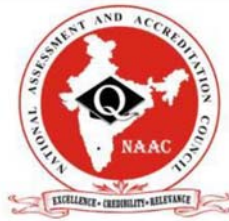


Self Study Report (SSR)

For NAAC Accreditation of

MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY

Submitted to



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

Submitted by



MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY

C-4, JANAKPURI , NEW DELHI-110058

Ph: 011-25528117, 25552667

Fax: 011-25528116

Contents

S.NO.	Self Study Report (SSR)	Page No.
1	Preface from Head of the Institution	
2	Executive Summary-The SWOC Analysis of the Institution	
3	Profile of the Affiliated College	
4	Criteria-wise Analytical Report	
	I. Curricular Aspects	
	II. Teaching-Learning and Evaluation	
	III. Research, Consultancy and Evaluation	
	IV. Infrastructure and Learning Resources	
	V. Student Support and Progression	
	VI. Governance, Leadership and Management	
	VII. Innovations and Best Practices	
5	Evaluative Report of the Departments	
	I. Computer Science and Engineering	
	II. Electronics and Communication Engineering	
	III. Information and Technology	
	IV. Electrical and Electronics Engineering	
6.	Declaration by Head of the Institute	
7.	Certificate of Compliance by Head of the Institute	
8.	Annexure	
	I. Extension of Approval for the Academic Year 2015-16 by AICTE	

EXECUTIVE SUMMARY

Maharaja Surajmal Institute of Technology (MSIT) was established by Surajmal Memorial Education Society in 2001 with the approval of AICTE and affiliation of Guru Gobind Singh Indraprasha University. MSIT is ideally located in the Institutional area of Janakpuri, New Delhi. The institute has a spacious seven storied building with built up area of 9660 sq.m with a campus spread over eight acres of land along with beautiful eco-friendly surroundings. The institute has, over a short span of time, acquired and developed impressive infrastructure, expertise and resources for imparting high quality engineering education. It is an ISO 9001:2008 certified institute and is bestowed with “Diamond Eye Award” for Quality & excellence in Education which speaks for its global recognition. It also bags TQM & TQCS Accreditation by OMAC, Paris.

MSIT started with four-year Engineering Degree programs in the following branches:

1. ECE (intake of 120 students)
2. CSE (intake of 120 students)
3. IT (intake of 60 students)
4. EEE (intake of 60 students)

In its glorious journey, today MSIT stands tall with successful addition of following four-year Engineering Degree programs in the second shift:

1. ECE (intake of 60 students)
2. CSE (intake of 60 students)
3. IT (intake of 60 students)

For over fifteen incredible years since its establishment, MSIT has been providing quality education to realize its vision to become one of the most admired centers of academic excellence in the field of Engineering & Technology for all-round professional development of students to enable them to meet the growing technological needs of the country. To substantiate its global recognition, MSIT has been awarded **“OUTSTANDING TECHNICAL INSTITUTION AWARD”** for the year 2014-15 by NITTTR under Ministry of HRD, Govt. of India and as **“Second Best College in GGSIPU”** in Dialogue India’s survey 2015. The institute has

developed a rich culture to recruit and retain best faculty from all over India. MSIT has well qualified and experienced faculties comprising of Professors, Associate Professor and Assistant Professors with teacher to student ratio as prescribed by AICTE norms. Prof. B.S. Panwar (Ex. Prof., Centre for Applied Research in Electronics, IIT Delhi) is presently heading the institute as Director General and Prof. K.P. Chaudhary (Ex. Chief Scientist & Head in Apex level Standard and Industrial Metrology, Vice-President Metrology Society of India) is presiding as the director of the institute. Eminent academicians and professionals are also invited to provide their valuable guidance to the students and faculty members as well. Faculty members are motivated and supported for research work for their continuous professional and personal growth. Apart from this, MSIT is a proud member of three IEEE chapters- IEEE MSIT Microwave Theory and Technique Society (MTT-s), IEEE MSIT Power and Energy Society (PES), IEEE MSIT Computer Society (CS) which were opened to promote specialized education and awareness amongst the students. **Prakriti**, the eco club of MSIT, was founded on 3rd March, 2010, in the wake of need for a college society that aims at promoting and increasing environmental consciousness, awareness and responsibility amongst the college youth and the populace.

Prakriti also supports and strengthen NGOs (such as Goonj) and rural or urban communities (like Lions' Club) that work towards betterment of the society. Technical society "**Technocratz**" and MSIT Quiz society provides opportunities to the students to explore the world of technology and discuss their problems and possible solutions.

Society and Governing Body

Inspired by the life and ideas of Maharaja Surajmal, a great Indian patriot and enlightened ruler of Bharatpur during the eighteenth century, Surajmal Memorial Education Society (SMES), under the chairmanship of Shri Birjender Singh (Maharaja of Bharatpur), started its journey in 1972 and was registered under Societies Registration Act 1860 with the aim to disseminate quality education in the technical and professional areas, especially to the students from rural and hitherto educationally deprived regions of our country. SMES has been successfully running various premier schools and technical and professional institutions like Maharaja Surajmal Institute, Maharaja Surajmal Institute of Technology, Maharaja Surajmal School and Maharani

Kishori Devi Girl's School. Apart from this, the Research and Publication Centre of SMES has already proved their devotion and dedication for research by publishing over a dozen publications along with various seminars, conferences and workshops. The society is conscious of its social responsibilities and is voluntarily in practice of organizing three week intensive education camp for students of 11th and 12th class from the rural areas who have scored more than 60% marks in the previous examinations bearing all the expenses on boarding and lodging of the students for whole duration of the camp every year. The governing body headed by chairman, Shri S. P. Singh and comprises of 12 members including Shri Raj Singh Gahlot, Representative of industry, Prof. Asok De, Nominee of the Govt. of Delhi and teacher's representatives. Advisory board of MSIT comprises members from various reputed institutions and industry like IIT Delhi, Jamia Millia Islamia and Kudale Instruments Pvt. Ltd. Pune.

Infrastructure

The infrastructure consists of well lit lecture halls, fully furnished labs, seminar halls, staff rooms, a large size play ground etc. The institute has fully air-conditioned auditorium with a seating capacity of over 550 persons and four Seminar halls with well-equipped modern audio-visual equipment, including LCD projectors. The Maharaja Mahendra Pratap Hostel provides accommodation to 250 students including 100 girls in a spacious and elegant four-storied building with all connected facilities. MSIT building is Wi-Fi enabled and also has an impressive dedicated internet bandwidth of 50 Mbps The institute also has smart class rooms with audio visual aids for efficient teaching-learning process. The theoretical knowledge is supplemented by providing hands-on experience to the students through practical experiments conducted in various laboratories. Modern and air-conditioned networked computers labs cover entire range of Computer Science & IT subjects like Software Engg., Network Technology, Mobile Computing, Artificial Intelligence & Robotics, Computer Graphics, Compiler Construction, Analysis & Design of Algorithms, Interface Programming, Data Structure, DBMS & Object Oriented Programming. All labs have licensed software such as Visual Studio, .Net 2003, Auto Cad 2004, MS Office Professional 2003, Oracle 9i, TASM, Orcad, and Windows XP. The software is updated and upgraded frequently as per the requirements and demands of the training. High speed, around-the-clock internet access using a radio link is also available. Students are offered real software projects relating to the current industry requirements to facilitate smooth transition

from academics to industrial environment. Electronics & Communication engineering department has eight modern laboratories including Analog Electronics Lab, Microwave Engineering, Communication Systems, Control Engineering Lab, Microwave Devices, Microprocessors and Microcontrollers lab, Switching Theory and Logic Design, Electronic Devices, VLSI and Digital Signal Processing Lab. Adequate number of licenses of MATLAB including several tool boxes and Tanner tools are available to give the students a clear insight of design and development processes. Faculty is supported by a well trained technical staff. A full backup power supply, round the clock, is available in the campus. The central library, spreading over 754sq. mtr, is fully computerized and Wi-Fi enabled. It houses a huge collection of over 50,000 books and numerous referred international and national journals to aid teaching learning process. The book bank facility caters to the academic needs of the students by lending them course text books for every academic year. Understanding the importance of sports in a life of students, apart from studies, institute provides facilities for various indoor and outdoor games such as football, badminton, volleyball carom, table tennis chess etc.

Teaching Methodology

The institute has a well qualified, dedicated and experienced faculty. The most contemporary teaching methodologies at MSIT provide ample opportunities for students to develop into all round professionals by keeping abreast of the ever changing technologies. The Institute aims to achieve and excel the high standards set by premiere technical institutions of the country. The traditional classroom teaching is supplemented by regular tests, tutorials, group discussions, extensive lab work, projects, seminars and industrial exposure by way of industry visits and summer training. While teaching engineering fundamentals and keeping pace with the evolving definitions and concepts, a sincere effort is also made to cover the latest innovations in each subject area. The classroom atmosphere is synergetic with interactive and participative sessions. This makes learning proactive and instills in the students a sense of team spirit, responsibility and professional integrity. It helps in building a healthy student-faculty bond, which develops students to their fullest potential and harnesses the best in the teachers.

Placement Department

There is an active placement department headed by Prof. Ashok Oberoi (Director Placements, SMES) in the campus which is putting in all the efforts in organizing various placement activities throughout the academic year. With excellent placement records, students are given wonderful opportunities to work with various companies of repute like Microsoft, Infosys, Accenture, Mu-Sigma, Compro etc. with handsome packages. Best faculty is deployed to keep constant vigil on the performance of the students to ensure that our students work towards academic excellence. To introduce the students to the environment of industry, they undergo industrial training as part of their curriculum. Special sessions are conducted on regular basis to brush up their technical skills and much aptly communication skills. Prof. Ashok played a leading role in getting the **National Employability Award** for the campus for being amongst the top 10% engineering colleges of India.

SWOC ANALYSIS OF THE INSTITUTION

STRENGTHS

- The institute is ISO 9001:2008 certified.
- First among the affiliated institutes of GGSIPU to implement sixth pay commission scale.
- Enviable position among affiliated engineering institutes of GGSIPU. The institute is one of the most sought after institutes in GGSIPU, with its seats filled up during third day of single counseling for admission to B.Tech. programmes conducted by GGSIPU.
- Excellent placement records.
- Healthy student teacher ratio (STR).
- Eco- friendly and amicable working atmosphere, good infrastructure.
- Experienced, dedicated and highly qualified faculty members.
- Air-conditioned seminar Halls, fully equipped with state-of-art audio-visual devices.
- Well maintained state of art laboratories.
- High speed internet facility i.e. 100 Mbps with Wi-Fi is accessible for students and staff.
- Constant encouragement given for faculty members in pursuing research leading to PhD.
- Well stacked library with good number of national and international journals.
- Recipient of 'OUTSTANDING TECHNICAL INSTITUTION' award by the National Institute of Technical Training and Research (NITTTR) based on our performance during the year 2014-15.
- Since its inception in the year 2001 with an intake of only 180 students, the institute has acquired 360 student's absorption in morning shift and 180 in that of evening shift.
- Centrally located in the institutional area of Janakpuri, New Delhi.

WEAKNESSES

- R&D and Consultancy work in collaboration with national agencies and industries as resource of funding need to be improved.
- Lack of international student attraction.
- Affiliated university curriculum is fixed and not Industry oriented.
- Lack of support for international collaboration.
- Few numbers of patents.

OPPORTUNITIES

- Institute Collaboration with reputed and foreign universities for student-faculty exchange program.

- Industry-Institute interaction in R&D projects funded by Industry and Govt. Organizations.
- Developing more Certificate program, Carrier building sessions, Counseling sessions Skill- Upgradation and Value Added Courses for empowering students.
- Expand the range of programs which would add into the growth and recognition of the Institute.
- Developing the placement opportunities for students in core companies.

CHALLENGES

- Growing competition from other colleges and universities.
- Coping up with rapid change in Industry.
- Lack of academic autonomy especially in the curriculum and syllabus design. Therefore, need a dynamic curriculum that easily adapts to new technology.
- Better placements in terms of overall package offered to the students.
- Government regulations with regard to fee structure for students.
- Recruiting and retaining talented faculty members.
- Maintaining the quality of education offered by the Institute.
- Coping with growing emotional and psychological needs of students.
- Changing social, political and economic scenario leading to unpredictable future.

SECTION B: PREPARATION OF SELF-STUDY REPORT

1. Profile of the Affiliated / Constituent College

1. Name and Address of the College:

Name :	Maharaja Surajmal Institute of Technology		
Address :	C-4, Janak Puri, New Delhi		
City :New Delhi	Pin :110058	State :Delhi	
Website :	www.msit.in		

2. For communication :

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal/Director	Prof. K.P. Chaudhary	O: 011-25528117	9871213638	011-25528116	director@msit.in
Vice Principal/Deputy Director	Prof. Poonam Bansal		9810264640		pbansal89@gmail.com
Steering Committee Co-coordinators	1. Mr. Tajinder Singh Arora		9818671663		tajarora@msit.in
	2. Mr. Sunil Gupta	9654096530	sunil.gupta_eee@msit.in		

3. Status of the Institution:

Affiliated College

Constituent College

Any other (specify)

✓

4. Type of Institution:

a. By Gender

i. For Men

ii. For Women

iii. Co-education

✓

b. By Shift

i. Regular

ii. Day

iii. Evening

✓

5. It is a recognized minority institution?

Yes

No

√

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence. **Not Applicable**

6. Sources of funding:

Government

Grant-in-aid

Self-financing

Any other

√

7. a. Date of establishment of the college: **(29/06/2001)**

b. University to which the college is affiliated /or which governs the college (If it is a constituent college)

Guru Gobind Singh Indraprastha University , New Delhi
--

c. Details of UGC recognition: **NIL**

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks(If any)
i. 2(f)	Nil	Nil
ii. 12(B)	Nil	Nil

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section/ clause	Recognition/Approval details Institution/Department Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i.	AICTE Approval letter No. F.No. North-West/1- 2813826661/2016/EOA	05-04-2016	One Year	Every year approval has to be renewed with AICTE

(Enclose the recognition/approval letter) **Refer Annexure -A**

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes No

If yes, has the College applied for availing the autonomous status?

Yes No

9. Is the college recognized

a. by UGC as a College with Potential for Excellence (CPE)?

Yes No

If yes, date of recognition: - - - - - (dd/mm/yyyy)

b. for its performance by any other governmental agency?

Yes No

If yes, Name of the agency "Outstanding Institution Award" by National Institute of Technical Training and Research, Chandigarh and

Date of recognition: **7/09/2015**

10. Location of the campus and area in sq.mts:

Location *	
Campus area in sq. mts.	7.94 Acres (32132.04 sq. mts.)
Built up area in sq. mts.	17837 sq. mts.

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex with infrastructural facilities **Yes**
01 Auditorium with 540 seating capacity and audio-visual facilities
04 Seminar Halls with 120 seating capacity and audio-visual facilities
- Sports facilities
 - * play ground **Yes**
 - * swimming pool **No**
 - gymnasium **No**
 - Hostel
 - * Boys' hostel **Yes**
 - i. Number of hostels **01**
 - ii. Number of inmates **134**
 - iii. Facilities (mention available facilities): **Solar water heater, Wi-Fi connectivity, Recreation Room**
 - * Girls' hostel **Yes**

- i. Number of hostels **01**
- ii. Number of inmates **106**
- i. Facilities (mention available facilities) **Solar water heater, Wi-Fi connectivity, Recreation Room**

* Working women's hostel **NO**

- ii. Number of inmates
- iii. Facilities (mention available facilities):

- Residential facilities for teaching and non-teaching staff (give numbers available - cadre wise) **07 Staff quarters and 06 guest rooms are available**
- Cafeteria- **Available**
- Health centre - **Available**

First aid, Inpatient, Outpatient, Emergency care facility, Ambulance... Health centre staff -

Qualified doctor	Full time	<input type="text"/>	Part-time	<input type="text"/>
Qualified Nurse	Full time	<input type="text"/>	Part-time	<input type="text"/>

First aid facility at hostel available, Dispensary in front of MSIT gate available, Inpatient, Outpatient and Emergency care facility at Super specialty Hospital (Janak Puri) available within 200 m reach, Ambulance facility at Deen Dayal Upadhyay Hospital (Hari Nagar) available within 3 km.

- Facilities like banking, post office, book shops

Indian Overseas Bank –	Available within Campus
ATM	Available just outside the campus
Stationary Shop	Available just outside the campus
Post Office	Available just in front of the college gate

- Transport facilities to cater to the needs of students and staff **Not Applicable**

Campus is within a heart of a city and is well connected by public transportation like Delhi Metro, Bus, and Auto-Rickshaw etc.

- Animal house **Not Applicable**
- Biological waste disposal **Not Applicable**
- Generator or other facility for management/regulation of electricity and voltage: **Yes Available (250KVA Capacity)**
- Solid waste management facility **Available**
- Waste water management **Available**
- Water harvesting **Available**

12. Details of programmes offered by the college (Give data for current academic year)

Sl. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
	Under-Graduate	B.Tech Computer Science & Engg.	04 years	10+2	English	180	182
		B.Tech Electronics & Communication Engg.	04 years	10+2	English	180	180
		B.Tech Information Technology Engg.	04 years	10+2	English	120	120
		B.Tech Electrical & Electronics Engg	04 years	10+2	English	60	62
	Post-Graduate	Nil					
	Integrated Programmes PG	Nil					
	Ph.D.	Nil					
	M. Phil.	Nil					
	Ph.D	Nil					
	Certificae courses	Nil					
	UG Diploma	Nil					
	PG Diploma	Nil					
	Any Other (specify and provide details)	Nil					

13. Does the college offer self-financed Programmes?

Yes No

If yes, how many? **01 (B. Tech programme for 4 courses)**

14. New programmes introduced in the college during the last five years if any?

Yes		No	<input checked="" type="checkbox"/>	Number	
-----	--	----	-------------------------------------	--------	--

Sanctioned by the Management/ society or other authorized bodies	03	01	02	05	32	82	13** **Lab Attendants	Nil	20	06
Recruited	03	01	02	05	32	82	13**	Nil	20	06
<i>Yet to recruit</i>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

*M-Male *F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.							
Ph.D.	03	01	02	05	05	12	28
M.Phil.							
PG					27	70	97
Temporary teachers							
Ph.D.							
M.Phil.							
PG							
Part-time teachers							
Ph.D.							
M.Phil.							
PG							

22. Number of Visiting Faculty /Guest Faculty engaged with the College.

23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	Year 1 (2012)		Year 2 (2013)		Year 3 (2014)		Year 4 (2015)	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	67	18	57	18	65	23	60	13
ST	05	01	03	02	05	04	08	01
OBC	Nil	Nil	01	01	07	01	15	01
General	371	55	364	80	331	78	361	76
Others	17	05	09	04	3	11	03	Nil

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	485				
Students from other states of India	53				
NRI students	Nil				
Foreign students	Nil				
Total	538				

25. Dropout rate in UG and PG (average of the last twobatches)

UG PG

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) including the salary component

Rs. 70,099/-

(b) excluding the salary component

Rs.17962/-

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes No

28. Provide Teacher-student ratio for each of the programme/course offered

S. No	Department	Student Teacher Ratio
1	CSE	19.95
2	ECE	15.70
3	IT	20.15
4	EEE	14.30

29. Is the college applying for

Accreditation: Cycle 1 Cycle 2 Cycle 3 Cycle 4

Re-Assessment:

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re- accreditation)

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Not Applicable

Cycle 1: - - - - - (dd/mm/yyyy) Accreditation Outcome/Result..... Cycle 2:
- - - - - (dd/mm/yyyy) Accreditation Outcome/Result..... Cycle 3: - - - - -
(dd/mm/yyyy) Accreditation Outcome/Result.....

** Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.*

31. Number of working days during the last academic year.

42 weeks of working duration as per academic calendar of GGSIP University.

32. Number of teaching days during the last academic year

28 weeks of teaching duration excluding class tests as per academic calendar of GGSIP University.

(Teaching days means days on which lectures were engaged excluding the examination days)

33. Date of establishment of Internal Quality Assurance Cell (IQAC) IQAC

03/08/2011

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

Not Applicable

AQAR (i) - - - - - (dd/mm/yyyy)

AQAR (ii) - - - - - (dd/mm/yyyy)

AQAR (iii) - - - - - (dd/mm/yyyy)

AQAR (iv) - - - - - (dd/mm/yyyy)

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

Maharaja Surajmal Institute of Technology was established by Surajmal Memorial Education Society in 2001 with the approval of AICTE and is affiliated to Guru Gobind Singh Indraprastha University (GGSIPO), New Delhi. The Vision and mission of the Institute is stated below:

VISION

To become one of the most admired centers of academic excellence in the field of Engineering & Technology for all-round professional development of students to enable them to meet the growing technological needs of the country.

MISSION

Developing new paradigm in imparting education in the fields of Engineering and Technology and to imbibe national values leading to student's empowerment, with a view to prepare them to meet the national and global challenges.

The Institute is realizing its vision and mission by assuring quality service to all its stakeholders, parents, students, alumni, employees, employers and the community and is also certified by ISO 9001:2008 with the following quality policy:

QUALITY POLICY

The quality policy of Maharaja Surajmal Institute of Technology is to achieve the highest standards in academics, research and industry academia interaction.

This is achieved by:

- Implementing quality system and processes with provisions of constructive feedback and continual improvement.
- Networking with leading business, industry and research organizations culminating in holding seminars/workshops at National and International levels and enhancing the research publication.
- Fostering culture for doing creative and innovative work.
- Being consistent, reliable and sincere in all our system and processes.
- Providing state-of –the –art infrastructure and required amenities conducive for teaching, research and industrial applications.
- Enhancing the competence of faculty to a high level and to make them adopt latest and innovative methods in teaching-learning process.
- Inculcating moral and ethical values among students and staff.
- Aspiring and endeavoring towards making the institution an “Institution of excellence” and a benchmark for others to follow.

COMMUNICATION TO THE DIFFERENT STAKEHOLDER

The college had formally published its mission and vision in year 2001 and quality policy in 2012. Different stakeholders like faculty, students, staff and parents are communicated through various means such as

- Through Institute website: www.msit.in

- Through display boards at prominent areas like reception, canteen, central library and seminar hall, Head of Department (HOD), director and president's room etc.
- Through admission brochures, newsletter, SATYAM (research journal of college), annual magazine etc.
- Through orientation program and parents-teachers (PTM) meeting.

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).

- Since the Institute is affiliated to GGSIPU, it follows the academic calendar and curriculum prescribed by the university.
- The Institute develops action plans against the objective and targets as per ISO for effective implementation of the curriculum prescribed by GGSIPU in the beginning of the academic year with the consultation of head of different departments, academic dean and director.
- The seminars, Faculty Development Program (FDP), workshop, industrial visit, cultural and technical events, and internal quality assessments are planned in the academic calendar and are monitored by IQAC and higher authorities.
- The Time Table for the whole semester is prepared in advance and monitored by head of departments and Director for effective implementation.
- Subject allocation to faculty is done keeping in mind various factors like specialization in subject, year of experience and their willingness.
- All departments of the Institute have set Vision and Mission department-wise which are aligned with the Vision and Mission of the College. Program Educational Objectives (PEO) and Program

Outcomes (PO) are scripted for each program and Course Objectives (CO) and Course Outcomes are defined for each course -theory as well as for lab.

- Every faculty maintains course files of their respective subjects and is further reviewed / approved on a continuous basis by the HOD and director. Contents of course file are as follows:
 - Vision of department
 - Mission of department
 - Programme Outcomes (PO)
 - Programme Educational Objectives (PEO's)
 - Academic Calendar
 - Time Table
 - Copy of Syllabus
 - Teaching Process
 - List of students
 - List of ICT used
 - Lesson Planning
 - Attendance Register
 - Course performance sheet
 - List of Academically week students
 - Corrective actions on the academically week students
 - Students feedback
 - Analysis of Students feedback
 - Class Notes
 - Assignment sheets
 - Tutorial sheets
 - Previous question papers

- Apart from traditional chalk and talk methods faculty is encouraged to impart the curriculum through innovative teaching and learning systems such as power point presentations, assignments, class quizzes, seminars, tutorials and surprise test, which help the students to achieve their academic goals.
- The regular departmental, student–mentor, HODs, parent-teacher meetings helps in taking suitable measures for the effective implementation of the academic process.
- The syllabus, lecture plan, previous year question papers, tutorial sheets, lecture notes, power point presentations, and video lectures for courses are provided on MOODLE which are downloadable/ accessible to students.
- The progress of syllabus coverage is monitored periodically by IQAC.
- Periodical feedback from students is collected and analyzed for necessary action to improve teaching learning process.
- Teacher diary are maintained by each faculty and monitored by HODs periodically.
- In addition to the course content as mentioned in the course plan, students are encouraged to participate in different co-curricular, technical events for overall development. Special guest lecture, talk by eminent personalities, workshops, lecture series on famous personalities and hands on series are conducted from time to time by each department.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

- The Institute encourages its faculty to participate in the orientation/ refresher courses/ workshops/ seminars/ training and skill up-

gradation programmes on latest technologies and emerging areas to update the knowledge and to improve the teaching practices.

- The Institute also has provision of reimbursement of registration fee and TA / DA expenses for participation in conferences / seminars / workshops, etc.
- Ten Special Casual leaves (SCL) in a year are provided for attending conference/FDP/seminar/for meeting guide.
- The Institute also provides study leave for doing PhD/course work.
- Existence of awards like Best Teacher/Appreciation, to motivate and recognize faculty's contribution.
- Every department of the Institute regularly organizes FDP/ expert lecture/workshops on latest emerging areas inside and outside of curriculum, so that they can reach out to the students with competency.(Annexure 1.1 attached)
- The Institute also provides teaching and reference material like computing facility to individual teacher (Desktops & Internet), Journals, Magazines, EDUSET lab and software to enable its faculty to ensure effective delivery of curriculum.
- The Institute has a well-stocked fully computerized library with latest editions of books by eminent authors and is having a huge collection of books on education, management, computer science, engineering, pharmacy, science and humanities to cater to the needs and requirements of the faculty as well as students.
- In academic year 2015-16 , the Institute has

Number of titles : 7355

Total volumes of Books : 56518

Number of Journals :

E-Journals : 9242

E-Books : 363

Printed Journals : Indian (65)
: International (19)

(Annexure 1.3 attached)

- Every department of the Institute has its own departmental library apart from the central library resources.
- Institute publishes its own bi-annual Journal named as “**Satyam – MSIT Journal of Research**” with ISSN No-2319-7897. The journal provides wide research range to the authors. Faculty and students are encouraged and motivated to pursue research work and publish their papers in this journal.
- Faculty is also supported by efficient technical staff for effectively translating the curriculum and improving teaching practices.

1.1.4. Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

The Institute takes various measures for effective curriculum delivery, some are:

- The Institute schedules the academic calendar well in advance at the start of the year with ample time frame for not only the regular teaching –learning process, but also to accommodate the various events like seminar/ guest lecture/ workshops/ FDP’s/ Hands-on-series and many more.
- The Institute has developed a rich culture to recruit and retain best faculty from all over India. The Institute has 137 experienced and qualified full time faculty members comprising of Professors, Associate professors and Assistant Professors. The teacher student ratio is as per the norms prescribed by AICTE.

- The Institute has well equipped laboratories to fulfill the requirement of the curriculum. These are periodically reviewed by IQAC and HODs for necessary up-gradation and changes according to curriculum.
- Availability of book bank facility for all students. Students can avail book bank facility which was initiated during 2006-2007. All the students joining the Institute are given a set of text books every year. This has come as a boon to the students as they do not have to buy expensive books for their academic preparations.
- The Institute has subscription to many reputed online journals, EDUSET lab, NPTEL apart from the facilities of video lectures and high speed internet for lecture/course material preparation by each faculty.
- All the departments are provided with modern teaching facilities like classrooms with projectors, seminar hall etc.
- Wi-Fi and high connectivity internet facilities are enabled in the campus for students, faculty and staff members.
- Periodical assessment by IQAC cell ensures coverage of topics as per syllabus and teaching schedule.
- Preparing the course plan with details of number of lectures to be delivered on each unit of the curriculum.
- In every program, course coordinators define course objective, course outcome according to Program Educational Objectives (PEO's) and Program Outcome (PO's) which is again approved by Module Coordinator.
- Eminent academicians are periodically invited for delivering lectures in the seminars and conferences.
- A robust power supply backup is available for the campus round the clock.

- The Institute has a well-stocked, fully computerized library with a huge collection of books on education, management, computer science, engineering, pharmacy, science and humanities apart from the latest editions of books by eminent authors to cater to the needs of the faculty as well as students.
- Students are offered real software projects relating to the current industry requirements to facilitate smooth transition from academics to industrial environment.
- Eminent academician and professional are also invited as visiting faculty to teach and guide specific courses.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?

- The main stakeholders of the Institute are students, parents and staff and the chief beneficiaries are the software and core industries, Research Organizations, Government Organizations and various Public enterprises.
- Eminent personalities from industries / renowned academic institutions are invited to be members of Governing Body and Advisory Committee of the college. The Governing body meets twice a year to discuss in detail the curriculum delivery, value additions to prescribed syllabus and content beyond syllabus to enhance the employability of the students.
- The faculty members are encouraged to submit research proposals to various government research organizations/public and private sectors to receive the research grants and promote research activities in the departments.

- Seminar/ expert lectures /workshops/hands on series are arranged by tying up with the industries/research organizations on the latest trends and growing needs of market.
- Faculty members are encouraged to be a member of the professional bodies like IEEE, IETE, CSI, and ISTE. They are motivated to attend the conferences which help them in effective operationalization of curriculum.
- The faculty members of the Institute keep regularly in touch with their counterparts at the affiliating university. Some of the faculty members are also functioning as course coordinators of different subjects.
- Professors/ eminent personalities from the reputed universities are also invited to the college from time to time to give seminars and talks to the faculty members.
- The various suggestions proposed are analyzed by the Academic Committee and Governing Body of the Institute and the approved suggestions are conveyed to the affiliating University through communications by the head of the institution.
- Students are motivated to do research projects in collaboration with faculty members and whatever they require for the research projects is fulfilled by the institute from time to time; reimbursement of paper publication fee is one such example.

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University?(number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.

- Prof. A.K Singh, HOD in Department of Applied Science was Member of School Research Committee (SRC) for University School of Engineering & Technology from 30-3-15 to 02-03-016.
- The following faculty members of the Institute are recognized supervisor for Ph.D programme of GGSIPU as on date 04/04/16.

S.No	Name of Faculty	Email.Id	Subject
1.	Prof. Poonam Bansal	pbansal89@yahoo.co.in	Speech Technology
2.	Prof. A.K.Singh	aksinghphd@yahoo.com	Applied Nuclear Physics, Non-linear waves and solutions in Plasmas
3.	Dr. Sheela Devi	physics.sheela@gmail.com	Material Science (Ferroelectric ceramics)
4.	Dr. MeenaTushir	meenatushir@yahoo.com	Control, Soft computing
5	Dr. Puneet Azad	puneet_azad@yahoo.com	Wireless Sensor Networks
6.	Dr. Suman Mann	sumanmann2007@gmail.com	Computer Science

- The curriculum design and development process is carried out by the affiliating university based on the needs of the society. However, some of the faculty members are part of syllabus designing. List is as follows

S.no	Name of Faculty	Subject	Responsibility
1.	Prof. A.K.Singh	Syllabus revision for all First Year Subjects	Member
2.	Dr. Poonam Bansal	Advanced DBMS	Coordinator
		Object oriented Software Engineering	Convener
3	Dr. Meena Tushir	Neuro and Fuzzy System	Coordinator
4.	Ms. Shalu Mehta	Natural Language Processing	Member
5.	Ms. Geetika Dhand	Cloud Computing	Member
6.	Dr. Puneet Azad	Electronic Devices	Member
7.	Mr. Deepak Goyal	Electronic Devices	Member
8.	Prof. M Bagchi	Communication and Digital Signal Processing	Member

- The Institute collects regular feedback from all its stake holders, viz., students, parents, faculty, recruiters etc. The suggestions proposed are analyzed and the recommendations are communicated to the affiliating University on regular basis for implementation in the curriculum.
- From the Institute, each semester faculty gets appointed as subject coordinators by the affiliating university. They are responsible for preparing question papers for sessional exams. **(Annexure 1.2 attached).**
- Institute also participates in organizing B.Tech Major Project competition in various disciplines where future engineer come forward and put forth their ideas and display their talent. Various major project competition conducted by the Institute in during last two years are:

INTER COLLEGE B.TECH MAJOR PROJECT COMPETITION			
S.No	Date/Year	Conducted by	Responsibility
1	May 18, 2016	Computer Science & Engineering Department	Local Host for CSE Discipline
2	May 25, 2015	Computer Science & Engineering Department	Local Host for CSE Discipline
3	May 22, 2014	Electronics & Communication Engineering Department	Local host for ECE discipline as well as overall co-coordinator of all discipline

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If “yes”, give details on the process (“Needs Assessment”, design, development and planning) and the courses for which the curriculum has been developed.

NO

1.1.8 How does institution analyse /ensure that the stated objectives of curriculum are achieved in the course of implementation?

- At the beginning of the course the outcome of the course are explained to the students by the concerned faculty. The same are tried to be achieved by means of effective implementation of syllabus.
- Institute has internal quality assessment cell (IQAC) which collects information about coverage of syllabus, number of assignments given, assignments checked, lab experiment done in lab and action taken and deviation in syllabus coverage, if any.
- The important bodies of the Institute such as governing body and academic committees periodically review the performance of faculty and students to ascertain the deviation, if any, from the proposed objectives and to suggest corrective measures for improvement.
- Result analysis of internal examination and university examination in comparison with other Institutes are conducted on regular basis.
- Top ten and bottom ten students are identified in the starting of semester and remedial action is taken to ensure proper curriculum delivery to weak students.
- The Institute ensures the successful completion of curriculum prescribed by the GGSIPU by conducting departmental audit, IQAC and academic audit.

- The Institute has a structured feedback mechanism to obtain information from students on the performance of the faculty members. Feedback is received periodically through an interactive system and mentor-student meetings. Feedback from parents is gathered during PTM / orientation programme while feedback of the industry personnel is obtained during their visits. All types of feedback are conveyed to the relevant authorities through proper channel.

1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the certificate/diploma/skill development courses etc., offered by the institution.

The main objective of certificate/diploma/skill development courses is to encourage the students to enrich the knowledge and to fill the gap between industry and academia to meet their future employability needs. Therefore, Maharaja Surajmal Institute of Technology organizes various training and skill up-gradation programme on regular basis to provide the required platform to faculty and students. Some of the initiative details are:

- As per GGSIPU syllabus, a 4 weeks industrial training is one of the core courses after 4th and 6th semester. As Institute better know future employability needs of student, Maharaja Surajmal Institute of Technology organizes training courses for the students in college campus itself. The topic/area for such training courses is finalized by faculty members under the supervision of senior faculty members. Details of in house training held in academic year 2015-16 are :

S. No	Conducted by	Area/Topic	Target Students	Dates
1.	OSAHUB Pvt.Ltd	<ul style="list-style-type: none"> ▪ Core and Advanced JAVA ▪ C++ ▪ Cloud computing with Advanced JAVA ▪ Android development with JAVA 	CSE/IT	15 th June-30 th July 2015
2.	D-KOP Labs Pvt ltd	<ul style="list-style-type: none"> ▪ VLSI Design 	ECE	15 th June-30 th July 2015

- Institute recognizes the significance of communication skills and interpersonal skills for the overall development of students. In order to equip them for the challenges of job search and placement, Institute has started compulsory course of communication skills for 6th semester students in all departments.
- ECE Department in association with D-KOP Labs Pvt. Ltd. offers Engineering Employability Enhancement Program (E3P) for the students in area of Digital System Design using System Verilog. Goals and objective of this course is finalized by head of department in association with D-KOP Labs Pvt. Ltd.
- Various Student Interest Group (SIGs) of IEEE Student Chapters of Maharaja Surajmal Institute of Technology conduct workshops on

various topics to help other students in skill enhancement. Some of the SIG in last three years are:

S.no	Year	SIG Name and Objective
1	2015-16	<p>1) Electronics & Robotics: Students were taught about the basics of AVR Microcontrollers and some basic concepts of robotics. Most of the attendees went for different competitions in Delhi NCR. SIG Heads: Sumit Mittal, Abhishek Sharma, Mridul Gupta SIG Coordinators: Aakash Bansal, Aman Gupta.</p> <p>2) Competitive Programming: Students learnt about the different techniques used while participating in different programming challenges. SIG Head: Prateek SIG Coordinator: Manoj Pandey</p> <p>3) deSIGn: Students were invited to learn Adobe Photoshop and other softwares for various digital designings. SIG Heads: Abhimanyu Dalal, Deepanshu Rathee</p>
2	2014-15	<p>1) Robotics SIG Heads- Sumit Mittal (ECE, 3rd Year)</p> <p>2) Competitive Programming</p>

		<p>3) Main aim of this SIG is to create interest of students in different techniques used while participating in different programming challenges. SIG Heads -Manoj Pandey (CSE, 2nd Year)</p> <p>4) Mastering App Development Main aim of this SIG is to create interest of the students towards App development and make them learn something interesting. SIG Heads -SauravDuggal (ECE, 3rd Year), Ujjwal Chadha (ECE, 3rd Year), Aman Arora (ECE, 3rd Year), PrateekHanda (IT, 3rd Year)</p> <p>5) design Students were invited to learn Adobe Photoshop and other softwares for various digital designings. SIG Heads - AnkitAttri, DeepanshuRathee, AbhimanyuDalal</p>
3	2013-14	1) Budding programmers and developers

		<p>This SIG develops innovative programming skills among students, learning programming languages, data structures & algorithms and work on freelance projects.</p> <p>SIG Heads : ShreyanshPatni, Sweta Sharma, KavitaBais</p> <p>2) After the big bang</p> <p>This SIG is based on radio astronomy and astrophysics. Students are taught astronomy and basic astrophysics and are made aware about the steps they can take to become amateur astronomers.</p> <p>SIG Heads: Anand PratapSingh,Sagar Gupta, VaibhavSapra, Tanuj Kumar Tiwari, AshutoshVaish.</p> <p>Coordinator: Harini</p> <p>3) IOE (Internet of Everything)</p> <p>The objective of this SIG is to provide Students with the basics of networking and make them learn something advanced and latest and also company specific</p> <p>SIG Heads: Prashant Babber , Sumit Jakhar</p>
--	--	--

		<p>4) ANDROID APP DEVELOPERS</p> <p>The objective of the SIG is to create interest of the students towards Google Android and make them learn something interesting and industry specific.</p> <p>5) deSIGn: The main objective of this deSIGn will be to train and equip the participants with tools, which will help them to survive in 21st century graphic wars. The focused software will be Adobe Photoshop, Illustrator (Vector designing) and InDesign.</p> <p>SIG Heads: Akansh Gulati, Mayank Bajaj</p>
--	--	---

1.2.2 Does the institution offer programmes that facilitate twinning /dual degree? If yes, give details.

As the Institute is affiliated to the Guru Gobind Singh Indraprastha University, Delhi, the university does not provide any such flexibility.

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

- **Range of Core / Elective options offered by the University and those opted by the college**

In order to incorporate flexibility the core and elective subjects are offered as per GGSIPU curriculum and the students have the flexibility to make a choice among the electives. Elective is floated if one-third of the total students opt for the same. Details of elective subject offered by various departments in last three year are

S.No	Year	Department	Elective Subject Name
1	2015-16	CSE	Soft Computing(ETCS-406) Network Security(ETIT-412) Compiler Construction (ETCS-407) Mobile Computing (ETEC-407) Requirement and Estimation Technique (ETCS-413)
		IT	Compiler Construction(ETCS-405) Mobile Computing (ETEC-407) Requirement and Estimation Technique (ETCS-413) Software Testing(ETIT-414)
		ECE	Consumer Electronics (ETEC-406) Mobile Computing (ETEC-407) Digital Image Processing(ETEC-411)
		EEE	Embedded System(ETEE-418) Electrical Energy Conservation (ETEE-421)

			Soft Computing(ETEE-423)
2	2014-15	CSE	Soft Computing(ETCS-406) Network Security(ETIT-412) Compiler Construction (ETCS-407) Mobile Computing (ETEC-407) E-Commerce and ERP(ETIT-410) Requirement and Estimation Technique (ETCS-413)
		IT	Soft Computing(ETCS-406) E-Commerce and ERP(ETIT-410) Software Testing(ETIT-414) Requirement and Estimation Technique (ETCS-413)
		ECE	Consumer Electronics(ETEC-406) VLSI Design (ETEC-409) Mobile Computing (ETEC-407) Power Electronics(ETEC-409) Digital Image Processing(ETEC-411)
		EEE	Embedded System(ETEE-418) Electrical Energy Conservation (ETEE-421) Soft Computing(ETEE-423) Non-Conventional Energy System (ETEE-413)
3		CSE	Soft Computing(ETCS-406)

			Network Security(ETIT-412) Compiler Construction (ETCS-407) Mobile Computing (ETEC-407) Requirement and Estimation Technique (ETCS-413) E-Commerce and ERP(ETIT-410)
	2013-14	IT	Requirement and Estimation Technique (ETCS-413) Mobile Computing (ETEC-407) Requirement and Estimation Technique (ETCS-413) Software Testing(ETIT-414) Soft computing(ETCS-406)
		ECE	VLSI Design (ETEC-409) Mobile Computing (ETEC-407) Digital Image Processing(ETEC-411)
		EEE	Soft Computing(ETEE-423) Embedded System(ETEE-418)

The Institute is flexible enough and allows its students in selecting their elective subjects, deciding minor and major projects, participation in technical and non-technical events, and in joining various technical/ non-technical societies.

Core option

The students must compulsorily register for all the core subjects as per the syllabus of the GGSIPU. The syllabus is designed by the university.

- **Choice based credit system and range of subject options**

NIL

- **Courses offered in modular form**

Institute offers no course in modular form and all the departments strictly follow the curriculum which is defined /designed by the GGSIPU

- **Credit transfer and accumulation facility**

NIL

- **Lateral and vertical mobility within and cross programme courses**

Institute follows eligibility conditions & admission criteria as per GGSIPU norms for lateral and vertical mobility within and cross programme courses.

- **Enrichment Courses**

All departments of Institute conduct technical/non-technical events, seminars, workshop, FDP's, expert lectures on latest topics to enhance the knowledge of the students and faculties. Additionally, Communication Skill classes are also conducted by dedicated faculty.

The institute also provides the students with a platform to do interdisciplinary activities in the form of IEEE MSIT student chapters, Google Developers Group, Techno-cratz, TED-X, Genesis, ENVA etc. Under these groups the students from different departments interacts with each other and conduct various activities.

1.2.4 Does the institution offer self-financed programmes? If ‘yes’, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

NO

1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If ‘yes’, provide details of such programme and the beneficiaries.

Institute does not offer any skill oriented programme. However, each department of the Institute conducts various workshops / seminar / expert lectures / training programs on regular basis to enhance employability skills and knowledge. Some of the information is already mentioned in 1.2.1. The main aim of these activities is to increase employability of students and to give ideas to work on different disciplines. Some of the activity details of year 2015-16 are mentioned in **Annexure 1.5**

1.2.6. Does the university provide the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/ combination of their choice? If yes how does the institution take advantage of such provision for the benefit of students?

NO, the Institute is affiliated to GGSIPU, Delhi which does not allow any distance mode flexibility.

1.3 Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University’s Curriculum to ensure that the academic programmes and Institution’s goals and objectives are integrated?

The Institute vowed to leave no stone unturned in supplementing the university's curriculum to realize the goals and objectives of the institution. Some of the efforts made by the Institute are:

- Well qualified and experienced faculty
- Library with digital facility as well as Book Bank facility for students
- High speed, round-the-clock Internet/Wi-Fi access
- NPTEL/ Online Videos
- Fully equipped laboratory facilities
- EDUSAT facility
- In- house Industrial Training for students
- Organizing Seminar/ workshops/ Hands-On/ Expert talk for student and faculty.
- Dedicated placement department in the campus which is putting in all-out efforts for organizing several placement activities throughout the academic year for students. Special session to hone up technical skills and much needed communication skills are conducted on a regular basis.
- Establishment of Personality Development Lab/ Soft skill development- to assist students in training soft skills a well-equipped language lab with Language software, Orell Digital language Lab (ODLL) with 30 user license is established by the institute.
- Organizing Industrial visit
- Providing all support/ research facility to faculty
- Organizing various training and skill up-gradation programmes to provide the required platform to faculty and students.

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

Being an affiliated institution of GGSIPU, Maharaja Surajmal Institute of Technology is bound to follow the guidelines prescribed by the university. However, the institution has provided many platforms for the students as well as for faculty to enrich their knowledge on emerging trends/topics which are required for the dynamic employment market as are already mentioned in 1.3.1. The Institute has effective feedback mechanism from alumni, and industry representative which is properly analysed /verified/inspected by academic and governing body on regular basis. Efficient measures are taken by Institute to incorporate feedback inputs for enhancing employability. Some of the efforts to enrich the program are:

- Compulsory Communication skill subject for third year students
- Organizing Seminar /Workshop/ Hands-On for student as well as faculty
- Encouraging student for participating in technical/non-technical events for overall development
- Implementing mentoring system to fill the gap between faculty and students where students are advised/ trained/ counseled to be groomed not only for current market/industry requirements but also for the society at large.
- Organizing various training and skill up-gradation programmes to provide the required platform to faculty & students.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

Maharaja Surajmal Institute of Technology is governed by Surajmal Memorial Education Society (SMES) which is established with an aim to disseminate quality education in the technical and professional areas, especially those students who are from hitherto educationally deprived regions of our country. The Institute has tried its best to address all these cross cutting issues:

Gender

All students are treated equally by the Institute management, administration and faculty irrespective of their gender and social status. Therefore, Institute has Sexual Harassment Committee under the command of Prof. (Dr.) Poonam Bansal. This committee provides an exclusive platform for women employees and girl students to share their grievances either in person or in writing.

The Institute campus is safe and provided with full CCTV coverage. Institute campus has separate hostel for both girls and boys which is comfortably furnished and make a good home away from home. Separate common rooms both for boys and girls are also available in the Institute campus.

Climate Change and Environmental Education

In addition to teaching a course on 'Environmental Studies', designed by GGSIPU, the students are educated about the society and environment. The Institute provides various means to educate or aware the students. Institute has dedicated environmental society named Prakriti, which is basically an ECO club of students that organizes many events and aims at promoting and increasing environmental consciousness, awareness and responsibility amongst the college youth and the populace.

As a non-profitable society, Prakriti is committed to the belief that solutions are more effective and enduring when they involve mass local participation in planning and implementing projects.

Prakriti also exists to support and strengthen NGOs (such as Goonj) and rural or urban communities (like Lions' Club) that work towards betterment of the society.

Human Rights

The Institution follows the policy of zero tolerance to ragging. Therefore, complying with the directives of the Hon'ble Supreme Court of India, the Institute has an anti-ragging committee for overseeing the implementation of the provisions of the Anti-Ragging verdict. The committee members for the academic year 2015-16 are:

S.No	Name of the member	Designation
1	Prof. K.P.Chaudhary	Director/Convenor
2	Dr. Man Singh	Member
3	Ms. Meena Rao	Member
4	Sh. Dinesh Sheoran	Member
5	Ms. Sapna Singh	Member
6	Sh. Sandeep Sheoran	Member
7	Sh. Manoj Malik	Member
8	Dr. RekhaTripathi	Member
9	Sh. Naveen Dahiya	Member
10	Sh. Parveen Kumar	Member
11	Ms. NishthaJatana	Member

The committee comprises of teaching faculty, administrators and women representatives who monitor the measures taken by the Institute for the prevention of ragging. The committee looks into the specific

instances of ragging and complaints of ragging; and suggests appropriate action / punishment against individuals who indulge in ragging.

Human Values and Professional Ethics is mandatory subject for students as per GGSIPU curriculum. Through this subject Institutes aims at helping the students not only to inculcate the skills of ethical decision making but also to apply these skills to tackle the current challenges of the engineering profession by understanding the need and importance of value-education and human rights within both the national and the global context.

Some of the events organized in the academic year 2015-16 are:

- TedX MSIT organised a TedX Event for first time in MSIT on 21st October 2015.
- MSIT organized a seminar on "Preamble of Constitution of India" on 26 November 2015.
- MSIT organized a lecture on Swami Vivekananda on 12th January 2016.
- Prakriti MSIT organized its annual fest ENVA on 3-4 February 2016.
- MSIT and MSI jointly organized a lecture on "Art of Living" on 5 March 2016.

ICT

Faculty members are encouraged to use effective delivery mechanism for lectures/education through power point presentation/ video lectures for making the class room teaching interactive and interesting. Class rooms with projectors, seminar halls with audio/video/PA system are available for all departments in Institute. NPTEL video lectures/EDUSET Lab is also available for student as well as for faculty. This year Institute has also introduced effective learning management system (<http://moodle.msit.in/>) which is a learning platform designed to

provide educators, administrators and learners with a single robust, secure and integrated system to create personalized learning environments.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

Value added courses/ enrichment programmes are offered by the department/ institution in addition to the prescribed university curriculum and syllabi for the holistic development of students as citizens.

LIST OF VALUE ADDED COURSES OFFERED:

Establishment of Language Lab

The Institute recognizes the significance of communication skills and interpersonal skills for the overall development of our students. In order to equip them for the challenges of job search and placement, Institute provide them with sufficient practice into various communication and employability skills. The Institute has a well-equipped language lab with Language software, Orell Digital language Lab (ODLL) with 30 user license to assist students in training soft skills.

Personality Development and Soft Skills

The personality development consists of evolution of excellent qualities of both of an engineer and a virtuous human being. In the Institute, various Personality Development activities are conducted throughout the year; these are:

- Mock Interviews
- Seminars/Workshops on Latest Technologies.
- Sessions for Resume Writing/GDs/Personal Interviews/ Vocabulary development
- Industrial Visits
- Students Chapters of IEEE/WIC/Computer Society/PES/MTTS

- GDG (Google Developers Group)
- ENVA/Prakriti Club
- Technocrat
- TED-X
- Avensis (Technical Fest)
- Genesis (Cultural Fest)
- Annual Sports Meet

Moral and Ethical Values

- Human Values and professional Ethics is compulsory subject for students.
- Organizing lecture series on Ram NiwasMirdhaji every year and inviting eminent personality for delivering lectures on human values, social issues etc.
- Organizing Art of Living Course for faculty and students.

Some of the events organized in this academic year are

- Institute organized a seminar on "Preamble of Constitution of India" on 26 November 2015.
- Institute organized a lecture on Swami Vivekananda on 12th January 2016.

Community Orientation

Some of the events which are regularly conducted by the institute are:

- Every year Maharaja Surajmal Institute of Technology co-ordinates “**Talent Development Camp**” that was started in year 1999.It includes a three week intensive education camp for students of 11th and 12th class from the rural areas who have scored more than 60% marks in the previous examinations. The society bears all the expenses on boarding and lodging of the students for whole duration of the camp. The sixteenth camp was organized during June 2014.
- Blood donation camp

- Tree plantation
- NSS camp for first year
- Winter Cloth collection and donation.

Better career options

- Institute organizes various training and skill up-gradation programmes to provide the required platform to faculty & students.(as mentioned in 1.2.5)
- Various multidisciplinary, advanced technologies, industry relevant training programmes are conducted by departments in collaboration with industries.

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

Feedback from different stakeholders are collected and analyzed by Institute and necessary actions are taken. Based on Industry feedback emphasizing the importance of communication skills in market, a dedicated language lab was established; extra communication class for sixth semester students is also a step in the same direction.

Different feedbacks taken from different stakeholders are:

- Student feedback
- Theory/lab course exit survey
- College passout feedback
- Alumni feedback
- Feedback of seminar/workshop/conference/ FDP's conducted/ attended by the Institute

(Annexure 1.4 attached)

These feedbacks are properly analyzed and become the basis of conducting seminars/workshops/hands-on-series on different areas/fields. Also, Institute takes necessary steps towards the

development of students as well as faculty for realizing its mission and vision.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

The Institute constantly interacts with various stakeholders such as alumni, industry, employers, research agencies, parents, faculty members, university, etc., from time to time on various aspects namely curriculum, academic improvements, infrastructure, support facilities, etc. Feedback from the Faculty (Based on interaction with the faculty on parameters such as salary, leaves, research facilities, recognition of their contribution, their respect, promotions and overall academic environment) and feedback from the Students and Alumni (Based on Interaction with the alumni and students on parameters such as teaching environment in the campus, support for conducting extracurricular activities such as field visits, cultural festivals etc, administrative support, career guidance and counseling and support for training and placement and student's interaction with experts from industry and academia) are taken on regular basis. The feedback is properly analyzed and inspected by academic and governing body.

Besides, the institution is certified by ISO 9001:2008 since 2012 where internal and external auditing is done periodically by in-house member and external ISO member. The institute also maintains an Internal Quality Assurance Cell (IQAC) to build and ensure a quality culture at the institutional level.

1.4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

Maharaja Surajmal Institute of Technology is affiliated to the Guru Gobind Singh Indraprastha University and follows the syllabus/scheme prescribed by the same. A systematic procedure is followed in the institution to suggest inputs/ any changes/ up gradations in the curriculum and is solely handled by the university in consultation with participating members of the affiliated colleges. During recent revision of syllabus, many faculty members of the Institute have been nominated as Members/ Convener/ Coordinators for different subjects. (List is already mentioned in 1.1.6)

Almost all the faculty members are the evaluators and subject/course coordinators during GGSIPU examinations.

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

Yes

For educational institutions striving for excellence, it is essential that they evaluate the effectiveness of their programs, and the efficiency of student services offered by them. Such evaluation is incomplete if it does not include feedback from its stakeholders. Therefore, Maharaja Surajmal Institute of Technology also has a formal mechanism to obtain feedback from students and other stakeholders which is communicated to the university and also incorporated within teaching and learning process at MSIT.

Various feedbacks obtained by the students and stakeholders are

- **Student Feedback:** The student feedback (related to faculty) is taken twice in every semester by every department of the Institute i.e. first feedback before first sessional exam and the second before the second sessional exam. Course Exit survey is also one of the

tools used by the Institute in the end of every semester for collecting feedback regarding a particular course. College Feedback Form (Already mentioned in 1.3.5) is also obtained from pass out students which helps in measuring satisfaction of graduating students with various aspects related to the program. These feedbacks are properly analysed and this information is used to improve academic and administrative support services for students.

- **Parent' s Feedback:** The Parent's feedback is obtained during parent's teacher's meeting (PTA) and orientation program on regular basis.
- **Alumni Feedback:** Alumni feedback is also obtained during alumni meet which is regularly conducted by MSIT.

1.4.3 How many new programmes/ courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/ programmes?)

No new programme/course has been introduced in last five years. Detail of B.Tech courses and intake are given below.

S. No.	Year	File no. & Date of Issue	GGSIU						
			B.TechFirst Shift				B.TechSecond Shift		
			ECE	CSE	IT	EEE	CSE	IT	ECE
1	2001 - 2002	IPU-3/11(118)/ 99/1566 Dt.21.09.2001	60	60	60	-	-	-	-

2	2002 - 2003	IPU- 3/(118)/2002/ 3195 Dt.28.08.2002	60	60	6 0	-	-	-	-
3	2003 - 2004	IPU-3/Aff/ MSIT/ 19(i)/ 2003/797 Dt.28.07.2003	60	60	6 0	-	-	-	-
4.	2004 - 2005	UPU/DR(Aff.)/ MSIT/2004/2320 Dt. 30.07.2004	60	60	6 0	-	-	-	-
5.	2005 - 2006	IPU- DR(Aff)/MSIT/2 005-06/466 Dt.16.08.2005	60	60	6 0	-	-	-	-
	2005 - 2006	IPU/DR(Aff)/AI CTE/ 2005/3237-39 Dt.13.01.2005	-	-	-	60	-	-	-
6.	2006 - 2007	IPU- DR(Aff)/MSIT/2 006-07/1586 Dt.30.08.2006	120	120	6 0	60	-	-	-
7.	2007 - 2008	IPU- DR(Aff)/MSIT/ 2007/171S9A Dt.20.08.2007	120	120	6 0	60	-	-	-

8.	2008 - 2009	IPU/Aff/MSIT/ 2008/1180 Dt.30.07.2008	120	120	6 0	60	-	-	-
9.	2009 - 2010	GGSIPIU/Aff. Letter/MSIT/200 9/100A Dt. 20.08.2009	-	-	-	-	60	6 0	-
		GGSIPIU/Aff.lett er/MSIT/2009/0 89A Dt.17.08.2009	120	120	6 0	60	-	-	-
1 0	2010 - 2011	GGSIPIU/Aff.lett er/MSIT/2012/4 8 Dt.24.01.2012	120	120	6 0	60	60	6 0	-
1 1.	2011 - 2012	GGSIPIU/Aff.lett er/MSIT/2012/4 7 Dt.24.01.2012	120	120	6 0	60	60	6 0	60
1 2	2012 - 2013	GGSIPIU/Aff.lett er/MSIT/2012/1 08 Dt.21.11.2012	120	120	6 0	60	60	6 0	60
1 3	2013 - 2014	GGSIPIU/Aff.lett er/MSIT/2013/2 03-L Dt.30.12.2013	120	120	6 0	60	60	6 0	60

1 4	2014 - 2015	GGSIPU/Aff.lett er/MSIT/2014/4 3 Dt.19.12.2014	120	120	6 0	60	60	6 0	60
1 5	2015 - 2016	GGSIPU/Aff.lett er/MSIT/2015/9 9 Dt.23.10.2015	120	120	6 0	60	60	6 0	60

CRITERION II: TEACHING –LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 How does the college ensure publicity and transparency in the admission process?

Admission Process

MSIT was established in the year 2001 by the Surajmal Memorial Education Society, New Delhi. The Institute is affiliated to GGSIPU (Guru Govind Singh IndraPrastha University) and adheres to the University Guidelines and AICTE norms for admission process. The University advertises the admission to its various programmes and the relevant details related to programme on its website, leading dailies and through the admission brochures. The admission brochure includes the following details:

- The University Profile.
- List of Programmes and the affiliated Institutions running these programmes.
- Details of eligibility
- Details of Common Entrance Test
- Seat allocation
- Reservation of Seats
- Fee Structure
- Documents required for admission
- Admission procedure for foreign students
- B.Tech Programme available in various B.Tech Institute/ Institutes
- Profile of affiliated institutes

The Institute, on its part, advertises its profile in the admission brochure of the University. Institute receives the list of students eligible for admission after centralized online counselling conducted by GGSIP University. Hence, the admission process is 100% transparent including the announcement of last date for closure of admissions and commencement of regular classes. Besides, during the time of admissions, which clashes with the summer vacations in the institutes, it is ensured that at least 10% faculty members from each department are available in the institute to guide students who come personally to seek information related to the programme or the Institution.

The college website, www.msit.in, presents information about the institution, vision, mission, policies, its infrastructure, laboratory, courses, faculty, activities, location, affiliation, library and placement. The Institute has come to gain the reputation of being one of the best institutes affiliated to GGSIP University and most of its publicity is through word of mouth by its stakeholders.

There is adequate awareness about the institution and its achievements among the public at state and national level. Institution has received the award of 'OUTSTANDING TECHNICAL INSTITUTION' by the National Institute of Technical Training and Research (NITTTR), Chandigarh based on the performance during the year 2014-2015 and Institute ranked 24th among the Top 100 Private T-schools by the Data Quest for year 2015.

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

The admission of students to the B.Tech Programme in MSIT is done through a Common Entrance Test (CET) conducted by GGSIP University to which the Institute is affiliated. The decisions regarding admission are taken by the University. It is the University that conducts the entrance examination and the counselling. The Institute only gets a list of students eligible for admission from the University. While admitting the students, the representatives from the University adhere to the eligibility and reservation criteria mentioned in the prospectus. A centralized online counselling is conducted, and students are admitted according to their CET rank and preferences stated by them to ensure transparency of the process. The number of seats filled and the number of seats vacant under every category in each institute is displayed on the University website at the end of each day of counselling. The procedure adopted by the GGSIP University is as below.

1. Issue of notification published in the leading dailies, university website.
2. Distribution of the information booklet along with the application form.
3. Submission of application to GGSIP University.
4. Conduct of CET examination.
5. Preparation of merit list based on the marks obtained in the Qualifying Examination and Government reservation policy.
6. Centralized online counselling process for admission and issue of online admission letters. Selected candidates list is displayed on the university website and notice board.
7. Commencement of classes as per the GGSIP University and AICTE notification.

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

The highest and the lowest ranks in all programs are reviewed to analyze the variation in the quality of students joining the institute. It is an indicator of the student's preference to the institution over other institutions in the region and the steps that need to be taken to further improve it. There are nineteen colleges affiliated to GGSIPU which offer B.Tech programme in various streams. Following is the comparison of CET ranks offered by GGSIPU to MSIT and other top three institutes for the academic year 2015-2016.

Admission Year 2015-2016

Institute Name	Branch	First Rank After first round of counselling	Last Rank after third round counselling
Maharaj Surajmal Institute of Technology	CSE	166	3647
	ECE	2085	7012
	IT	2250	5423
	EEE	2123	9741
	CSE 2 nd Shift	1964	4830
	ECE 2 nd Shift	4738	8136
	IT 2 nd Shift	3884	6977
Maharaja Agrasen Institute of Technology	CSE	174	2573
	ECE	745	5973
	IT	1625	5445
	EEE	943	9471
	CSE 2 nd Shift	185	1846
	ECE 2 nd Shift	1020	3916
	IT 2 nd Shift	1625	3969
Bhagwan Parshuram Institute of Technology	CSE	1759	7790
	ECE	5488	10910
	IT	5898	9532
	EEE	4131	12800
Northern India Engineering College	CSE	2486	9514
	ECE	6194	12976
	IT	7125	12207
	EEE	7296	15905
	CSE 2 nd Shift	870	10957
	ECE 2 nd Shift	9236	14261
	IT 2 nd Shift	7913	13738

Final status of course wise first rank and last ranks admitted to the institute for the academic year 2015-2016 is as given below

Institute Name	Branch	First Rank admitted to the institute	Last Rank admitted to the institute
Maharaj Surajmal Institute of Technology	CSE	1350	3647
	ECE	3394	7012
	IT	3724	5423
	EEE	4449	9741
	CSE 2 nd Shift	3351	4830
	ECE 2 nd Shift	5763	8136
	IT 2 nd Shift	5615	6977

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If yes" what is the outcome of such an effort and how has it contributed to the improvement of the process?

YES

Although the admission process is governed by the state government and GGSIP University and is not in the control of the institution, the student profiles are analysed every year after admission. This helps in understanding the social, economic and academic background of the students so that special attention is given to the academically weak students and scholarships are offered to the meritorious /economically weak students.

- The orientation programmes are conducted for the newly admitted students in order to sensitize them to the various on-campus facilities, regulations and examination procedures etc.
- Learner-centered education and appropriate methodologies are adopted to facilitate effective learning outcome.
- The institution has a well-conceived plan for continuously monitoring the student progress through the proctors and mentors.
- Facilitating scholarships announced by different agencies help them in solving their financial problems.
- Extra academic supports for slow learner are provided through extra classes or remedial classes, if required.
- Infrastructural facilities for physically handicapped are available in the institute.
- On Annual day, every year, meritorious students(first and second rank holders) from every branch are offered scholarship of Rs.15,000 and Rs.10,000 respectively
- The Book bank facility in the institute to lends the students with the text book for the whole semester free of cost.

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion

- SC/ST
- BC
- Women
- Differently abled
- Economically weaker sections
- Minority community
- Children of Ex-Servicemen Sports personnel

The GGSIPU follows the reservation policy to accommodate students from the disadvantaged communities, differently abled, Sports personal etc.

The reservation policy for the University Schools, Government Institutes and Self Financing Colleges/ Institutions affiliated with this University, other than minority institution, for the CETs is as follows:-

For the Self Financing Institutions Located in NCT of Delhi except minority status institutions

- DSC : Delhi region Scheduled Caste
- DST : Delhi region Scheduled Tribe
- DDef : Delhi region Defence
- DPWD : Delhi region Persons With Disability
- ODSC : Outside Delhi region Scheduled Caste
- ODST : Outside Delhi region Scheduled Tribe
- ODDef : Outside Delhi region Defence
- ODPWD : Outside Delhi region Persons With Disability

Candidates belonging to Scheduled Castes/Scheduled Tribes/Widows or Wards of Defence Personnel/ Persons With Disability will be allowed 5% relaxation of marks in the minimum eligibility requirement, irrespective of the fact whether there exists any reservation for any category of such candidates or not.

85% of the sanctioned intake (minus the management quota which is 10% of total seats unless surrendered by the institution for common counselling) shall be allocated for Delhi Region wherein reservation of seats shall be as under:

- DSC - 15%
- DST - 7.5%
- DDef - 5%
- DPWD - 3%

15% of the sanctioned intake (minus the management quota which is 10% of total seats unless surrendered by the institution for common counselling) shall be allocated for outside Delhi Region wherein reservation of seats shall be as under:

- ODSC - 15%
- ODST - 7.5%
- ODDef - 5%
- ODPWD - 3%.

10% of the total seats (as per CET Code) will be allocated as management quota (unless surrendered by the college/institute) seats as per policy of Govt. of NCT of Delhi in self-financing institutions.

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase / decrease and actions initiated for improvement.

The institute has a track record of almost 100% admissions for the sanctioned intake by AICTE. Institute has an excellent placement record, good infrastructure and well qualified faculty members. Institute ranks top among the affiliated institute of GGSIPU.

Program	2012-2013		2013-2014		2014-2015		2015-2016	
	Approved Intake	Admitted	Approved Intake	Admitted	Approved Intake	Admitted	Approved Intake	Admitted
BTECH (CSE) 1 st Shift	120	121	120	118	120	117	120	122
BTECH (ECE) 1 st Shift	120	120	120	120	120	115	120	120
BTECH (IT) 1 st Shift	60	60	60	59	60	58	60	60
BTECH (EEE) 1 st Shift	60	60	60	58	60	60	60	62
BTECH (CSE) 2 nd Shift	60	60	60	59	60	59	60	60
BTECH (ECE) 2 nd Shift	60	60	60	59	60	59	60	60
BTECH (IT) 2 nd Shift	60	60	60	59	60	59	60	60

2.2 Catering to Diverse Needs of Students

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The institution fully adheres to the governmental policies regarding the needs of differently-abled students. Seats are reserved by the GGSIPU at the time of admission in various programmes.

The institution aims at creating a friendly environment for differently-abled students by providing ramps and lifts to facilitate their easy movement. Wheel chairs and special toilets are available in the institute to facilitate the stay of differently-abled students. The provision of writer in the examination is also available to support the differently-abled students. Besides, due to the reservation policy adopted by the GGSIPU, students learn to cope with their differently-abled peers during the course of their study. The different activities – literary, cultural or sports events ensure that all students get a chance to participate according to their ability.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If, yes, give details on the process.

Yes

An opening session-Orientation day is organized by the institution at the beginning of the academic year for the new entrant and their parents. In the session, Management, Director, and HODs highlight the importance of the professional courses, semester system, credit system, course schedule, curriculum coverage, examination pattern, assessment methods including facilities available at the institution. Faculty members also give an overview of the opportunities and challenges in the field of study of individual engineering department. In the orientation programme the students are informed about various technical/cultural/sports/environmental clubs/societies in the institutes so that they can enroll themselves in the areas of their expertise and keep themselves updated about diversified platforms.

2.2.3 What are the strategies drawn and deployed by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

The students of both the categories namely slow and advance learners are identified on the basis of their passing percentage, classroom performance, and regularity in submission of assignments, punctuality and personal interactions. The institute pays required attention to both the slow and advanced learners.

The institution adopts following strategies for facilitating slow and advanced learners.

For Slow Learners:

- Every department organizes a series of programmes like remedial classes, mock test, debates, group discussions, proficiency and personality development workshops.
- The Mentors/Proctors are appointed to meet the needs of the slow learners. They provide them personal, academic and social counselling.
- The mentor helps the students, particularly slow learners to develop their personality and march towards progress. Proctor is appointed for every class to take special care, to monitor, guide, and help the slow learners improve.
- The class tutorials and periodic home assignments help the students to have in depth knowledge of the subject.
- Revision lectures to help the students to have insight to the previously covered topics and the relation with the new topics.
- By providing academic counselling by way of parent teacher meeting (PTM) periodically.
- By providing notes through Moodle to facilitate slow learners to bridge the knowledge gap.
- The students are motivated to join different clubs and societies like IEEE society, cultural club, sports teams etc. as per their interest.

Advanced learners are facilitated with state of the art facilities in terms of well-equipped library provided with latest edition of books, e-Books, online journals, modern labs and other amenities. Co-curricular or extra co-curricular activities encourage participative learning approach. Technical fest, quiz, debates, seminars, exhibitions, colloquium etc., are conducted for advanced learners to motivate them and excel them in all the fields.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

The institution with its mission of imparting holistic education with emphasis on the ethical and moral principles, sensitizes its staff and students on issues such as gender inclusion, environment etc. by holding variety of guest lectures/seminars on ethical values and constitution value namely “Ethics and responsibilities of teachers towards students and the institute” held on 2nd March 2015, “Preamble of Constitution of India” held on 26th November 2015,” a lecture on 153rd Birthday Anniversary of Swami Vivekanand ji held on 12th January 2016, to share and enlighten the students about the moral and ethical values followed by Swamiji, and an expert lecture “Value and ethics and its affect on present education system” held on 30th April, 2016 .

Due representation for ladies is given in all the committees constituted in the institution. Girls’ students are provided separate common room and hostel facility. 24x7 security is provided both in the campus and in the girls’ hostel to

ensure the safety of girls. Sexual Harassments committee is well established in the institute for girl students/female staff members and is available round the clock for guidance and help. The students' grievance cell comprises of senior lady faculty members also to ensure that there is no gender basis.

The institution practices the spirit of equality and no partiality is shown to students or staff on basis of cast, colour or creed.

Many Lectures with environment centric themes, and ethical values and morals are held to make the students and staff aware about the local and global environmental issues and ethics. A trend of tree plantation by the experts called for the guest lecture/FDP/seminars is followed to inculcate the value of "GO GREEN" among the students and faculty members. Apart from this, the university also offers a subject on Environmental Studies [ETCH-106] to students of first year in all departments.

2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?

- Advanced learners are facilitated with state of the art facilities in terms of well-equipped library provided with latest edition of books, E-books, online journals, modern labs and other amenities. Students are allowed to borrow additional books in the library and study rooms are available in the library till 5 pm.

The institute has a central library with a huge collection of books and national and international journals. The library also has all infrastructural facilities including computers with internet facilities.

OPAC: Web-OPAC facility on the entire computer Terminals available at Central Library and Book-Bank.

Electronic Resource Management package for e-journals

S.No.	Online Journal Name	No. of Journals	Publisher Name
1	IEEE (ASPP+ POP) {ASPP: All-Society Periodicals Package, POP: Proceedings Order Plans}	2864 (169+2695 E-Journals)	IEEE
2	Science Direct	275 E-Journals	Elsevier
3	Springer Link	149 E-Journals	Springer
4	J-Gate Engineering & Technology (JET)	4532 E-Journals	Informatics
5	McGraw Access Engineering	622 Engineering E-Books	McGraw
6	ASTM Digital Library	1560 E-Journals	ASTM

2. Meritorious students are rewarded with scholarship on annual day.

- Institute has regular class room lectures supported with audio visual aids along with blackboard.
- Every year Educational tours/ Industrial visits organized for students so that they will get the industry exposure.
- Regular invited special lectures by experts from IIT, JNU, NSIT, GGSIP University and other prestigious institutions and industries are conducted in the institute.
- University has the provision of tutorial classes in some of the required subjects which help the advanced learner to have in depth knowledge of the subject.
- The provision e-content for webinars is available for the advanced learner.
- The Institute provides the internet with 50MBPS speed, so if the students want they can enroll in an online course of their interest by MOOC (Massive Open Online Course) etc.
- Video lectures (NPTEL Lectures) are used by faculty member.

2.2.6 How does the institute collect, analyse and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc.who may discontinue their studies if some sort of support is not provided)??

It is indeed heartening to note that there has been less dropouts in the last few years as the institute has a sound system of identifying such students and counselling and mentoring them.

The dropout details are attached as (**Annexure. 2.1**)

Academic performance of the students; from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. is assessed by the teachers during their lectures in classroom. We use marks as index for identifying slow learners. These students who do not seem to cope with the pace of learning are advised and counselled by the faculty members, mentor/proctors and the Head of the department. They are specially advised and counselled so as to help them improve themselves. Students are subjected to various methods of evaluation like vocal responses in the class, individual responses in the Laboratory and the performance in the midterm examination. Based on their performance, students are identified as slow and advanced learners. The morale of the slow learners is boosted by counselling sessions, remedial classes and intensive interactive sessions. They are also given advice after class hours and are motivated by providing additional learning material such as text books and solved question papers from examination.

A batch of 20 students is assigned to a mentor, a teaching faculty. The mentor acts as a counsellor and is responsible for the holistic development and welfare of the 20 students. Continuous evaluation provides opportunity for counselling students with feedback to enhance their academic performance and behaviour.

Students are counselled periodically, fortnight/month, about their academic performance, financial problem, hostel problem and other personal problems. If required, parents are invited for counselling along with the students. Parents/Guardians are informed about the performance of the students and their attendance on regular basis.

In addition to counselling the students regular parent teacher meetings ensures that there is nil drop out due to any reasons. The management has always been gentle and magnanimous in dealing with students from poor economic background and extended financial support in hostel, boarding and other areas.

The institution aims at creating a friendly environment for differently abled students by providing ramps and lifts to facilitate their easy movement. Besides, due the reservation policy adopted by the GGSIPU, students learn to cope with their differently abled peers during the course of their study

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organise the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

The teaching learning process is the back bone of the academic system of any institution. Hence, Institute gives utmost care on teaching learning process so as the communication reaches all the students of different groups at grass root levels. With the advent of technology, teaching methodology has also appropriately evolved. The faculty members concentrate on teaching in addition to research and extension services and have evolved the best possible strategies and techniques of teaching to facilitate learning of students.

Being an institute affiliated to GGSIP University, we follow the academic schedule provided by the university. The Institute prepare their own academic calendar for B.TECH programme which follows the timelines/guidelines and academic schedule of the affiliating University. Generally, the GGSIP University gives guidelines on the following in their academic schedule,

- Beginning of the academic sessions.
- Last working day of the semester.
- Mid-term examination schedule.
- End term theory and Practical examination schedule.
- Vacation schedule.

The recent academic calendar for year 2016-2017 is enclosed in (**Annexure 2.2**).

The same academic calendar is published on institute website before the beginning of every academic year. It provides plan for the academic year to students, teachers and parents. Considering the academic calendar, each department functions according to the teaching plan prepared at the department level. The unit wise syllabus is planned by the faculty and discussed and approved by the head of department.

In addition to the basic academic requirements, MSIT organizes co-curricular and extracurricular activities such as conference, seminars, guest-lectures, sports day, cultural day, industrial visit etc. and their probable dates are planned in the academic schedule. The academic schedule need to be followed is published in the academic calendar and made available to the students and the faculty well before the commencement of the academic session through website.

Every department prepares its Objective and Targets at the start of the academic session and the Institute's ISO Cell and IQAC cell monitors the progress of the objective and targets twice in a year. Any noncompliance, if found, is to be resolved/closed with the due consultation of higher authorities.

The evaluation blue print consists of the following components.

Theory and practical examinations consist of two components namely, external evaluation 75% marks and internal evaluation 25% marks in case of theory exams and external evaluation 60% marks and internal evaluation 40% marks in case of practical examination. However, the question papers for both the midterm examination are designed centrally by the subject coordinators appointed by the University for all affiliated institute of the University. The external evaluation is the responsibility of the affiliating university. The internal evaluation consists of the following components.

Midterm Examination – I	10 %
Midterm Examination – II	10 %
Assignments	5 %

	25 %

The subject coordinators appointed by the university are required to prepare the lecture plan for each subject. All the teachers maintain the teacher's diary specifying the details of the topics taught in the classroom and entering the marks for midterm examinations, grades for laboratory work and daily attendance. An internal examination cell is available in the institute for the smooth conduct of various examinations.

The faculty follows the lesson plan, which contains the details regarding course objectives to be achieved, details of contents to be covered, the kinds of teaching aids and the logistics to be used inside the class room.

Timetable is prepared and displayed on the notice board. The departments also carry out internal assessment based on student test performance and punctuality. The final evaluation of students is done according to the university schedule. Towards the end of each session / semester, theory and practical examinations are conducted by the university and evaluation is carried out. The exam results are declared and mark sheets are issued by the affiliating university.

- All the examination records are tabulated and the data is maintained by the each department.
- The Institution also encourages innovative methodologies for evaluation viz namely, assignments, tutorials sheets, project based examinations through lab simulation exercise.

2.3.2. How does IQAC contribute to improve the teaching –learning process?

MSIT has a well-established IQAC cell .Every department prepares its Objective and targets (hardware/software needs or up gradation, technical-cultural fest, FDPs, seminar, industrial visits, Expert Lecture etc.) at the start of the academic session and the institute ISO Cell and IQAC cells monitors the progress of the objective and targets twice in a year. Any noncompliance if found is to be resolved/closed with the due consultation of higher authorities.

Two internal Audits and one external audit are planned every year for each department to check and monitors whether all the processes are followed or complied with the guidelines of GGSIPU.

2.3.3. How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

At the start of academic year the faculty members of every department prepares the course outcome of their respective subject. The teaching learning practice is followed by the teacher to meet this defined course outcome. There are specified program outcome of each undergraduate programme. The attainment of these course outcomes are mapped with the programme outcome to ensure that there should be no gap in attaining these programme outcome.

The institute supports student-centric learning through its efforts at creating a learning environment which allows students to think, answer and ask questions. The basic strategy adopted is to provide students with a diversity of learning experiences. Being a common teaching method, lectures are

supported by assignments, discussions, projects and motivation towards the research work also.

The student-centric learning is promoted through different types of interactions to ensure that real communication takes place in the classroom. There are various methods used to make learning student-centric. The strategies in this regard are as follows –

1. The lectures are made more interactive.
2. The teachers adopt presentation and group discussion method to make the topics more interesting and to promote the interactive and collaborative learning.
3. The teachers frequently give the illustrations and discuss special technical conditions to acquaint the students with the practical insight of the subject.
4. The visits to industries, institution of higher education and research, national laboratories and non-governmental organizations are periodically arranged to make the subjects teaching a learning experience.
5. The Lab-manual containing suitable assignments in order to develop reading and research habits are made available to the students of all classes.
6. Students are counselled by individual proctor/mentors.
7. Strengthening of library resources and services.
8. Moreover, the students themselves organize and participate in various technical events. These programs are fully “student-centric” and they nurture their organizational and managerial skills apart from enriching their technical knowledge.
 - IEEE MSIT has been actively organizing workshops, short term project initiatives, scientific excursions, lecture series and competitions since its beginning. IEEE MSIT has conducted many hands-on workshops on robotics and Arduino, web development, and Android. In this academic session, IEEE MSIT launched the Short Term Project Initiative where students from 1st and 2nd year worked with the 3rd and 4th year students in the field of machine learning, game development using Python, electronics, and robotics for 2 months to gain practical knowledge in their interest area.
 - To promote specialized education and awareness amongst the students, IEEE MSIT has three Chapters under it- IEEE MSIT Microwave Theory and Technique Society (MTT-s), IEEE MSIT

Power and Energy Society (PES), IEEE MSIT Computer Society (CS).

- IEEE MSIT WIE (Women in Engineering) is an affinity group dedicated to promoting women engineers and scientists. As part of STAR (Students, Teachers and Research), IEEE MSIT WIE has organized interactive sessions in schools to impart knowledge about engineering and the STEM field and inspire young children, especially girls, to join it. It has also organized Breast Cancer Awareness session and Self Defence workshops.
9. Annual Magazines and Bi-annual newsletters and the institute Journal help the students to showcase their literary and technical creativity and make learning more exciting.
 10. The institute offers a lot of support services to its teachers for making the learning student centric.
 11. The institute provides a well-stocked fully computerized air-conditioned library with a collection of the latest books and journals which the faculty uses effectively to provide comprehensive and latest information to the students. Students are also encouraged to use the library independently that enhances their knowledge.
 12. Apart from it, the institute provides three state of the art seminar halls where students participate in GDs, Debates and Seminars.
 13. The institute also encourages the use of internet and computers by the staff and students to keep them abreast of the latest developments in their respective field of study.

The Emphasis is on helping the students to acquire critical thinking, interpersonal communication skill, listening, problem solving and knowledge management skills, Team work during minor and major project and group interaction all of which enable the students for lifelong learning.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

The institute concentrates on making the students original thinkers to motivate the scientific temper through critical thinking and logical reasoning that can trigger creativity and analytical skills.

The faculties motivate them to participate and do well in various competitive technical events, group discussions, quizzes. The long list of prizes won by our students in such events bears a testimony to it. From the first year itself students are motivated to do small real time projects based on the concepts taught in the respective subjects. Students are encouraged to do research based projects in their final year.

All the departments have professional society associations under which several programs are conducted to nurture creativity and scientific temper among the students. The programs organized by the associations include

- Guest lectures on latest topics
- Expert lectures on emerging technologies
- Student seminars
- Workshops to enhance technical skills of the students
- Technical Quiz
- Paper presentations
- Major and minor projects
- Educational tour/Industrial visit
- Essay writing
- Participation in national and international conferences.

University also acknowledge the top three student project in every department which is evaluated by the external authorities appointed by the university across the all affiliated institutes and cash prizes and certificates are issued to the winners by the GGSIP University.

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

- The use of modern multi-media teaching aids like OHP, multimedia projectors, internet enabled computer systems are usually employed in class rooms makes the teaching learning process more effective. The students are also encouraged to use computer software packages for meaningful analyses of the experimental data collected/acquired by them.
- Faculty are provided training in teaching methodologies by the experts from various prestigious institutes like IITs, JNU, NSIT, DTU and GGSIPU. Institute is fortunate enough to have Bhatnagar Awardees and Padamshree Awardees in the faculty development programme. Each department conducts guest lectures by inviting experts in related fields on a regular basis both from reputed Universities, Institutes and Industry. Each department also conducts one day seminar or workshop as per the requirements of the new developments in the subjects for the students.
- NPTEL video lectures are used by the faculty and the students.
- Advanced teaching aids such as LCD projectors are available in each department. The teaching aids like slides, comparative charts, photographs, pictorial materials, and information and communication

tools, practical training booklets (Lab Manuals) etc. are used as per requirement to make the teaching and learning experience more effective and interesting.

- Current issues of many National and International journals are also available in the central library. The journals and books are issued to the faculty and students for a fixed time period. Besides, every department has its own departmental library, with one of the teaching staff members as it's in charge.
- The institute has one of the best stacked libraries in the region. The books and journals available are:

Electronic Resource Management package for e-journals

S.No.	Online Journal Name	No. of Journals	Publisher Name
1	IEEE (ASPP+ POP) {ASPP: All-Society Periodicals Package, POP: Proceedings Order Plans}	2864 (169+2695 E-Journals)	IEEE
2	Science Direct	275 E-Journals	Elsevier
3	Springer Link	149 E-Journals	Springer
4	J-Gate Engineering & Technology (JET)	4532 E-Journals	Informatics
5	McGraw Access Engineering	622 Engineering E-Books	McGraw
6	ASTM Digital Library	1560 E-Journals	ASTM

***Detailed information regarding seminars/workshops conducted by each department is presented in the evaluation report of the department.**

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

The various means by which the students and faculty are exposed to advanced level of knowledge and skills are

- The internet facility provided to faculty members and students to access e-journals and e-books to keep pace with the recent developments in the various subjects.
- Students and faculty facilitated to advanced level of knowledge and learning by an access to the latest reference and text books in library and departmental library.
- Faculty and students are encouraged to participate in international and national conferences, symposium, seminars and workshops to interact with experts in their field and remain updated with the recent global developments in their respective fields.

- Institute conducts lectures and seminars by experts from industry, university and other national laboratories or organizations on various issues; faculty members and students are encouraged to participate in and reap benefits from these events.
- Educational tours/Industrial visits are conducted for students to provide them with an exposure to industry and the current industry needs.
- Over the past many years the faculty have been participating in the conferences and presenting research papers in national and international seminars/Conferences. The institute reimburses the full registration fees along with the travel cost for such participations.
- The Institute encourages the students to participate in national and international seminars, conferences and workshops.
- The students are encouraged to have insight into a few latest topics in the subject even though they are beyond the scope of the syllabus and give presentation on those topics in seminars in 7th semester.
- The faculty is encouraged to participate in in-house training, faculty development programs and orientation programs.
- The faculty is encouraged to carryout research work within the institution and in collaboration with other institutions and research organizations.

2.3.7 Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counselling/mentoring/academic advise) provided to students?

- A batch of 20 students is assigned a mentor, a teaching faculty. The mentor acts as a counsellor and is responsible for the holistic development and welfare of the 20 students. Continuous evaluation provides opportunity for counselling students with feedback to enhance their academic performance and behaviour. Each department has one teacher as a proctor to hear the problems of students and give appropriate guidance and motivation.
- A grievance cell consists of senior faculty members who listen to the student's grievance and provide guidance.
- The institution also has students' Career guidance Cell/Placement Cell which facilitates students counselling and guidance.
- Students are counselled periodically; fortnightly/monthly, with regard to their academic performance, financial problems, hostel accommodation issues and other personal problems. If required, parents are also invited for counselling along with the students. Parents/Guardians are informed about the performance and attendance report of the students on regular basis.
- MSIT believes that the teachers should be a true friend, philosopher and a guide for the students.

- Career Advisory aspect is taken care of by arranging expert lectures and interactive sessions with the help of experts from the industry. Student placement co-coordinators are identified from the final year students to take training and help from the placement cell.
- The placement cell prepares the students for placement in reputed multinational companies.

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

- The institute encourages the teachers to keep themselves abreast of the latest developments in their respective fields. They are encouraged to use computers, internet and library resources to enrich their teaching. The institute faculty is also provided training in using ICT tools. The faculty members in the institute adopt approaches/methods such as seminars, conferences and special lectures. The faculty members are encouraged to participate in National/International seminars and conferences. They are provided financial assistance for this purpose. The faculty members who attend such seminars/ conferences share their experience and information with students and other faculty members.
- Staffs are encouraged to pursue Ph.D. programs and to take up individual and collaborative research work within various research organizations.
- Study leave is provided to faculty members who wish to pursue Masters or Ph.D. programs.
- The faculty members use the MOODLE for sharing important subject notes with the students.
- All the faculty members of various departments are also encouraged to organize FDP, Workshops, Training Programs and Seminars.

Note: Research papers and publications are shown in individual evaluation report of the department.

2.3.9 How are library resources used to augment the teaching-learning process?

The institution has centralized library. The library resources are used to augment the teaching learning process. The catalogues from different publishers are filed. Faculty members, through Heads of departments, can order for books from these catalogues. The range of subjects represented by the library collection reflects our institution's ever growing zest for newer areas of study and research. Some faculty members have their personal

collection of a large number of books and they share the books and journals with the fellow colleagues and students. Faculty member can efficiently use the library facility and could share their knowledge of innovative research topics, reviews, methodology, data gathering and information output with the learners. Students are also encouraged to make use of library services. They are provided with a student library card which enables them to access books issued from the library. Students are given library periods in the time table to instil reading habits among them.

Book bank facility in the institute helps the students in procuring the prescribed text book from the university without any additional monetary burden.

The institute has one of the best stacked libraries in the region. The books and journals available are:

Electronic Resource Management package for e-journals

S.No.	Online Journal Name	No. of Journals	Publisher Name
1	IEEE (ASPP+ POP) {ASPP: All-Society Periodicals Package, POP: Proceedings Order Plans}	2864 (169+2695 E-Journals)	IEEE
2	Science Direct	275 E-Journals	Elsevier
3	Springer Link	149 E-Journals	Springer
4	J-Gate Engineering & Technology (JET)	4532 E-Journals	Informatics
5	McGraw Access Engineering	622 Engineering E-Books	McGraw
6	ASTM Digital Library	1560 E-Journals	ASTM

- **Average number of books added during last three years**
4027 (12080 Books added during last three years)
- In addition to the central library, the institute has set up enriched departmental libraries.

2.3.10. Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If yes, elaborate on the challenges encountered and the institutional approaches to overcome these.

No.

The institute has a well laid down system to plan the schedule in advance and monitor the coverage of syllabus on regular basis to ensure curriculum completion within the given schedule. The institute ISO cell has a process to keep track of the coverage of syllabus in theory as well as laboratory practice.

At the end of every month course coverage is reviewed by the HODs and Director and if the gaps are identified, the necessary action is taken by the HODs.

The affiliating university, GGSIPU follows semester systems and prepares a tight schedule for completing the course curriculum. Extra lectures, hand outs and important study materials are uploaded on Moodle to help teachers in completing the curriculum within the planned time frame.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

Teaching and learning process is best attained by interactive process between the teacher and the students. The success of the teacher however, depends on their innate ability and art of his teaching methodology and through preparation for the class. These processes cannot be quantified or generalized. The standard methods of teaching, learning and evaluation which are proven over the years are being followed. Institution makes regular effort to enhance the skills and ability of faculty members by organizing in house- training programs and or deputing the faculty member for faculty development programme.

The Institute monitors the quality of teaching by several means such as

- Preparation of Course files by the faculty members: Faculty members prepare the course file for the subjects taught by them .The course file is checked by the other senior subject expert to ensure the quality of lecture notes.
- Evaluation of teachers by students: The institution has a feedback system to evaluate the teachers by students. At the end of each semester, the feedback from students is obtained by online feedback system for all subjects. In this feedback, questions regarding performance of the teachers are sought. Their feedback is analysed by the concerned HODs. Based on assessment of performance, HOD gives necessary directions for the improvement in the teaching methods. Director and management also monitor the feedback system and takes appropriate corrective actions. The faculty whose feedback is not up to the mark is counselled by the Head of the Department / Director. Institute has a provision to take feedback from the pass out batch regarding facilities, infrastructure, and suggestion for the improvement in teaching learning methodologies adopted etc.
- Self-appraisal of Faculty Members: All the faculty members are required to submit self-appraisal report every year in the prescribed format. Review of faculty self-appraisal final report: MSIT has evolved a standard method of evaluating the teaching, research and administrative activities of the faculty. The information furnished by

the faculty member is analysed by the HODs, Director and the score sheet of each faculty member is submitted to the management.

- ISO internal and external audit of the departments: The ISO Cell formulated by the institution evaluates both the academic and administrative aspects of all the departments twice in a year and suggests remedial measures for improvement to boost the work culture of the department and thereby improving the quality of teaching and learning in management review meetings.
- The shortcomings identified in theory or practical classes are addressed through guest lectures/conducting tutorials/printing reference materials or the lecture notes through Moodle.
- Student's result analysis: Institute has the provision of analysis of student's performance after the announcement of their semester result. If the result of the students, in a subject, is not found up to the mark, necessary steps are taken to find out the reasons and the concerned faculty members are counselled and motivated to work towards improvement.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum

The institution follows the GGSIP University and AICTE guidelines in the selection of faculty members in order to ensure that qualified and competent persons are selected by a well-defined procedure. The institute has more than sufficient number of qualified and competent teachers to handle the courses offered.

Recruitment Procedure

- Advertised for the post: Through newspaper advertisement/website the candidates are requested to send their resume to the Institute.
- Scrutiny of applications: While scrutinizing the applications, AICTE qualification norms are followed by the institute. The submitted resumes are analyzed by the Screening Committee and the eligible candidates are intimated for interview by sending e-mail/Post after fixing the interview date.
- Selection committee: The selection committee comprises of the Management, Director General, Director, and a team of external subject experts. A personal cum technical interview is conducted to assess the knowledge of the candidate. The candidates are asked to demonstrate their teaching skills or achievements through a presentation in the presence of the selection committee. The selection

committee members analyse the performance of the candidate and based on the performance in the interview, candidates are selected.

- Issue of appointment letter: The Director of the institute issues the appointment letter. The appointments are approved by the Governing Body during its regular meetings.

Retention of the faculty:

The Institute has already a very high retention of faculty members. To attract the new faculty and to retain the existing teachers the institute provides requisite facilities such as:

- Institute offers high salaries as per AICTE norms and 6th Pay commission.
- The Institute also increases the amount of dearness allowance and travel allowance as per government rules and provides provident fund facility to its staff members.
- Institute has an excellent infrastructural support including research facilities like library and internet.
- Institute provides study leaves for pursuing PhD, casual leaves, medical leaves and special leaves to attend seminar, conferences and workshops.
- Timely promotion to the eligible faculty members is considered to motivate the faculty members and keep the retention high.
- Institute provides on duty leaves to the faculty members to take part in university evaluation process etc.

The details of the faculty members are given as below:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
Ph.D.	03	01	02	05	05	12	28
D.SC/DLit							
M.Phil.							
PG					27	70	97
Temporary Teachers							
Ph.D.							
D.SC/DLit							
M.Phil.							
PG							
Part-time Teachers							
Ph.D.							
D.SC/DLit							
M.Phil.							
PG							

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

- As far as the Engineering branches such as Computer Science & Engineering, Electronics & Communication Engineering, Information Technology and Electrical & Electronics Engineering is concerned, our institution has made a lot of efforts to recruit the best quality teachers. The institution conducts seminars on all branches of engineering at regular intervals to upgrade the technological skill of our teachers. In addition the institute invites experts to deliver guest lecturers in selected areas of interest. Guest faculty members are invited on regular basis to update the knowledge of faculty and students on special subjects such as Cloud Computing, Big Data analysis, robotics, VLSI design, Embedded system etc.
- To attract the new faculty and to retain the existing teachers the institute provides requisite facilities like salaries as per AICTE norms and 6th Pay commission, research facilities like library and internet, study leaves, casual leaves, medical leaves and special leaves to attend seminar, conferences and workshops and on duty leave to take part in university evaluation process etc.
- The Institute also increases the amount of dearness allowance as per government rules and also provides provident fund facility to its staff members.
- More guest lectures are arranged in the identified and specific fields. As stated earlier, the institute has more than sufficient number of qualified and competent teachers to handle the courses offered.
- Institute has highly qualified teacher with expertise in various engineering fields. Twenty eight faculty members have Ph.D. degree and forty eight are pursuing Ph.D. from various reputed universities.

Courses like bio-medical Engineering and bio-informatics are not offered by our institution.

Note: Details of the guest lecture, seminar and workshops conducted are attached with evaluative report of departments.

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

The Management has a positive attitude towards the professional development of the faculty in acquiring the knowledge of recent developments and

engaging them in the research activities. The following are some of the highlights:

1. Study leave: The Institution grants study leave to the faculty members to complete M.Tech/Ph.D. degree. The Institution provides study leave of up to one academic year to the faculty to undertake research. At the end of the leave they need to submit a report of the research.
2. Encourage participation in National/International Conference / Seminars: The Institution provides full registration fee along with travel grant to the faculty.
3. In-service training: Faculty Development programmes are conducted by the institute for the skill enhancement of faculty members.
4. The Institution provides financial support for organizing national seminars and workshops and faculty development programme.
5. The incentive scheme has been introduced to promote research and publication activities among faculty members. This scheme involves special recognition for faculty members with best faculty awards of Rs.51, 000/-.

a) Nomination to staff development programmes

Academic Staff Development Programmes	Number of faculty nominated
Refresher courses	0
HRD programmes	6
Orientation programmes	0
Staff training conducted by the university	31
Staff training conducted by other institutions	170
Summer/winter schools, workshops, etc.	755

b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning.

- **Teaching learning methods/approaches**
- **Handling new curriculum**
- **Content/knowledge management**
- **Selection, development and use of enrichment materials**
- **Assessment**
- **Cross cutting issues**

- **Audio Visual Aids/multimedia**
- **OER's**
- **Teaching learning material development, selection and use**

The institution extends full support for the professional development of the faculty. The faculties are encouraged to pursue their M.Tech./Ph.D. programme. The institution deposes its teachers to attend faculty development programmes, national/international conferences, seminars and training programs organized by other institutes, universities and research organizations. The institution also conducts number of seminars, workshops and special lectures for the benefit of its faculty members and students. The institute has conducted number of workshops/seminars/faculty development programme during last four years. The Institute grants duty leaves according to the nature of work.

c) Percentage of faculty

*Invited as resource persons in Workshops / Seminars /Conferences organized by external professional agencies

2% faculty Invited as resource persons in Workshops / Seminars /Conferences organized by external professional agencies

*participated in external Workshops / Seminars /Conferences recognized by national/ international professional bodies

2012-2013	2013-2014	2014-2015	2015-2016	Average
36.45%	37.5%	37.5%	41.32%	38.24%

* presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies

2012-2013	2013-2014	2014-15	2015-16	Average
17.75	13.38	13.39	25.61%	18%

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)

The MSIT has various policies/system in place for the professional development of the faculty in acquiring the knowledge of recent developments and engaging them in the research activities. The following are some of the highlights:

1. The Institution provides sabbatical leave of one academic year to the faculty to undertake research. At the end of the leave they need to submit a report of the research.
2. Study leave: The Institution has provision of study leave for the faculty interested in pursuing higher studies (M.Tech/PhD).
3. Deputation to National/International Conference / Seminars: The Institution provides special leave, full registration fee along with travel grant to the faculty members to encourage them to participate and present their research findings in national/international conference /seminars.
4. In-service training: Faculty development programmes are conducted in the institute to provide insight into the latest technologies and teaching methodologies.
5. The Institution provides financial support for organizing national seminars, expert lectures, workshops and faculty development programme.
6. The incentive scheme has been introduced to promote research and publication and various academic activities among faculty members. This scheme involves special recognition with an award of Rs.51, 000/- as best faculty award.

2.4.5. Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

The institute provides necessary infrastructure and other required support to encourage teachers to excel in their teaching. The study centric environment and conducive atmosphere of the institute encourages teachers to prove their mettle. As a result, many teachers have been rewarded by various state and national level bodies. To name a few, following faculty member of the institute have been awards/recognitions in the last four years:

1. Prof. B.S Panwar , Conferred with the following awards
 - Adjunct Professor University of Regina Saskatchewan Canada, 2012.
 - Recipient Mobility Exchange Grant of Shastri Indo-Canadian, 2013.
2. Prof. K.P. Chaudhary is Award winner at the CSIR foundation day celebration for patents in 2008, 2010, 2011 and 2012
3. Prof. Poonam Bansal Conferred with the following awards
 - Outstanding Branch Counsellor Award by IEEE Delhi section for the year 2014.
 - Outstanding Branch Counsellor and Branch Chapter Award of Region10 award for the year 2015.

4. Ms. Vimal Gaur, Reader, CSE Department, received IEEE Outstanding Branch Counselor and Advisor Award for Region 10 that includes the entire Asia-Pacific Region in 2012.
5. Ms. Sapna Dhankar, Assistant Professor, CSE Department received Best Paper Award in International Conference on computing sciences held at LPU, Punjab held on 8- 9th April 2016.
6. Ms. Nishtha Jatana, CSE Department received Best Paper Award in 4th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO) in 2015.

2.4.6. Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

Yes.

Evaluation of teacher's performance is done every semester.

- Evaluation of teachers by students: The institution has a feedback system for the evaluation of the teachers by students. At the end of each semester, the feedback from students is obtained online for all subjects. In this feedback, questions regarding performance of the teachers are sought. Their feedback is analysed by the concerned HOD. Based on assessment of performance, the HOD gives necessary directions for the improvement in the teaching methods. Director also monitors the feedback system and takes appropriate corrective actions. Feedback from pass out batch is sought regarding the teaching learning effectiveness and further improvement areas.
- Self-appraisal of Faculty Members: All the faculty members are required to submit self-appraisal report every year in the prescribed format. MSIT has evolved a standard method of evaluating the teaching research and administrative activities of the faculty. The information furnished by the faculty member is analysed by the HOD and Director of the institute.
- ISO and IQAC cell: The ISO Cell formulated by the institution evaluates both the academic and administrative aspects of all the departments and suggests remedial measures for improvement to boost the work culture of the department and thereby improving the quality of teaching and learning.
- In addition teachers are evaluated by the affiliating university during the Academic Audit conducted by GGSIPU and JAC (Joint Assessment Committee) process.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

- The Stakeholders of the institution i.e. students and faculty members and even the parents of the students are informed about evaluation process by giving general instructions mentioned in the prospectus of the institution. The periodic instructions issued by the parent university are promptly communicated to the students through parent teacher meeting (PTM).
- The students are individually provided with copies of the university syllabus.
- Likewise they are informed at the start of the session regarding the terminal examination dates decided by the GGSIPU.
- The answer scripts of the two mid-term examinations in each theory paper are showed to the students and the solutions are discussed with them.
- Specific areas of difficulty are identified and additional inputs in those areas are given. Extra classes are arranged for weaker students in their free periods.
- The assignments of students are checked and feedback is given on how to improve upon them.
- Staff meetings are also conducted from time to time about the evaluation process guidelines of the university and same is communicated to students in their classes.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

The institute is affiliated to the GGSIP University, it follows the evaluation method of GGSIP University. The GGSIP University has introduced semester system for the evaluation of students. The central evaluation system is followed by GGSIP University which is transparent and unbiased in nature. The university has initiated various evaluation reforms viz.

- Internal assessment system (Two midterm examination centrally controlled by the University for setting up of question papers) has been introduced by the university to continuously monitor the performance of the students.
- The students are allotted with enrollment numbers based on the code and criterion given by the affiliating university. The internal

evaluation is conducted for theory subjects on the basis of mid-term exams and assignments/quiz/class test. The internal evaluation carries 25% weightage. A continuous internal evaluation system is followed for practical subjects.

- University has their strict guidelines for the seating plan for internal and external examinations need to be followed by affiliating institutes.
- University introduced their evaluation center for the evaluation of answer scripts for external examinations.
- University has the provision for recounting and re-evaluation on the request of the student, student can file the RTI and can see their answer scripts if they have any doubts regarding their marks in answer scripts.

Academic Reforms initiated by the institution:

- The institute effectively conducts the mid-term exams, end-term examinations, project work, viva-voce, semester examinations to achieve the objectives of the evaluation system.
- Assessment is directed towards the student's learning capabilities and not of his memorizing capabilities. Evaluative techniques such as Mid-term evaluation, home assignments, and viva-voce during lab help faculty members to provide feedback to the learner and guide them to the right approach to learning so that they can work towards improving themselves well within the time.
- The reforms initiated by the institution include immaculate records keeping of all the examination data by the examination cell and Dean Academics.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

- The evaluation reforms of the university are followed in the best of the spirit. The evaluation is all transparent; students are free to see and are invariably shown the evaluated answer sheets.
- Whenever midterm tests are taken the results of the student's performance/awards are shown to the students to encourage them or counsel them for better future performance.
- Students doubt about evaluation is clarified. All record i.e answer sheets, award lists, and internal tests are maintained.
- If the performance of the students in the internal examinations is below average it is communicated to the parents.

- The institution has a well-established examination cell which strictly follows the guidelines of the GGSIPU, New Delhi.

2.5.4 Provide details on the formative and summative evaluation approaches adapted to measure student achievement. Cite a few examples which have positively impacted the system.

University is the sole authority for implementation of reforms in examination and evaluation, for bringing about a positive change in the evaluation practices; the institution adopts both formative and summative methods of evaluation as per the guidelines of the GGSIP University.

Formative approach to evaluation includes measuring the student's achievement through viva in laboratory, group discussions, seminars and assignments including their marks obtained in midterm examination. The evaluation through these approaches gives lot of information about student achievement and the gaps identified if any. The concerned teacher may get some direction about the student and necessary steps regarding his/her improvement can be pondered over. All faculty members follow the formative approach to measure student's achievements and performance through

- Group discussion
- Two midterm theory examination
- Assignments/quiz/class test
- Viva voice in each lab session
- Regularity and Punctuality

The summative evaluation is done after the announcement of result of end term examination. The performance of students is evaluated and corrective measure in terms of extra class and teaching support to clear their backlogs are provided to the students.

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.)

The evaluation of the student is based on the continuous assessment. The structure for evaluation is as follows.

1. Assessment and evaluation process happen in a continuous mode. However for reporting purposes a semester is divided into three discrete components identified as T1 (Mid-term 1), T2 (Mid-term 2) and T3 (End-Term).

2. The performance of a candidate in a course will be assessed for a maximum of 100 marks as explained below:

End Examination - 75

Internal Assessment marks - 25

Component T1 and T2 for assessment are for 20 marks. This is based on sessional examination, paper set by the subject coordinator appointed by GGSIPU i.e. subjective type test paper. There are 5 marks for the assignments. The outline for continuous assessment activities for T1 and T2 is informed to the students in advance. Question papers with descriptive type questions are set for midterm examination by the subject coordinator appointed by the university. The institute follows a transparent evaluation system. The evaluated answer scripts of every sessional examination with comments are distributed to the students. All the students have easy access to the teachers and can seek clarification regarding the scheme of evaluation. Any discrepancies reported by any student are rectified before the marks statement is finalized.

An end semester examination of three hours duration is conducted by the GGSIP University for each course. This forms the third and final i.e. T3 component and the maximum mark for the final component is 75. The End term paper is set by the University and remains same for all the affiliated institutes.

For practical examinations, the exams are conducted by an internal examiner and an external examiner appointed by the GGSIPU University. A candidate is assessed on the basis of knowledge, skills and operation involved and results including calculations and reporting. A candidate's performance is a sum of all three components will be in terms of scores and the sum of all three components shall be for a maximum of 100 marks.

Weightage for behavioral aspects, independent learning, communication skills

- Placement training is provided to the students beyond curriculum. Behavioral aspects and communication skills are comprehensively addressed in the placement training provided to the students. Communication skills are tested through report writings, presentations and group discussions.
- Human Values & Professional Ethics course introduced by the university in 1st semester and 8th semester underlines the need for professionalism, a balanced outlook on behavior, and review for universal human values and professional ethics.

- Environmental Studies course emphasizes the need to use the resources judiciously, avoid over exploitation of and conflicts over natural resources.
- Seminars have been introduced by the University for all the Programs as compulsory part of course curriculum to enhance, monitor and give a due weightage to the communication skills.

2.5.6 What are the graduates attributes specified by the college/affiliating university? How does the college ensure the attainment of these by the students?

The Institute aspires to have a transformational impact on students through comprehensive education by inculcating qualities of competence, confidence and excellence. The institute has specified its graduate attributes clearly by following the graduate attributes defined by the NBA for engineering program as follows.

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
3. Design/ development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources and modern engineering activities, with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Lifelong learning: Recognizing the need for and having the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

Students having grievances with the internal evaluation process can directly approach the concerned faculty member, who in turn will discuss the performance of the student openly with the answer sheet. Students are also free to consult the Head of the Department in case of their grievances. So far as the external evaluation by the affiliating university, there too is provision of re-evaluation on request for which fee is charged from the student and evaluation is done once again. The examination are conducted and controlled by university. The institute has to follow the instructions of the university. If students have any problem, the Director of the institute communicate to the concerning authority (Controller of Exams or other offices) of university about the grievances of the students. The institute follows open evaluation system where the student performance is displayed on the notice board. All grievances regarding evaluation, including the internal assessment marks awarded for the students, are redressed by the respective teacher and HODs. In university, there is a provision for re-evaluation/recounting for end term examination and through RTI.

2.6 Student performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If, “yes” give details on how the students and staff are made aware of these?

Yes

In the recent years, institutions of higher education across the country have recognized that a full commitment to teaching and learning must include assessing and documenting what and how of students' learning and use of this information to improve the education. When we articulate the main goals for a course, we need to see whether students have achieved them, and then use the results to make our courses better. Learning Outcome Assessment is the process of collecting information that tells an organization whether the services, activities, or experiences it offers have the desired impact on those who are using them.

The institute had already applied for NBA accreditation of our two UG Engineering programs. Definition, assessment and evaluation of the program outcomes is mandatory for the NBA accreditation. The students and the faculty are made aware of the learning outcomes for each course which is clearly indicated in the curriculum provided to the students.

Faculty is best suited to determine the intended educational outcomes of their academic programs and activities, How to assess these outcomes, and how to use the results for program development and improvement is a part of student evaluation. The results of Outcome Assessment are used to evaluate the effectiveness of academic programs and activities, and student services, and not the performance of individual faculty or staff. Faculty use the information collected to develop and improve academic programs.

Institute has clearly stated their learning outcomes in the form of Course Outcomes and Program Outcome (COs/POs) for each subject and Program. The students and staff are fully aware of the COs/POs as these are displayed on website and display board.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

- The student's performance is closely monitored by their respective faculty mentors /Proctors. The mentors interact with the Head of the

department to suggest remedial actions such as extra classes and tutorials.

- Two mid-term examinations are conducted during the semester. These examinations are subjective. The faculty evaluates the students through these two mid tests and assignments during the semester. Question papers for these midterm examination are set by the subject coordinator nominated by the University.
- The record of the whole evaluation process is transparent. The answer books are shown to the students. Internal marks are displayed on the notice board.
- The HODs arrange for informing the parents the marks of the students who do not perform well in the term exams along with their class attendance. The parents are informed through letters and telephonically (for academically weak students).
- An end term examination of three hours duration is conducted by the GGSIPU University for each course. This forms the third and final i.e. component and the maximum mark for the final component is 75. The End term paper is set by the University and is same for all the affiliated institutes.
- For practical examinations, the exams are conducted by an internal examiner and an external examiner appointed by the GGSIP University. A candidate is assessed on the basis of knowledge, skills and operation involved and results including calculations and reporting.
- For the major/minor project for the final year students, right from the initial stages of defining the problem, the candidate has to submit the progress reports periodically and also present the progress in the form of presentations in addition to the regular discussion with the guide, faculty member of the department and the HOD.
- A candidate's performance is a sum of all three components (two midterm and one end term) in terms of scores the sum of all three components is a maximum of 100 marks.
- Upon successful completion of the degree a final consolidated mark sheet is provided to the candidate by the GGSIPU University. The provisional and degree certificates are awarded by the GGSIP University.
- The parents are informed about the performance of the students telephonically, through emails, during parent teachers meeting and through institute's website, etc.

The student's results/achievements (Programme/Course wise for last three years)

Programme	2012 Pass out batch	2013 Pass out batch	2014 Pass out batch	2015 Pass out batch
B.TECH(CSE)	89.76	98.35	100	100
B.TECH(ECE)	92.86	95.76	99.12	100
B.TECH(IT)	94.03	100	100	100
B.TECH(EEE)	93.10	96.49	98.03	94.82
B.TECH(CSE) 2 nd Shift		100	100	100
B.TECH(IT) 2 nd Shift		94.44	100	100
B.TECH(ECE) 2 nd Shift		-----	----	100

Student's Achievements

University Topper

Name of Student	Batch	Branch
Ankit Jain	2008-2012	IT
LakshaySuri	2009-2013	ECE
Akanksha Gupta	2010-2014	CSE
ShilpaSetia	2010-2014	IT
AnkitViz	2010-2014	EEE

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

The Institute aims to help students to reach their potential through the provision of a supportive, vibrant and challenging learning environment.

- All the staffs are involved in the construction of this learning environment. All students are valued equally during their learning journey with institute. Accordingly, the curriculum, teaching and learning and assessment at institute are student centric.
- The Institute has formulated academic committees that aim at enhancing the quality of learning, teaching and assessment across the Institute by providing academic leadership for the continued development of excellence in academic practice.

- Every department has its well-defined program outcome and course outcome. The student and faculty members are well aware of the program outcome and course outcome as they are readily available on website and display board. The COs/POs attainment along with course exit survey calculated by every faculty member for each course to monitor the learning outcome of the students in the respective subject.
- The Institute is committed for creating an environment where students are supported to achieve their potential and work towards creating an inclusive learning community.
- In terms of lifelong learning this strategy is intended to be learner centric, recognizing student's prior learning, experience and abilities.
- This requires the identification of individual learning goals and emphasizes the importance of reviewing student progress against agreed objectives.
- Students are active partners with shared responsibilities for their own learning and achievement. This strategy recognizes the need to develop progressively self-directed and confident learners with the knowledge, skills, attitudes and values, which enhance their employability and progression opportunities. It acknowledges that students learn most effectively if they are supported as individuals to achieve personal development.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (quality Jobs, entrepreneurship, innovation and research aptitude) of the courses offered?

- Every institute has social as well as economic responsibility. The courses run by institute have both social and economic relevance. Institute understands its responsibility in the socio economic parameters.
- Students are guided regarding the future prospects of various options. Further they are sensitized to the social responsibilities through guest lectures and motivational talks.
- The students are motivated through personality development programmes.
- Students are encouraged to organize and participate in activities for social and community service within and outside the campus such as Blood donation camps.
- Institute has Prakriti a student's community which addresses the environmental concern regularly among the students and faculty. Prakriti, the eco club of MSIT, was founded on 3rd March, 2010, in the wake of need for a institute society that aims at promoting and increasing environmental consciousness, awareness and responsibility

amongst the institute youth and the populace. As a non-profitable society, Prakriti is committed to the belief that solutions are more effective and enduring when they involve mass local participation in planning and implementing projects. Prakriti also exists to support and strengthen NGOs (such as Goonj) and rural or urban communities (like Lions' Club) that work towards betterment of the society. Through its various programs, Prakriti provides institute students opportunities to develop problem-solving, decision-making and leadership skills, which enables them to participate in future community developments as engaged and active citizens.

Visit us at : prakriti.msit.in.

- The Institute through the orchestrated efforts of teachers, supporting non-teaching staff and administrative officers has been generating highly skilled employable and socially responsible man power.
- Final year research based project and technical paper writing based on the research projects helps the students to get admission in foreign universities for higher education.
- Institute has developed self-reliant, enterprising and employable human resource.
- Many industrial houses conduct job placement in the institute campus. Students are placed with various reputed companies like Microsoft, Snap-Deal, TCS, IBM, Infosys and many more.
- The institution has established an E-Cell that teaches the students on how to establish their own businesses and be “job givers” and not “job seekers”.

2.6.5 How does the institution collect and analyse data on student learning outcomes and use it for planning and overcoming barriers of learning?

Institution has specified procedure to collect and analyze data on student learning outcomes; the following points are adopted by the institute in this context:

- Midterm and continuous evaluation comprising of internal tests, assignments, group discussions and seminar presentations.
- Tutorials, class tests
- Viva-voice in the lab
- Annual system of examination for all courses.
- Course exit survey

Institute has taken following steps to overcome barriers:

- Providing Question bank of various subjects to the students.
- Providing Lecture notes through online portal MOODLE.

- Timely redressal of student's grievances.
- By showing answer books to students to make them understand their relative strengths and weaknesses.
- Minimum attendance limit for students to minimize absenteeism.
- Extra classes for weak students to solve their problems.

The periodic evaluation of teachers helps in the improvement of learning outcome. The regular evaluation of the teachers by the students, feedback on teaching methodologies, course delivery, attitude, strengths and weaknesses, difficulties faced in the subject give a clear idea about the problems faced by the students. These issues are then addressed by the Management Review meetings and the corrective measures/ suggestions are implemented under the guidance of the Director with the consent of the management.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

The institution has a clearly defined, set mechanism to monitor the learning outcomes. At the start of academic year the faculty members of every department prepare the course outcome of their respective subject. The teaching learning practice is followed by the teacher to meet this defined course outcome. There are specified program outcome of each undergraduate programme. The attainment of these course outcomes are mapped with the program outcome to ensure that there should be no gap in attaining these program outcome.

Following steps has been taken to ensure the achievement of learning outcomes

- At least 75% Attendance is compulsorily in each semester.
- Tutorials and laboratory hours are fixed as per the guidelines of the university. The tutorials and assignments are corrected within a short duration and the marks are entered in work register, which acts as a ready reckoner for the academic progress of the students. In every lab hours the viva-voice of the students is taken to judge the understanding of the students in the practical work carried out by them. The Lab assessment sheets are filled by the faculty members for accessing the performance of the students during lab hours in terms of punctuality, understanding, timely file correction etc.
- Based on the participation in the class and the marks scored in the tutorials and assignments, the student level is judged by the faculty member and appropriate action is taken. At the end of each end term examination, progress reports which consist of midterm test results and attendance status are submitted to the proctor for further action.
- Counselling is given to slow learners through the proctor and mentor. Parents of such students are called to meet their respective faculty

member, if required. During this continuous assessment, students who lag in these courses are given additional help and guidance. They are also given additional lab practice. The faculty members are encouraged to conduct surprise tests, quizzes, etc. to monitor the academic progress of each student.

2.6.7 Does the institution and individual teachers use assessment/evaluation as an indicator for evaluating student performance, achievement of learning objectives and planning? If “yes” provide details on the process and cite a few examples.

YES.

- The institution uses assessment and evaluation both as an indicator for evaluating the performance of students. The students who excel in the academics, sports or extra-curricular activities are given due advantage with extra support from faculty member. General classroom behaviour of the students is also kept in mind when evaluation of a student is undertaken.
- Every department has its well-defined program outcome and course outcome .The student and faculty members are well aware about the program outcome and course outcome as they are readily available on website and display boards. The COs/POs attainment along with course exit survey calculated by every faculty member for each course to monitor the learning outcome of the students in the respective subject.

Example: Students are assessed on the basis of their performance in the internal examinations and classroom/lab activity regularly. Every teacher maintains the course attainment sheet by giving due weightage to regularity, writing skills, their understanding in the subject/experiment taught etc. If any gap has been identified the corrective measure has been taken by the faculty to fill the GAP. Performance of students in soft skills is also taken into consideration for assessing the performance. These aspects are discussed in the class and laboratory by the respective class teacher. The institute has the provision of meeting with class representatives in which Director General, Director, HODs discuss various issues and areas of improvements identified. The outcome of the meetings is used to take up remedial measure such as extra classes, counselling and review of teaching learning process.

Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.

To ensure a student centric learning, the institution adopts the following best practices in respect of teaching, learning and evaluation process:

- The institution is achieving its goals and objectives through well chalked out academic calendar which is distributed well before the commencement of the academic sessions to the students and teachers.
- Complete transparency in admission, evaluation, faculty recruitment and administration.
- Appointment of proctors and mentors for continuous monitoring and assessment.
- Lecture method is supplemented by the ICT.
- Organizing seminars, workshops, industrial visits and industrial visit.
- Highly qualified and experienced teachers.
- Courses commence with Orientation Programme.
- Conducting periodic class tutorials and home assignments.
- Organizing group discussions, presentations.
- Organizing revision lectures.
- Encouraging advanced learners to participate in various Curricular and co-curricular activities.
- Providing handouts to facilitate slow learners or advanced learner to have deep insight into the subject matter.
- Felicitating meritorious students by rewarding them on Annual Day.
- The student attendance is communicated to the parents by means of SMS and uploading of data on the Institution website.
- Internal vigilance squad is appointed during examinations to curb malpractices.
- Teachers are evaluated regularly in every subject by the students through online feedback system.
- Continuous assessment enables effective performance of the student.
- Students undergo industrial training in partial fulfillment of the curriculum which helps them to understand the practical aspect of their education.
- Smart classrooms with LCD, Projectors, Speakers, etc are provided in all departments.

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

At present we do not have any recognized research centers in the Institute, but we are planning future collaboration with IITs and NPL in this regard.

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

The Institute already has a research advisory board which continuously monitors and addresses the issues of research work in the Institute. For the Satyam journal we have the Advisory boards of researcher and technocrats. Namely:-

Sr. No.	Name	Department/ Designation	Organization
1	Prof. Vikram Kumar	Ex. Director	CSIR National Physical Laboratory New Delhi
2	Prof. S. D. Joshi	Department of Electrical Engineering	IIT Delhi
3	Prof. Abdul Quaiyum Ansari	Department of Electrical Engineering	Jamia Milia Islamia, Delhi
4	Prof. Saroj Kaushik	Department of Computer Science and Engineering	IIT Delhi
5	Dr. Rajendra Singh	Department of Physics	IIT Delhi
6	Mr. Arun Kudale	Mg. Director	Kudale Instruments Pvt. Ltd. Pune

They guide us from time to time.

Recommendations of the Research Advisory Board are as follows:

- i. The faculty members should publish their research work in the refereed journals.
- ii. The students should also do the research work in collaboration with faculty members in their respective research areas.
- iii. The management should provide the faculty members with the proper incentives for their research work.
- iv. Better research facilities should be provided in the campus to motivate the faculty members and the students.

Impact of the recommendations:

- i. Two projects are in progress and funding of Rs. 5 lacs has already been received. Work has already been assigned to the team members. The project is sponsored by Department of Electronics and Information Technology (DEIT). The second project “Design and Development of High-G-MEMS switches” is sponsored by MSIT.
- ii. The Institute publishes its own research Journal named “Satyam- MSIT Research Journal” for the last four years. The journal invites from and publishes paper the faculty members as well as students from Delhi and NCR region.
- iii. Many faculty members are encouraged to attend the seminars and workshops of their respective interests.
- iv. More research publications are done by the faculty members as well as by the students in the referred journals, conferences and seminars.
- v. The students of this institute won various prizes at the university project competitions.
- vi. More FDP’s and workshops are being organized by different departments on regular basis.
- vii. Some faculty members got themselves registered in different Universities and guiding the PhD. Students under them.
- viii. Study leaves are provided to the faculty members to pursue the Ph.D. course work. The faculty members are given special casual leaves to coordinate with their respective Ph.D. supervisors.
- ix. Student groups are made to do research under the supervision of the Faculty

member and the Senior Faculty members continuously monitor the progress of the research work.

- x. Presently there are 28 number of faculty members who have Ph.D. degree and 49 number of faculty members are pursuing Ph.D. Last year 05 Number of faculty members have been awarded Ph.D. degree and 4.number of faculty members have submitted their Ph.D. thesis.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?

- i. Adequate infrastructure and facilities are provided to the faculty as well as Students to do their research work efficiently and on time.
- ii. Financial help in terms of registration fee and traveling allowance is also provided to the faculty members to publish their research work in refereed Journals or conference proceedings.
- iii. Academic leaves are also provided to the faculty members to pursue the Ph.D.
- iv. Two special leaves are provided to the faculty members to meet their supervisors and discuss the yearly progress of their research.
- v. Interactive sessions of the faculty members are organized with eminent professors / professionals from IIT's, NIT's and industries to provide an environment to exchange their views on the latest technical/ research areas.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

- i. The Institute conducts various expert lectures, seminars and workshops on the latest technologies to create the awareness among the students about the current and future technical / research development.
- ii. The progress of the research oriented minor and major projects for the final year students is monitored through a monthly progress report and presentation. The students are required to present their work to their teachers and evaluation is done as per the departmental rules and regulations.
- iii. For the proper documentation of the seminar reports , minor and major project reports which are mostly research related documents, each department constitute a committee, which prepares necessary guidelines for these documents and motivates the students to follow the prescribed formats and publish their research work/paper, based on their projects, in collaboration with the faculty members.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.

List of Faculty Members who are guiding the research scholars under various departments:-

Sr. No.	Name of Faculty Member	Dept.	Number of Research Scholars
1	Dr. Meena Tushir	EEE	03
2	Dr. Poonam Bansal	CSE	05
3	Dr. Prabhjot Kaur	IT	02(M. Tech.)
4	Mr. Tajinder Singh Arora	ECE	01(M. Tech.)

List of faculty members, who are involved in Collaborative research activity, is as follows:-

Sr. No.	Faculty Name	Area of Research	Organization Associated with
1	Mr. Naveen Dahiya	CSE	YMCATU, Faridabad
2	Mr. Sitender	IT	Thapar University, Patiala
3	Mr. Adeel Hashmi	CSE	JMI University, Delhi
4	Ms. Nishtha Jatana	CSE	GGSIPO, Delhi
5	Ms. Sunesh	IT	GGSIPO, Delhi
6	Ms. Tripti Rathee	IT	BMU, Rohtak
7	Ms. Minakshi Tomer	IT	BMU, Rohtak
8	Ms. Bharti Sharma	CSE	BMU, Rohtak
9	Ms. Saba Khanum	IT	BMU, Rohtak
10	Mr. Sushil Kumar	ECE	UTU, Dehradun
11	Mr. Pardeep Sangwan	ECE	UTU, Dehradun
12	Mr. T.S. Arora	ECE	UTU, Dehradun
13	Ms. Shaifali Madan	ECE	GGSIPO, Delhi
14	Mr. Dinesh Sheoran	ECE	UTU, Dehradun
15	Ms. Neeru Rathee	ECE	GGSIPO, Delhi
16	Ms. Aman Kr.	ECE	IFTMU, Faridabad

	Dahiya		
17	Ms. Neetu Sehrawat	ECE	NIT, Delhi
18	Ms. Pragti Dahiya	ECE	DTU, Delhi
19	Ms. Ruchika Kumari	ECE	IGUTUW, Delhi
20	Mr. Sandeep Singh	ECE	UTU, Dehradun
21	Ms. Asha	ECE	Lingayyas University
22	Ms. Kavita Sheoran	CSE	GBU, G. Noida
23	Ms. Geetika Dhand	CSE	Manav Rachna International University
24	Ms. Savita Ahlawat	CSE	MDU, Rohtak
25	Ms. Amita Yadav	CSE	Manav Rachna University
26	Ms. Sonia Rathee	CSE	MDU, Rohtak
27	Ms. Vinita Rohilla	CSE	Sharda University
28	Ms. Sapna Malik	CSE	Ansal University
29	Ms. Shalu	CSE	DCRUST Murthal, Sonapat
30	Ms. Shalini Jain	CSE	MNIT Jaipur
31	Ms. Priyanka Nandal	CSE	IIT, DELHI
32	Mr. Sandeep Kumar	CSE	MDU Rohtak
33	Ms. Jyotsna Nigam	IT	Ansal University
34	Ms. Jyoti Khurana	IT	Ansal University
35	Ms. Shivanka	IT	Ansal University
36	Mr. Surender Bhanwala	IT	NIT, Kurukshetra
37	Ms. Sonika Malik	IT	NIT, Kurukshetra
38	Ms. Vinita Malik	IT	DCRUST Murthal, Sonapat
39	Ms. Preeti Rathee	IT	GGSIU, Delhi
40	Ms. Jyoti Jain	EEE	DTU, Delhi
41	Ms. Rakhi Kamra	EEE	NIT, Kurukshetra
42	Ms. Shilpam Malik	EEE	NIT, Kurukshetra
43	Mr. Yogender Arya	EEE	DTU, Delhi
44	Ms. Nidhi Gupta	EEE	DTU, Delhi
45	Ms. Monu Malik	EEE	NIT, Kurukshetra
46	Mr. Pankaj Dahiya	EEE	NIT, Delhi
47	Mr. Mohit Deswal	ME	DTU, Delhi
48	Ms. Reenu Kumari	Math	JIIT, Noida

3.1.6 Give details of workshops/ training programs/sensitization programs conducted/organized by the institution with focus on capacity building in terms of research and imbining research culture among the staff and students.

The different departments of the institute organizes a large number of research related activities in the form of workshops, seminars, and conferences in collaboration with various IIT's, NIT's and industrial organizations, for the students and faculty members. A list of the events conducted by the institute departments in the last four years is given below:

Department of Computer Science and Engineering

Sr. No.	Event Description	Date	Target Audience	Resource Persons	Funded By	Usage and Citations etc
1	Seminar on "Internship and research opportunities".	20 th August ,2012	1st and 2nd year students	Mr. Akash Dang and Mr. Anubhav Tyagi, Vice Chairperson, IEEE MSIT.	IEEE	Internship and research opportunities
2	Seminar on "Master in engineering management and planning and preparing CAT 2012"	5 th September, 2012	3 rd and 4 th year students	IMS faculty	Free	Master in Engineering Management and planning and preparing CAT 2012
3	Seminar on "ARM7 CORTEX 3"	10 th September , 2012	Faculty and students	Faculty MSIT	MSIT	Architecture and computational power of ARM microcontr

						ollers
4	Workshop on “Android applications and development”	11 th & 12 th September, 2012	Faculty	Mr. Ravi Upadhayay	MSIT	Android
5	IEEE MSIT celebrated IEEE DAY by organizing Technical Project Exhibition	6 th Oct. 2012	Students	IEEE Member	IEEE	Technical Project Exhibition
6	Workshops on “Robotics and web development (Joomla)”	19 th and 20 th Oct. 2012	Students	IEEE member	IEEE	Robotics and Web Development (Joomla)
7	Annual series of lecture on “FOCAL POINT”	9 th November, 2012	Faculty and students	IEEE member	IEEE	Series of lecture
8	Seminar on the topic “Recent advances in microwave technologies”	17 th November, 2012	Faculty and students	Dr. Ananjan Basu.	IEEE	Microwave Technologies

9	Xquizite, Annual inter college quiz.	20 th November, 2012	Students	IEEE Society members	IEEE	Inter college quiz
10	Workshop on “Speech recognition and image processing”	17 th to 21 st December, 2012	Faculty and students	Academicians	MSIT	Speech Recognition and Image Processing
11	Workshop on “Android Bootcamp”	23 rd - 24 th January, 2013	Faculty and students	IEEE	IEEE-MSIT	Android Bootcamp
12	Lecture on “ WIE Forum of Delhi Section ”	1 st February, 2013	Faculty and students	IEEE	IEEE MSIT	Forum of Delhi Section
13	Annual Meet IEEE	2 nd February, 2013	Faculty and students	IEEE	IEEE MSIT	Annual Meet
14	Workshop on “Twitter bootstrap “	22 nd April, 2013	Faculty and students	IEEE	IEEE-MSIT	Twitter Bootstrap
15	Workshop on “Digital image processing”	9 th - 10 th March, 2013	Faculty and students	IEEE	IEEE-MSIT	Digital Image Processing
16	Seminar on “Android apps and its market”	14 th August, 2013	Faculty and students	Mr. Sagar Suneja	MSIT	Android Apps

17	Closing ceremony of Summer Grand Program	27 th August, 2013	Faculty and students	IEEE	IEEE-MSIT	Summer Grand Program
18	Workshop on “Cern meet the scientist events”	5 th September, 2013	Faculty and students	IEEE	IEEE-MSIT	Cern Meet
19	Seminar on the topic “Android application for social security”	7 th September, 2013	Faculty and students	Mr. Sagar Suneja	MSIT	Android Application
20	Workshop on “ Cloud computing and its components ”	30 th - 31 st October , 2013	Faculty	Mr Anshul Jain	MSIT	Cloud Computing
21	Lecture on “Focal point”	9 th November, 2013	Students	IEEE	IEEE-MSIT	Series of Lectures
22	Seminar under “Star program”	2 nd December, 2013	Students of IEEE Society, MSIT	John C. Crosby	IEEE-MSIT	Star Program

23	A workshop on "Artificial intelligence and machine learning"	10 th - 11 th February, 2014	3 rd year students	Mr. Anshul Jain	MSIT	AI and Machine learning
24	Avensis 2014		Faculty & Students		MSIT	Technical Fest
25	workshop on "HTML-5"	12 th - 13 th April, 2014	Inter College Students	IEEE members	IEEE-MSIT	HTML-5
26	Workshop on "Implementation of sensor networks using NS2"	25 th & 26 th April, 2014.	Faculty	Mr. Omesh Yadav, NEX-G Technologies	MSIT	Sensor networks using NS2
27	Report-Talk on "Microsoft internship program"	12 th - 13 th Aug, 2014	Students	Ayush and Amit (Final year students MSIT)	MSIT	Student Talk
28	Seminar on "How to crack CAT exam"	20th Aug, 2014	CSE Students	Representative from Ankaganit	Free	CAT exam preparation
29	Red Hat Linux administrati	14th Oct,	Faculty	Mr.Santosh Gupta	Free	Red Hat Linux

	on	2014				
30	Workshop on “Big data and hadoop”	31 st Oct- 1 st Nov, 2014	Faculty	Mr. Omesh Yadav	MSIT	Big Data and Hadoop
31	Hackathon	Jan 2015	All CSE & IT students	IEEE CS chapter and Hackerearth	MSIT	online hacking competition
32	Expert Lecture in “Wireless networks”	28 Feb, 2015	Faculty	Dr. Amita Malik, Dr. Sanjay Malik	MSIT	Wireless Networks
33	Avensis 2015	25 th -26 th March 2015	Faculty & Students		MSIT	Technical Fest
34	Genesis 2015	27 th March 2015	Faculty & Students		MSIT	Cultural Fest
35	Seminar on "Emerging trends in information technology "	6th September, 2015	CSE Students 3rd yr.	Mr. Anshul from OSA infosystem	Free	
36	Workshop on	12th September,	CSE Students 2nd	Ms. Ankita from CETPA	Free	Android

	"Android"	2015	yr.	infotech		
37	Workshop on "Robotics"	7th October , 2015	CSE Students 3rd yr., 2nd yr.	i3indya technologies	MSIT	Robotics
38	Seminar on "CAT preparation "	14th October , 2015	CSE Students 3rd yr.	Mr.Ankit Gaur from ANK GANIT	Free	CAT Preparation
39	Seminar on "GRE preparation "	20 th October , 2015	3 rd year all branches	Mr. BIJUY	Free	GRE Preparation
40	TedX event	21 st October , 2015	All Students	Mega Event with no. of eminent speakers	MSIT	
41	Workshop on "Code optimization "	30 th October , 2015	CSE Students (2nd Yr.)	Mr. Manu Lauria from DKOP Labs Pvt. Ltd.	Free	Coding
42	CodeStart	31 st October , 2015	All CSE & IT students	IEEE CS chapter and HackerEarth	MSIT	a coding competition
43	Workshop on "Google Docs"	8 th January , 2016	CSE , ECE Facult	Mr. Navdeep Bohra, MSIT	MSIT	General Purpose

			y			
44	Workshop on “Machine learning”	29 th Jan, 2016	Students interested in research.	IEEE CS chapter	MSIT	General Purpose
45	FDP on “Emerging trends in information technology”	29 th Feb. – 4 th March, 2016	CSE , IT Faculty	Prof. K.L.Chopra, Prof. Sudhanshu Choudhary, Prof. Dhurinder, Prof. M.N. Hooda, Prof. S.K. Garg, Prof. Keher Singh, Prof. Arvinder Kaur, Prof. V.P.Vishwakarma, Ms. Upma Srivastava, Prof. Parimala Prakash, Prof. Daya Gupta	MSIT	
46	Seminar on “Latest techniques in information technology”	9 th March, 2016	CSE 2 nd year and CSE 3 rd year students	Cepta India Pvt. Ltd.	Free	

			ts			
47	HCL Internship Test	11 th March, 2016	CSE 2nd yr and CSE 3rd yr students	HCL Technologies	Free	Internship Exam
48	IBM Internship Test	18th March, 2016	CSE 2nd yr and CSE 3rd yr students	IBM Technologies	Free	Internship Exam
49	Vedic Mathematics	16 th Oct, 2015	Third Year CSE,IT & ECE	Mr. Anurag Head Catalyst	Free	Future planning
50	MBA Preparation	6 th Oct, 2015	Third Year CSE & IT	Mr. Mayank, IMS Gaziabaad	Free	Future planning
51	Personal Interviews	25 th August, 2015	Third Year CSE,IT & ECE	Ms. Aarti Saxena	Free	Future planning
52	Vocabulary development	9 th September, 2015	Third Year CSE,IT & ECE	IMS Gaziabaad	Management	Future planning

53	FDP on “How to Write Research Paper efficiently using LATEX tool”	26 th September, 2015	Faculty Members of MSIT	Dr. Anurag Singh	Management	Research Paper publication
----	---	----------------------------------	-------------------------	------------------	------------	----------------------------

Department of Information Technology

Sr . No.	Event Description	Date	Target Audience	Resource Persons	Funded By	Usage and Citations etc
1	Seminar on “Communication media and internet”	20 th April, 2012	Students	Mr. Himanshu Sharma Bharti Airtel	Management	Career Guidance
2	Seminar on “Web usage mining”	9 th March, 2013	Students	Dr. Sunil Kumar Khatri Ms. Chhavi Rana	Management	Career Guidance
3	Seminar on “Android app and its market”	14 th Aug, 2013	Students	Monograph Publishing Pvt. Ltd.	Management	Career Guidance
4	Seminar on “Microsoft internship preparation”	29 th Aug, 2013	Students	Ms. Jashanpreet Kalra	Management	Career Guidance
5	Seminar on “Latest trends in IT sector”	7 th Sept, 2013	Students	Mr. Ashish Arya SOPRA Group	Management	Career Guidance

6	Seminar on “Do’s and Don’ts for a group discussion”	4 th Feb, 2014	Students	Ms. Sanjmeet Abrol	Management	Career Guidance
7	Seminar on “Preparing for microsoft internship program”	5 th Feb, 2014	Students	Mr. Abhinav Sobti and Ms. shreya	Management	Career Guidance
8	Seminar on “Personal branding and entrepreneurship”	21 st March, 2014	Students	Mr. M.V.Priyank	Management	Career Guidance
9	FDP on “7 Quality control tools”	10 th Nov, 2014	Faculty members MSIT	Sh. Anurag Srivastava Quality Growth Pvt. Ltd.	Management	Faculty enhancement
10	Seminar on Current Trends and Technology	27 th Aug, 2014	Students	CEPTA INFOTECH PVT. LTD.	Management	Career Guidance
11	Seminar on “Tress and anger management and SWOT analysis”	16 th Oct, 2014	Students	Mr. Brijesh	Management	Career Guidance
12	Seminar on Upcoming Technologies in IT	17 th Nov, 2014	Students	Mr. Singh	Management	Career Guidance
13	Seminar on “Agile ways of working in Industries”	30 th Jan, 2015	Students	Mr Ashish Chopra	Management	Career Guidance
14	Seminar on “Software reliability”	21 st March, 2015	Students	Dr. Sunil Kumar Khatri Director,	Management	Career Guidance

				Amity University		
15	Seminar on “Evolution on android development ”	12 th Sept, 2015	Students	Mr. Keshav Jha, Senior Android Trainer, CETPA Infotech	Management	Career Guidance
16	Seminar on “Effective communication- creating your personal branding, facing interviews, building your resume “	30 th Sept, 2015	Students	Mr. Kamal Seth, Chief Happiness Officer and Wioleta Burdzy, Human Circle	Management	Career Guidance
17	Seminar on “Microsoft .NET and first interview tips by industry experts”	16 th Oct, 2015	Students	Credence Corporate Solutions	Management	Career Guidance
18	Seminar on “Entrepreneurial outlook development ”	20 th Oct, 2015	Students	Mr. Kamal Seth, Chief Happiness Officer and Wioleta Burdzy, Human Circle	Management	Career Guidance
19	Seminar on “Inter college Debate on Who plays a vital role in developing a clear/transpar ent society – Citizen or	29 th Oct, 2015	Students	BHEL	Management	Career Guidance

	System?"					
20	FDP on "Emerging trends in information technology"	29 th Feb. – 4 th March, 2016	CSE , IT Faculty	Prof. K.L.Chopra, Prof. Sudhanshu Choudhary, Prof. Dhurinder, Prof. M.N. Hooda, Prof. S.K. Garg, Prof. Keher Singh, Prof. Arvinder Kaur, Prof. V.P.Vishwaka rma, Ms. Upma Srivastava, Prof. Parimala Prakash, Prof. Daya Gupta		
21	FDP on "How to Write Research Paper efficiently using LATEX tool"	26 th Septemb er, 2015	Faculty Membe rs of MSIT	Dr. Anurag Singh	Managem ent	Research Paper publicatio n

Department of Electronics and Communication Engineering

Sr. No.	Title of workshop /Conference /Seminar /Training Program/ Expert Lecture	Resource Person	Organization/ Industry	Date
1	Guest lecture on "Mentorship program"	Mr.Ankit	Oysrer	27 th Aug,

	by Osyter”	Mishra		2012
2	Guest Lecture on “VLSI and embedded training”	Mr.Devender Khari	DKOPS	31 st Aug, 2012
3	Guest Lecture on “Research and nurturing academic”	Mr.Sushil Chandra	DRDO	15 th Dec, 2012
4	One day seminar on “Advances and communication technology”	Mr. R.R Yadav	BSNL	7 th March, 2013
5	Talk on “Employability and challenges”	Mr. Atul Bhatia	Synopsis	14 th Aug, 2013
6	Talk on “IAF as a carrier for engineers”	Mr. S.K Sharma	IAF	23 rd Aug, 2013
7	Lecture on “Target 2020 and beyond”	Mr. T V B Subrahmanyam	Analog Industry	28 th Sep, 2013
8	Seminar on “Emerging trends in embedded industry”	Mr. Anurag Pratap	S T Micro Eletronics	5 th Oct, 2013
9	An interaction of Final Year students with HKUST	HKUST	HKUST	21 st Oct, 2013
10	FDP on “Digital design using Verilog HDL”	Mr. BhanuPratap and Mr. Ashutosh Gupta	Trident Techlabs	17 th -19 th Feb, 2014
11	Workshop on “Industrial component identification”	Sahasra Sambhav Skill Development	Sahasra Sambhav Skill Development	25 th Feb, 2014

12	Round table discussion	Mr. T V B Subrahmanyam	Analog Industry	8 th Mar, 2014
13	Workshop on “Embedded system and robotics”	Mr.Ritesh	RCPL	3 rd Apr, 2014
14	Student Mock Test	Students of 4th Year	MSIT	11 th Apr, 2014
15	Project Competition	Prof. B V R Reddy	GGSIPI	22 nd May, 2014
16	Carrier in EDA tool	Mr. Subrahmanyam	GGSIPI	11 th Aug, 2014
17	Seminar on “Art of Living”	Mr. Rashmin Pulekar	Art of living Foundation	26 th Aug, 2014
18	Seminar on “Higher studies and resume writing”	Mr. Harprit Singh	J E Pvt Ltd	30 th Sep, 2014
19	Seminar' Become an Engineer"	Mr. NarangKishor	Narnix Techno Labs	1 st Oct, 2014
20	FDP on “Human machine communication through speech technology	Prof.(Dr.) S.S Agrawal Director General KIIT, Gurgaon, Haryana	KIIT, Gurgaon	4 th Oct, 2014
21	FDP on “Global positioning system”	Dr. Harish Prathasarathy Professor, Dept. of ECE, NSIT, Dwarka	NSIT, Dwarka	4 th Oct, 2014
22	Project competition	Prof. A K Tyagi	GGSIPI	14 th Nov,2014

23	National Skill Development council Competition	Mr. Ravi Kharbanda	NSDC	16 th -18 th Jan, 2015
24	Workshop on “embedded system”	Mr. Jitender Singh	TICCO	28 th Jan, 2015
25	FDP on “Digital Design Techniques”	Mr. Abhishek Parmar	DRDO	28 th Feb, 2015
26	FDP on “Virtual Reality”	Mr. Sushil Chandra	DRDO	28 th Feb, 2015
27	Seminar on “Embedded C”	Mr. Sanjay Singh	CETPA	23 rd Mar, 2015
28	Seminar on “Industry interaction”	Mr. Taranjeet Kukul	Cadence Design	26 th Aug, 2015
29	Workshop on “Recent technologies in telecommunication”	Mr. SurajDutt	Ericsson	27 th Aug, 2015
30	Workshop on “Modulation scheme”	Mr. Sukhvinder Singh	Inception Academy	7 th Oct, 2015
31	Workshop on “Manual control bots”	Mr. Ayush	MSIT	22 nd Jan, 2016
32	Seminar on “Art of Living”	Mr. Rashmin Pulekar	Art of Living, Foundation	5 th March, 2016
33	Workshop on “Embedded system”	Mr. Sanjay Singh	CETPA	15 th March, 2016
34	Seminar on “Career opportunities (PSU) by T.I.M.E.”	Mr. Chandan Baranwal	TIME	7 th April, 2016
35	Mock test for 3rd year Students	Final Year Students	MSIT	8 th April, 2016

36	Workshop on “Verilog and FPGA”	Mr. Rakesh Gupta	3ST Technologies Su	12 th April, 2016
37	FDP on “Artificial neural network”	Dr. Maitreyee Dutta Dr. Renu Vig Dr. H.K Sardana Dr. Lini Mathew	NITTTR, Chandigarh	25 th - 29 th April, 2016

Department of Electrical and Electronics Engineering

S. No	Seminars/conferences/workshops organized	Resource Person	Date	Audience
1.	Intelligent Tools for Various Engineering Applications	Prof. Smiriti Srivastava, NSIT Dr. Madhu Sudan Singh, DTU Mr. Saurabh Bhardwaj, NSIT	9 th -10 th April, 2012	Faculty Members of EEE
2.	FDP on “Research challenges & emerging trends in electrical engineering”	Prof. Smiriti Srivastava, NSIT Prof. S. Kumar Mishra, IIT Delhi Prof. Rachna Garg, DTU	25 th Feb, 2015	Faculty Members of EEE
3	Seminar on “Solar power projects”	Mr. Sanjay Srivastava, Bechtel India Pvt. Ltd.	15 th March, 2013	Students of EEE
4	Visit to GRIDTECH2013	GridTech, Pragati madain ,New Delhi	4 th April, 2013	Students of EEE

5	Prospectus of Summer Training	Mr. V.K.Saina,Max Academy	21 st March, 2013	Students of EEE
6	Mock Interview	Er. Romil Kumar	30 th Aug, 2013	Students of EEE
7	Mock Interview	Sh. B.D. Prasad	27 th Sep, 2013	Students of EEE
8	Mock Interview	Mr. V.K.Saina	16 th April, 2014	Students of EEE
9	Seminar on “Switchgear & its protection”	Mr. Mridul Gupta, C&S Electrical	4 th Oct, 2013	Students of EEE
10	Seminar on “Industrial automation”	Sofcon India Pvt. Ltd	21 st Oct, 2013	Students of EEE
11	Seminar on “Inverter converter applications	Mr. Vishal Puri & Mr. Dharamveer Singh, Arise India Pvt. Ltd.	12 th Nov, 2013	Students of EEE
12	Seminar on “Auto-cad”	CADD Center	3 rd Feb, 2013	Students of EEE
13	Seminar on “Emerging opportunities for EEE students”	Mr. Pradeep joshi, Mr. Bhanu Prasad, Dr. Su Kumar	30 th April, 2014	Students of EEE
14	Seminar on “Real world”	Mr. Mahesh Gupta, Eriscon India Pvt. Ltd.	26 th Nov, 2014	Students of EEE
15	Seminar on “Basics of Grid”	Basics of Grid connected and OFF Grid Solar Solutions	13 th Oct, 2014	Students of EEE
16	Seminar on “Industrial automation”	Cepta India Pvt .Ltd	11 th sept, 2015	Students of EEE

17	Workshop on PLC	Futuronix	16 th Oct, 2015	Students of EEE
----	-----------------	-----------	----------------------------------	--------------------

3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

The institute motivates all the faculty members and the students to do research in different domains. Some of the prioritized research areas and the expertise available in the institute are listed below:

Sr. No.	Name	Designation	Department	Specialization Field
1	Prof. B.S. Panwar	Director General	ECE	Signal Processing
2	Prof. K.P. Chaudhary	Director	EEE	Electronic Instrumentation
3	Prof. Poonam Bansal	Professor	CSE	Speech Technology
4	Dr. Puneet Azad	Associate Prof.	ECE	Wireless Sensor Networks
5	Dr. Archana Balyan	Associate Prof.	ECE	Speech Processing
6	Dr. Sudesh Pahal	Assistant Prof.	ECE	Wireless Field
7	Dr. Koyal Datta Gupta	Associate Prof.	CSE	Wireless network
8	Dr. Naresh Kumar	Assistant Prof.	CSE	Web Crawling
9	Dr. Tripti Sharma	Associate Prof.	IT	Wireless Sensor Networks
10	Dr. Prabhjot Kaur	Assistant Prof.	IT	Data Mining and soft Computing
11	Dr. Suman Mann	Associate Prof.	IT	Data Warehousing
12	Dr. Anupama Kaushik	Assistant Prof.	IT	Software Engineering
13	Dr. Meena Tushir	Associate Prof.	EEE	Soft Computing Techniques in identification and

				control of Linear and non-Linear system
14	Dr. Brijpal Singh	Reader	ME	Production Engineering

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

The Institute motivates the faculty as well as the students to invite the expert speakers from various reputed organizations to conduct various technical activities in the campus. The management provides full support in organizing such events in the form of infrastructural as well as financial help.

Some of the eminent researchers like Prof. S.K. Mishra, Prof. K.L.Chopra, and Prof. Sudhanshu Chaudhary, all from IIT Delhi, visited the Institute and shared their knowledge with the faculty members of the institute in the form of a Faculty Development Program organized by the institute. They discussed various research areas that the faculty can pursue. Besides, Prof. Smiriti Srivastava from NSIT, Prof. Rachna Garg from DTU also visited the campus and discusses various possible areas of research. Prof. Parimala Prakash from JNU, Delhi and Prof. Daya Gupta from DTU Delhi also visited the campus related to research activities.

Different professional student groups of the institute such as IEEE MSIT student branch, E-Cell, and Technocrats etc. organizes technical events on a regular basis.

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

The institute provides better opportunity to the faculty members to pursue higher studies. It provides various facilities such as study leaves to the faculty members who are pursuing M. Tech/PhD and other research work. A list of the faculty members who opted for study leaves for their higher studies are given below:-

S. No.	Name	Dept.	Sponsored/Own Accord	Deputation for Higher Study
1	Mr. Pankaj Dahiya	ECE	Own Accord	Pursuing Ph.D. from NIT Delhi
2	Ms. Pragti	ECE	Own Accord	Pursuing Ph.D. from

	Dahiya			DTU Delhi
3	Ms. Vinita Malik	IT	Own Accord	Pursuing Ph.D. from DCRUSTM
4	Ms. Rinki Diwedi	CSE	Own Accord	Thesis Submitted
5	Ms. Shalini Jain	CSE	Own Accord	Pursuing Ph.D. from MNIT Jaipur
6	Ms. Priyanka Nandal	CSE	Own Accord	Pursuing Ph.D. from IIT Delhi
7	Ms. Sonika Malik	IT	Own Accord	Pursuing Ph.D. from NIT Kuk.
8	Mr. Surender Bhanwala	IT	Own Accord	Pursuing Ph.D. from NIT Kuk.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

The institute provides the financial help to present and publish research papers in various reputed conference proceedings and Journals.

The details of the faculty members who availed this facility is last four years is given below:

S. No.	Faculty Name	Paper Title	Conference/Journal	Dated	Deptt.
1	Ms. Meena Rao	“Routing Challenges in Mobile Adhoc Networks: A Survey”	International Congress	20 th March, 2013	ECE
2	Ms. Meena Rao	Quality of Service Enhancement in MANETs with an Efficient Routing Algorithm”	IACC2014	15 th Feb, 2014	ECE
3	Ms. Richa Gupta	Cylindrical Inhomogenous Dielectric	International Conference INDIACOM-2014	11 th March, 2014	ECE

		Magneto-Hydro-Dynamic Antenna			
4	Dr. Archana Balyan	Basic and Advanced Tools and Techniques for contemporary Research	FDP	4 th -5 th July, 2014	ECE
5	Ms. Shaifali Madan Arora	New Dynamic Pattern Search Based Fast Motion Estimation Algorithm	International Conference	4 th Oct, 2014	ECE
6	Ms. Richa Gupta	“ Reconfigurable Aperture coupled Rectangular Dielectric Resonator Antenna	IEEE International Conference INDIACOM-2015	16 th Oct, 2014	ECE
7	Dr. Archana Balyan	Development and Implementation of TTS”	IEEE international Conference INDIACOM-2015	13 th Feb, 2015	ECE
8	Ms. Meena Rao	Performance Evaluation of Multimedia Transmission in MANETs for AODV nthBR Routing Protocol	International Conference-2015	11 th April, 2015	ECE
9	Ms. Richa Gupta	Superstrate Embedded Hybrid MHD Antenna	IEEE INDACOM-2015	24 th Sept, 2015	ECE
10	Mr. Tajinder Singh Arora	Realization of Current Mode KHN-Equivalent Biquad Employing Third Generation Current Conveyor	IEEE ICCTICT-2016	11 th Jan, 2016	ECE
11	Ms. Jyoti Jain	Effect of Population and Bit size on Optimization	IEEE INDIACOM-2016	7 th April, 2016	EEE

		function by Genetic Algorithm			
12	Dr. Meena Tushir	TS Model for Identification and Prediction of non-linear system	CIMrME2016	22 nd March, 2016	EEE
13	Mr. Sunil Gupta	Information Modeling for Distributed Energy Resource Integration in IEC 61850 based Substations	IEEE, INDICON2015	21 st Dec, 2015	EEE
14	Ms. Jyoti Jain	Power Quality	IEEE Workshop, IIT Delhi	26 th Nov, 2015	EEE
15	Ms. Nidhi Gupta	Power Electronics NWPE-2015	Workshop, DTU	20 th April, 2015	EEE
16	Ms. Shilpam Malik	Power Electronics	Workshop DTU	30 th Oct, 2015	EEE
17	Dr. Meena Tushir	Performance Assessment of Kernel based clustering	International Conference on Computational Intelligence, Cyber Security Models	31 st Dec, 2013	EEE
18	Ms. Sapna Singh	Matlab and Robotics	Workshop	23 rd Oct, 2013	EEE
19	Mr. Yogender Arya	Advances in Electrical Power and Energy Systems	National Conference	12 th Aug, 2013	EEE
20	Ms. Nidhi Gupta	Computational Intelligence Theories, Applications and Future Directions	Workshop	25 th June, 2013	EEE
21	Ms. Jyoti Jain	Computational Intelligence	Workshop	4 th July, 2013	EEE

		Theories, Applications and Future Directions			
22	Ms. Rinky Dwivedi	Emerging trends in Software Engineering, DTU	Workshop	Apr, 2012	CSE
23	Ms. Rinky Dwivedi	21 st Century teaching Learning systems, BVICAM	FDP	Mar, 2013	CSE

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research?

Give details of major heads of expenditure, financial allocation and actual utilization.

Every year the institute allocates the budget for research and development under various financial heads. The details given below come under Seminar, Internet Expenses, Wifi Connectivity, Faculty Development, Library- Journals/ Periodicals, Library E-Journals, Machines, Equipment and Computers including Software of the last four financial years.

Academic Year	Finance Allocated (in Rs.)	Actual Utilization(in Rs.)	% of Total Budget
2015-16	Rs. 7300000	**	3.135
2014-15	Rs. 9300000	Rs.5942247	2.4167
2013-14	Rs. 11800300	Rs.6799355.95	5.825
2012-13	Rs. 10590061	Rs.8570720	6.47

**Since the final audit reports will be generated in June/July so the details for the session 2015-16 actual utilization, total budget utilized will be available in June/ July.

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

No direct seed money is provided for the research, but the registration fee and travelling allowance for publishing papers in Journals/Conferences and fee for participation in seminars and workshops is provided to faculty members and a list is already provided in section 3.1.10.

3.2.3 What are the financial provisions made available to support student research projects by students?

Students are motivated to do research projects in collaboration with faculty members and their requirements for the research projects is fulfilled by the Institute from time to time in the form of reimbursement of paper publication fee and other assistance. The faculty may also sponsors the student for research depending on his/her interest in the project.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

The institute provides the students a platform to carry out inter-disciplinary activities in the form of IEEE MSIT student chapters, Google Developers Group, Techno-cratz, E-Cell, TED-X, Genesis, ENVA (**Annexure-3.1**) etc. Under these groups the students from different departments interacts with each other and conduct various activities like Technical project Exhibition, seminars, workshops, GDs, personal interviews etc. These activities help them to understand how they can apply their skills to solve different discipline problems and develop projects.

The students are also motivated to do Minor and Major Projects in inter-disciplinary fields due to easy access of the software and hardware resources and guidance from different departments in the institute.

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

The Institute provides high speed (50 Mbps) internet facility in the campus to both faculty and students to access the various online research journals, magazines and other electronic information for their research work.

The institute provides full licensed MATLAB software and the ORACLE Server for the research work in the campus.

To access efficiently the central library, the institute has a Web-OPAC (Online

Public Access Catalog) software facility on the entire computer Terminals available at Central Library and Book-Bank. Computer systems with latest configuration are provided in the various labs of different departments. The ECE department developed a dedicated project lab for the research work in Room no 104.

All the instruments are calibrated from time to time. Online journal subscription to various reputed journals like IEEE journals, Science Direct Journals, Springer link, J Gate etc. is available on the college IP provided to all the students and faculty members.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

At present the Institute is not receiving any grants or finances from industry or other beneficiary agency for the research facility, but the faculty is motivated to do research in collaboration with IITs and NPL and we are in a process of receiving grants from IITs and NPL in near future.

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

Faculty Name	Year wise	Number	Name of Project	Name of funding agency/industry	Total grant received
					Rs. Lac
Prof. K.P. Chaudhary	20-03-2012 to 31-03-2014	CLP 003732	NABL-NPL Proficiency Testing Project	NATIONAL ACCREDITATION BOARD OF LABORATORIES	185.05000/-

	25-05-2010 to 31-08-2012	CNP100132	guidelines in implementing of Quality System in Dimension parameters as per ISO/IES 17025	M/s SIMCO Calibration laboratory Hyderabad	1.37048/-
Prof. BS Panwar	2016-17	1	Design and Development of High-g MEMS Based Switch	DRDO Laboratory: Terminal Ballistic research Laboratory (Chandigarh)	31.75 Lacs
	2014-2017	1	“ Design and Development of MEMS Based Wideband Energy Harvesting SoC for Cellular Application	Department of Electronics and Information Technology	73.1 Lacs
	2011-2014	1	CMOS Compatible MEMS Sensors for Health Care	Department of Science & Technology	37.71 Lacs
	2008-12	1	Wireless Network Sensors Using SAW Devices	Indo-French Collaborative Programme for Advanced Research	13.42 Lacs

	201 3-15	1	Design and Development of Low Loss Narrow Band surface Acoustic Wave Filters on Quartz Substrate at VHF and UHF for Satellite Communication	ISRO Ahmedabad	23 Lacs
--	-------------	---	---	-------------------	---------

Recently two projects are in progress and funding of Rs. 5 lacs has already been received. Work has already been assigned to the team members. The project is sponsored by DEIT. The second project “Design and Development of High-G-MEMS switches” is sponsored by MSIT.

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

The Institute provides the computer systems with higher configuration in the labs for the students as well as to the faculty members in their cabins with high speed internet connectivity and subscription to various online resources and licensed software Like MAT Lab and some other licensed database software available for the research work.

Some other facilities are listed below:-

OPAC (Online Public Access Catalog): Web-OPAC facility on the entire computer Terminals available at Central Library & Book-Bank.

S. No.	Online Journal Name	No. of Journals	Publisher Name
1	IEEE (ASPP+ POP) {ASPP: All-Society Periodicals Package, POP: Proceedings Order	2864 (169+2695 Journals)	E- IEEE

	Plans }		
2	Science Direct	275 E-Journals	Elsevier
3	Springer Link	149 E-Journals	Springer
4	J-Gate Engineering & Technology (JET)	4532 E-Journals	Informatics
5	McGraw Access Engineering	622 Engineering E-Books	McGraw
6	ASTM Digital Library	1560 E-Journals	ASTM

Not only the online resources but also a large database of the offline material is also provided to the students and faculty members including books, journals, Periodicals, Magazines and newspapers as given below:-

Library holdings	Year -1 2012-2013		Year - 2 2013-2014		Year - 3 2014-2015		Year - 4 2015-2016	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Journals/ Periodicals	88	240241	88	298172	84	245220	84	274322
e- resources	4834	1450061	8933	1558654	9605	1627595	10002	1839428

To publish the research papers of the students and faculty members the institute has its own bi-annual Journal named as “Satyam –MSIT Journal of Research” with ISSN no-2319-7897. The journal publishes the quality research work and it does not charge any publication fee.

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

The Institute takes the yearly budget requirements of each department and allocates the budget for the better planning, upgradation and creating more infrastructural facilities in their respective departments and better environment for research. The management discusses the requirements given by the different departments in Governing Body meetings and then allocates the required funds to the departments/Institute. With these funds new hardware/ software tools are purchased or upgraded regularly. Also the calibration of the existing instruments

is done for efficient utilization of the resources.

Faculty members are asked for the new book requirements and subscription of the new journals and magazines as per the latest research requirements and studies. Some of the online research facilities available in the campus are listed below:-

S.No.	Online Journal Name	No. of Journals	Publisher Name
1	IEEE (ASPP+ POP) {ASPP: All-Society Periodicals Package, POP: Proceedings Order Plans}	2864 (169+2695 E-Journals)	IEEE
2	Science Direct	275 E-Journals	Elsevier
3	Springer Link	149 E-Journals	Springer
4	J-Gate Engineering & Technology (JET)	4532 E-Journals	Informatics
5	McGraw Access Engineering	622 Engineering E-Books	McGraw
6	ASTM Digital Library	1560 E-Journals	ASTM

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If ‘yes’, what are the instruments / facilities created during the last four years.

At present the Institute is not receiving any grants or finances from industry or other beneficiary agency for the research facility, but the faculty is motivated to do research in collaboration with IITs and NPL and we are in a process of receiving grants from IITs and NPL in near future for developing the research labs in the Institute.

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

The Institute arranges industrial visits regularly for the students of different disciplines in various reputed core industries. The students get the opportunities to interact with industry experts and understand the recent requirements of the industry. Based on this, they develop new technical skills and are motivated to come up with new ideas to solve the current problems of the industries.

3.3.5 Provide details on the library/ information resource center or any other facilities available specifically for the researchers?

For any research work to be completed successfully the information resource availability plays a big role. In the Institute a library is the place where anyone can find the relevant information for his/ her requirement. The institute has a large central library with internet and e-resources facility. To access the library resources easily and efficiently, the institute has OPAC (Online Public Access Catalog): Web-OPAC facility on the entire computer Terminals available at Central Library & Book-Bank.

Some of the facilities available in the library are listed below:-

S. No.	Online Journal Name	No. of Journals	Publisher Name
1	IEEE (ASPP+ POP) { ASPP: All-Society Periodicals Package, POP: Proceedings Order Plans }	2864 (169+2695 E-Journals)	IEEE
2	Science Direct	275 E-Journals	Elsevier
3	Springer Link	149 E-Journals	Springer
4	J-Gate Engineering & Technology (JET)	4532 E-Journals	Informatics
5	McGraw Access Engineering	622 Engineering E-Books	McGraw
6	ASTM Digital Library	1560 E-Journals	ASTM

3.3.6 What are the collaborative researches facilities developed/ created by the research institutes in the college? For ex. Laboratories, library, instruments, computers, new technology etc.

We are exploring the possibilities of collaboration with IIT Delhi and NPL and in near future we will be able to develop research labs / library in the Institute in collaboration with these institutions.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

Patents obtained and filed (process and product): K.P. Chaudhary, Flick Standard Calibration using Laser Interferometer applying Genetic Algorithm" as a copyright which has been registered in the Copyright Office, GOI vide Regn. no. SW-6970/2013

*** Original research contributing to product improvement:**

A Project titled “Ergonomic Keyboard Design” was developed by the student in collaboration with the faculty member. The findings relate to the improvement of the currently available keyboard design to avoid the special figure disease. This project won the second prize in the GGSIP University project competition and this concept was filed for patent by the student.

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If ‘yes’, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

Yes.

The institute publishes a Journal Titled “Satyam –MSIT Journal of Research” (Journal ISSN: 2319-7897 a bi-annual Journal)

The composition of the editorial board is as follows:

Period	Volume and Issue	Editor-in-Chief	Co-Editors
July-Dec-2012	Vol-1, issue-1	Ms. Prabhjot Kaur	NIL
Jan-June-2013	Vol-1, issue2	Ms. Prabhjot Kaur	Ms. Sakshi Rajput, Ms. Geetanjali Sharma, Ms.Meena Siwach
July-Dec-2013	Vol-2, issue-1	Ms. Anu Saini	Ms. Sakshi Rajput, Ms. Geetanjali Sharma, Ms.Meena Siwach
Jan-June-2014	Vol-2, issue-2	Dr. Anu Saini	Ms. Sakshi Rajput, Ms. Geetanjali Sharma, Ms.Meena Siwach
July-Dec-2014	Vol-3, issue-1	Ms. Minakshi Tomer	Ms. Sakshi Rajput, Ms. Geetanjali Sharma, Ms.Meena Siwach
Jan-June-	Vol-3, issue-2	Ms. Minakshi Tomer	Mr. Tushar Gupta,

2015		Dr. Anupama Kaushik	Ms. Indu, Mr. Vinay Gautam, Mr. Anshul Gupta
------	--	------------------------	--

Satyam Journal Policies:

1. Research Articles: Research articles should be original, basic and must be from applied engineering and technological studies. The articles should be well documented, novel, and significant. Text limit is 5000 words for a research article, excluding references, figures and legends.
2. Reviews: Review articles should be timely subject important to applied engineering and technological areas. Reviews must be written as concisely as possible. Text limit is 2000 words for a review article, excluding references, figures and legends.
3. Public Issues: Brief articles on topics of interest to the general public in laymen terms will be considered for publication. The text limit is 400 words.
4. Papers must not have been previously published or currently submitted for publication elsewhere.
5. Papers will be evaluated for originality, significance, clarity, impact, soundness and good English write-up and for proper formatting.

Instructions to authors

1. Use textboxes for Author's name on the first page.
2. Make your paper in two column format as given in the template attached. (IEEEformattemplate.docx).
3. Figures and Tables should be numbered properly as per the format.
4. Write complete references at the end i.e.
Author's name, "Article Name", Journal's Name, Vol....., Issue No....., pp....., Year of publication

Example....P. Musilek , W. Pedrycz , G. Succi , M. Reformat , "Software Cost Estimation with Fuzzy models," Applied Computing Review, Vol. 8, No. 2, pp. 24-29, 2000.

3.4.3 Give details of publications by the faculty and students:

The Institute encourages the faculty members to publish the research papers in reputed journals, conference proceedings and also provides them with the registration fee for the publication. The details of the research publication is given in **Annexure-3.2**

3.4.4

National/ international Recognition of the faculty:

The Institute always motivates the faculty members to excel in the field of research and innovation. The details of the faculty who received awards in research are given below:

1. Prof.B.S Panwar , Conferred with the following awards
 - Adjunct Professor University of Regina Saskatchewan Canada, 2012.
 - Recipient Mobility Exchange Grant of Shastri Indo-Canadian, 2013.
2. Prof. K.P. Chaudhary is Award winner at the CSIR foundation day celebration for patents in 2008, 2010, 2011 and 2012.
3. Prof. Poonam Bansal Conferred with the following awards
 - Outstanding Branch Counsellor award by IEEE Delhi section for the year 2014.
 - Outstanding Branch Counsellor and Branch Chapter Award of Region10 award for the year 2015.
4. Ms. Vimal Gaur, Reader, CSE Department, received IEEE Outstanding Branch Counselor and Advisor Award for Region10 that includes the entire Asia-Pacific Region in 2014.
5. Ms. Sapna Dhankar, Assistant Professor,CSE Departement received Best Paper Award in International Conference on computing sciences held at LPU , Punjab held on 8- 9th April 2016.
6. Ms. Nishtha Jatana, CSE Departement received Best Paper Award in 4th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO) in 2015.
7. Mr. Sitender, IT Department received Outstanding Branch Counsellor award by IEEE Delhi section for the year 2015.
8. Prof. K.P. Chaudhary got the Technology Day award for copyright of software development, “Flick standard calibration using genetic algorithm ”, 20th May 2013

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

The institute has a centralized placement cell which collects the current requirements of the industries and shares that information with the students to prepare the students according to the current industry requirements.

The institute has accreditation of TCS to conduct FDP, Seminars and Placement activities. The institute had also the Infosys Campus Connect program earlier.

The institute also has an active **Alumni Association** which guides the students about the industry environments and requirements on regular basis.

The institute has a strong industry –institute relation and helps the fresher graduates to get internship in the reputed industries.

Institute has an E-Cell (**Annexure-3.3**) which organizes the entrepreneurship activities in the institute and invites experts from various industries.

The college organizes regular industry visits for the students to decrease the gap between the industry demands and the current education system.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

The policy of the Institute for promoting the consultancy is under process. The draft for the same has already been prepared and is under the process of approval.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

We have already initiated the step and the draft for consultancy is already under consideration.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

The Institute encourages the faculty members for the consultancy and has already initiated the step. The draft for consultancy is already under consideration. Details of the consultancy provided by the Institute are given below:

Sr.No.	Faculty	Name of Company	Consultancy Activities	Co ordinator	Years	Rs. In Lakhs
1	Prof. B. S. Panwar	Maxim IC Sunnyvale California	Broadband energy Harvesting using MEMS Structures	B S Panwar	2010-12	10 Lacs
		AKSHI Gurgaon	CMOS Pixel design and Simulation for Imaging Application-Phase III’,	B S Panwar	2011-12	2.99 Lacs
		AkSHI Gurgaon	CMOS Pixel design and Simulation for Imaging Application Phase -II	B S Panwar	2009-11	7.45 Lacs

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

The draft for the policy has been prepared and is under consideration.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

The college organizes the NSS activities every year since 2014. The composition of the NSS committee was as follows:

Sr. No.	Faculty Name	Designation	Batch
1	Dr. Man Singh Beniwal	Program Officer	2014-2018

2	Mr. Narender Malik	Program Officer	2014-2018
3	Dr. Sobinder Singh(Proctor-ECE)	Member	2014-2018
4	Dr. Anju Dhillon(Proctor-IT)	Member	2014-2018
5	Mr. Mohit Kumar (Proctor-CSE)	Member	2014-2018
6	Dr. Gitanjali	Member	2014-2018
7	Ms. Preeti Sherawat	Member	2014-2018
8	Ms. Minakshi Tomar	Member	2014-2018
9	Ms. Mamta Gahlan	Member	2014-2018
10	Dr. Sobinder Singh	Program Officer	2015-2019
11	Mr. Surender Rangi	Program Officer	2015-2019
12	Mr. Mohit Deswal	Member	2015-2019
13	Ms. Asha	Member	2015-2019
14	Mr. Narender Malik	Member	2015-2019
15	Dr. Rashmi Gupta	Member	2015-2019
16	Ms. Reenu Kumari	Member	2015-2019

Under NSS camp the students are supposed to do the following things:

Sr. No.	Event	Date
1	Assignment on NSS aim, objectives, symbol and history	28/04/2015 & 31/05/2016
2	Presentation of the assignment submitted	02/05/2015 & 31/05/2016
3	Tree plantation	11/04/2016
4	Drawing	11/4/2016

The college with the help of various student groups like TED-X, IEEE MSIT student chapters, Google Developers Group (GDG), ENVA (**Annexure-3.1**) etc. organizes blood donation camps, free health checkup programs and many more activities in the campus for the faculty, students, and other staff.

The IEEE MSIT student chapter conducted Star program (**Annexure-3.4**) in which the college students go to the different government schools and share their knowledge of latest developments in the technological field and their importance in day to day life with school students. They also guide them about the different career options available for them.

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles?

The institute deposes teacher advisors to the different student groups like IEEE MSIT, GDG (Google Developers Group), Techno cratz, E-Cell (**Annexure-3.3**), ENVA (**Annexure-3.1**), NSS etc. which monitors the progress of these groups and guide them. Some of the events organized by the students are listed in **Annexure-3.3**.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The institute invites its stake-holders to visit the institute and take suggestion from them.

The institute also organizes the Parents –Teacher’s Meeting to share the progress of the students with their parents from time to time.

The institute also sends the SMS, E-mail to its stake-holders about the progress of the institute.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

The institution organizes various blood donation camps (**Annexure-3.1**), free health checkup camps, general awareness camps to connect the students with the society and provide them a platform to feel their responsibility towards the society and Nation.

The institute also conducts summer camp for the needy students in the campus and provides them with free food and accommodation with in the campus.

Some of the students who received financial help from institute are listed below:

Sr. No.	Student Name	Parent’s Name	Education Level	Year
1	Smiriti Mahlawat	Mr. Subhash Mahlawat	B. Tech. 4 th Year(ECE)	2014
2	Rohit Choudhary	Mr. Anil Kumar	B. Tech. 4 th Year(IT)	2014
3	Anuj	Mr. Mahender Singh	B. Tech. 1 st Year(ECE)	2014
4	Janvi	Lt. Manjeet Rana	B. Tech. 2 nd Year (IT)	2014,2015
5	Harshit Choudhary	Mr. Surender Pal	B. Tech. 1 st Year(CSE)	2015
6	Ankita	Mr. Jai Bhagwan	B. Tech 2 nd Year (CSE)	2014,2015
7	Vishant	Mr. Dinesh Kumar	B. Tech. 1 st Year (CSE)	2015
8	Aakanksha Singh	Lt. Jitender Singh	B. Tech. 2 nd Year (CSE)	2014,2015
9	Nikita Choudhary	Mr. Satish Choudhary	B. Tech. 3 rd Year(CSE)	2015
10	Arti Choudhary	Mr. Rishipal Choudhary	B. Tech. 2 nd Year (ECE)	2014,2015
11	Abhinav Singh	Mr. Vinod Kumar	B. Tech. 1 st Year (IT)	2015

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

The college has its NSS club which motivates the students and faculties to participate in social development of the nation.

The detail of the composition of the NSS committee is as follows:

Sr. No.	Faculty Name	Designation	Batch
1	Dr. Man Singh Beniwal	Program Officer	2014-2018
2	Mr. Narender Malik	Program Officer	2014-2018
3	Dr. Sobinder Singh(Proctor-ECE)	Member	2014-2018
4	Dr. Anju Dhillon(Proctor-IT)	Member	2014-2018
5	Mr. Mohit Kumar (Proctor-CSE)	Member	2014-2018
6	Dr. Gitanjali	Member	2014-2018
7	Ms. Preeti Sherawat	Member	2014-2018
8	Ms. Minakshi Tomar	Member	2014-2018
9	Ms. Mamta Gahlan	Member	2014-2018
10	Dr. Sobinder Singh	Program Officer	2015-2019
11	Mr. Surender Rangi	Program Officer	2015-2019

12	Mr. Mohit Deswal	Member	2015-2019
13	Ms. Asha	Member	2015-2019
14	Mr. Narender Malik	Member	2015-2019
15	Dr. Rashmi Gupta	Member	2015-2019
16	Ms. Reenu Kumari	Member	2015-2019

Under NSS camp the students are supposed to do the following things:

Sr. No.	Event	Date
1	Assignment on NSS aim, objectives, symbol and history	28/04/2015 & 31/05/2016
2	Presentation of the assignment submitted	2/05/2015 & 31/05/2016
3	Tree plantation	11/04/2016
4	Drawing	11/4/2016

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

The institute provides the free summer educational camp to the students who belongs to rural areas every year. Free accommodation and food is provided to all the students. Basic knowledge of computer and Engineering is provided to the students. Faculty members share their knowledge with the students.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

The students and faculty organize different activities such as star program (Annexure-3.4) by IEEE WIE student chapter, NSS camp, summer educational camp, intercollege technical and cultural activities in which they occupy various posts and learn how to work in group, how to communicate, how to share their knowledge. These help them to be a good human being and responsible citizens.

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

The institute helps the students to get scholarships under different schemes from university/ government as well as from the institute itself. Some of the

	2012-13	2013-14	2014-15	2015-16
EWS Scholarsh	1	18	15	21
Merit Scholarsh	11	10	12	-
Post Matric	1	-	5	-
Total	13+12(CSE)= 25	28+14(CSE)= 42	32+17(CSE)= 49	21+13(CSE)= 34

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

NIL

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

Annexure-3.5

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

We have interaction with NPL and IIT Delhi and discuss the research issues with the faculty of IIT and NPL. Our students are encouraged to visit the NPL, DRDO Lab, and DOT.

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

The Institute has collaboration with TCS and Infosys Pvt. Ltd. for the placement purposes. We are in the process of extending such collaboration with IIT and NPL.

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

Institute has the TCS Accreditation for conducting FDP's, Seminars and Conferences in the campus. The institute was also having the Infosys campus connect program earlier as a result of which Infosys come for the recruitment purpose every year.

Institute has an agreement and relationship with Industries such as Infosys, Accenture, and Cognizant for recruitment purpose. The institute also worked in collaboration with ONGC to establish various labs in the campus.

3.7.4 highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

The institute invites scientists and experts from different organizations such as , DRDO, IIT, NSIT, NIT, DTU, GGSIPU for exposition in FDP's, Seminars, Expert Lectures, Technical Talks from time to time. Below is the list of experts' visit in the institute in the last five years:-

Sr. No.	Name of the Eminent Scientists/ Participants	Event	Duration
1	Prof. K.L.Chopra , IIT Delhi	FDP on Emerging Trends in Information Technology	Feb 29 th to March 04, 2016
2	Prof. Sudhanshu Choudhary, IIT Delhi	FDP on Emerging Trends in Information Technology	Feb 29 th to March 04, 2016
3	Prof. Dhurinder, IIT Delhi	FDP on Emerging Trends in Information Technology	Feb 29 th to March 04, 2016
4	Prof. M.N. Hooda, BVP	FDP on Emerging Trends in Information Technology	Feb 29 th to March 04, 2016
5	Prof. S.K. Garg, IIT Delhi	FDP on Emerging Trends in Information Technology	Feb 29 th to March 04, 2016
6	Prof. Keher Singh, IIT Delhi	FDP on Emerging Trends in Information Technology	Feb 29 th to March 04, 2016
7	Prof. V.P.Vishwakarma	FDP on Emerging Trends in Information Technology	Feb 29 th to March 04, 2016
8	Prof. Parimala Prakash, JNU Delhi	FDP on Emerging Trends in Information Technology	Feb 29 th to March 04, 2016
9	Prof. Daya Gupta, DTU Delhi	FDP on Emerging Trends in Information Technology	Feb 29 th to March 04, 2016
10	, Prof. Arvinder Kaur, GGSIPU Delhi	FDP on Emerging Trends in Information Technology	Feb 29 th to March 04, 2016
11	Ms. Upma Srivastava, IAS	FDP on Emerging Trends in Information Technology	Feb 29 th to March 04, 2016
12	Dr. Amita Malik, DCRUSTM	Expert Lecture on Wireless Sensor Networks	28 th Feb 2015

13	Prof. Smiriti Srivastava, NSIT	Intelligent Tools for Various Engineering Applications	April 9 th -10 th , 2012
14	Dr. Madhu Sudan Singh, DTU	Intelligent Tools for Various Engineering Applications	April 9 th -10 th , 2012
15	Prof. Smiriti Srivastava, NSIT	FDP on ‘Research Challenges & Emerging trends in Electrical Engg.’	Feb 25 th , 2015
16	Prof. S. Kumar Mishra, IITD	FDP on ‘Research Challenges & Emerging trends in Electrical Engg.’	Feb 25 th , 2015
17	Prof. Rachna Garg, DTU	FDP on ‘Research Challenges & Emerging trends in Electrical Engg.’	Feb 25 th , 2015
18	Prof. A K Tyagi, GGSIPU	Project Competition	Nov 14 th ,2014
19	Prof. B V R Reddy	Project Competition	May 22 nd , 2014
20	Mr. Ravi Kharbanda, NSDC	National Skill Development council Competition	Jan 16 th -18 th , 2015
21	Mr.Sushil Chandra, DRDO	Guest Lecture on Research and Nurturing Academic	Dec 15 th ,2012
22	Dr. Sunil Kumar Khatri Director, Amity University	Seminar on Software Reliability	March 21 st , 2015
23	Dr. Anurag Singh, NIT Delhi	FDP on “How to Write Research Paper efficiently using LATEX too”	September 26 th , 2015

24	Dr. O. S. Panwar: Chief Scientist in Advanced Materials and Devices Group in the Physics of Energy Harvesting Division of CSIR-National Physical laboratory, New Delhi-110012 (India)	FDP ON SILICON AND CARBON BASED MATERIAL	Feb 27 th , 2016
25	Dr. B. Mitra, IIT Delhi	One day lecture Series	March 3 rd , 2016
26	Prof. Kehar Singh, IIT Delhi,	One day lecture Series	March 3 rd , 2016
27	Dr. Rajender Singh, IIT Delhi,	One day lecture Series	March 3 rd , 2016
28	Dr. Bharti Arora, The Northcap University,	One day lecture Series	March 3 rd , 2016
29	Mr. Abhishek Parmar Scientist-D, DRDO	Digital Design Techniques (FDP)	Feb 28 th , 2015
30	Saurabh Moody, Realbox Data, Analytics	Pitching Hacks (Seminar)	Nov 27 th , 2015
31	Dr. Anup Surendranath, NLU	Preamble of Constitution of India (Seminar)	Nov 26 th , 2015
32	Mr. Ranjai Ghosh(AGM,TIMTS,New Delhi)	Seminar on New Technologies (Li _Fi, Technology, Raspberry Pi	Feb 17 th , 2016
33	Mr. KeshavJha, Senior Android Trainer, CETPA Infotech	Evolution on Android Development	Sept 12 th , 2015

For more information the point 3.1.6 may be referred further.

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated -

- a) Curriculum development/enrichment : NIL
- b) Internship/ On-the-job training: College forwards the summer internship letters of all the students to various industries.
- c) Summer placement NIL
- d) Faculty exchange and professional development: NIL
- e) Research: Various FDP, workshop and seminars are conducted by the institute a list may be referred from point 3.1.6 to motivate the students and faculty members for the research work.
- f) Consultancy: NIL
- g) Extension NIL
- h) Publication: Financial help is provided for the publication and academic leaves are also given to the faculty members to pursue higher studies.
- i) Student Placement: Our Placement cell has MoUs with so many Industries and as a result the placement of the students increases year after year.
- j) Twinning programs: NIL
- k) Introduction of new courses: NIL
- l) Student exchange: NIL
- m) Any other

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/collaborations.

The institute puts its full efforts in planning, establishing and initiating the linkage between the institute and the industry.

Different industry experts are invited to deliver expert lectures in the FDP's and workshop's in the institute.

The Training and Placement cell has its linkages with different industries and as result the placement in the institute is a continuous event throughout the year.

The institute has accreditation of TCS and campuses connect program association with Infosys.

IEEE MSIT is a student branch of IEEE, USA which commenced in 2009 with the aim to help students develop and invigorate their engineering proficiencies. The student branch envisions to "Lead a wave of change" through its technical advets for the betterment of society and thus has been consistently working with the students to help them evaluate their career goals and polish their technical intellect. It tries inculcating technical skills among engineering students by providing plethora of opportunities and a scope for more growth. A team of diligent IEEE volunteers holding various positions of responsibility works with dedication, passion and ardour in order to conduct myriads of IEEE events and workshops pompously.

CRITERION IV INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The institution ensures the availability of the infrastructure, like buildings, class rooms, laboratory requirements, etc. as per the norms laid by Guru Gobind Singh Indraprastha University.

The institute comes under the aegis of SMES (Surajmal Memorial Education Society) which has the following committees

- Executive Committee consisting of 21 members is selected through elections. The committee has the final decision making power on the recommendations made by the rest of the committees.
- Finance Committee is responsible for approval and sanction of the annual budget of the institute.
- Purchase Committee looks after the purchase of hardware, software, lab equipment, ACs, projectors, stationery, chairs, tables, etc.
- Construction Committee is responsible for modification in the structure of the campus.
- Establishment Committee deals with recruitment of the staff.
- Maintenance Committee maintains the infrastructure of the institute like maintenance of building, power supply, water supply, etc.
- Academic Committee looks after the performance and improvement of the faculty.
- Discipline Committee looks after the issues related to student and staff discipline.
- These committees/bodies hold meetings regularly for creation and enhancement of infrastructure of the institute.

The institute also has following bodies:

- Governing Body which holds meetings quarterly where the member secretary and teacher's representatives put up reports related to academics and extra-curricular activities of all the departments of the institute.
- Advisory Body whose members are distinguished faculty members from various reputed institutes. The members are part of the selection committee during recruitment of faculty members.

4.1.2 Detail the facilities available for

a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories,

botanical garden, animal house, specialized facilities and equipment for teaching, learning and research etc.

i) Class rooms: The institute has adequate number of spacious class rooms with seating capacity of 66-70 students. The rooms are well-ventilated with good acoustics. Some of the classrooms have inbuilt LCD projectors, for better understanding of concepts through audio/video mode.

ii) Technology Enabled learning facility: Every department has facility of at least one projector, so that lectures can be delivered through PowerPoint presentations, videos, etc.

iii) Seminar Hall: The institute has multiple seminar halls with capacity of around 120. These seminar halls are regularly used for conducting various seminars, student project presentations, talks, FDPs, ICT-based programs, etc.

iv) Tutorial spaces: There are adequate numbers of classrooms which are also used as tutorial rooms. Each subject (barring a few) has one mandatory tutorial period in a week for a student.

v) Laboratories/Workshops: The institute has well equipped laboratories, each of them has state of the art instruments and facilities. All the laboratories are air-conditioned.

vii) Specialized Facilities and equipment available for teaching, learning and research:

The institute provides high-speed internet to the students so that they can access videos from NPTEL, MIT OpenCourseWare, freevidelectures.com, etc. The library of the institute provides access to many journals and e-journals which can be used by faculty and students for research.

b) Extra-curricular activities: sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.

Sports: There is a spacious playground in the campus where students can play cricket, football, etc. Two badminton courts are also available in the campus. Every year a two day sports event is organized in which boy and girl students participate in various sports like long jump, high jump, 100/200/400m race, Javelin throw, disc throw, etc.

Outdoor Games: A spacious play ground is available for outdoor games like cricket, football, volleyball, etc. along with two badminton courts.

Indoor Games: Facilities for the indoor games like table-tennis, chess, carom, etc. are provided to students in the college campus.

Auditorium: The institute has a modern, well equipped auditorium with good acoustics for various events. The seating capacity of the hall is 540.

NSS: The institute has a NSS unit which conducts various activities like social service, report writing, PowerPoint presentation, etc. which are mandatory for each student as per the syllabus of GGSIP University.

Cultural Activities: Every year the institute organizes annual cultural festival called “Genesis” in collaboration with its sister institutions. The festival finds participation of students from various colleges of Delhi NCR in various events like solo dance, group dance, singing, mono-acting, street play, battle of bands, etc.

Public Speaking, Communication Skills Development: Personality development activities are regularly organized in the institute to improve communication skills of the students. Special sessions and seminars are organized for students, especially 3rd year related to communication skills development.

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

The institution ensures the availability of the infrastructure like buildings, class rooms, laboratory requirements, etc. as per the norms laid by the AICTE, New Delhi and Guru Gobind Singh Indraprastha University, New Delhi. Annual budget is sanctioned by Finance Committee considering the needs of each department and the institute as a whole.

The facilities developed/augmented during the last four years are listed below:

- A new floor has been added to the institute having 5 classrooms, 2 common rooms (one for boys and one for girls), 1 seminar hall with capacity of around 125 students, and a staff room. All the classrooms and staff room of this floor are air-conditioned.
- CCTVs have been deployed all over the campus.
- All the labs have been equipped with ACs.
- New canteen has been constructed and is now functional.
- Two reading rooms have been added in the library and book-bank.

A total amount of more than Rs 25,000,000 has been spent during last four years to develop and augment the facilities of the institute.

The institute has acquired an area of 1590 sq. meter having 5 classrooms, 7 labs, 2 tutorial rooms and 3 staff rooms, which will be used in forthcoming sessions.

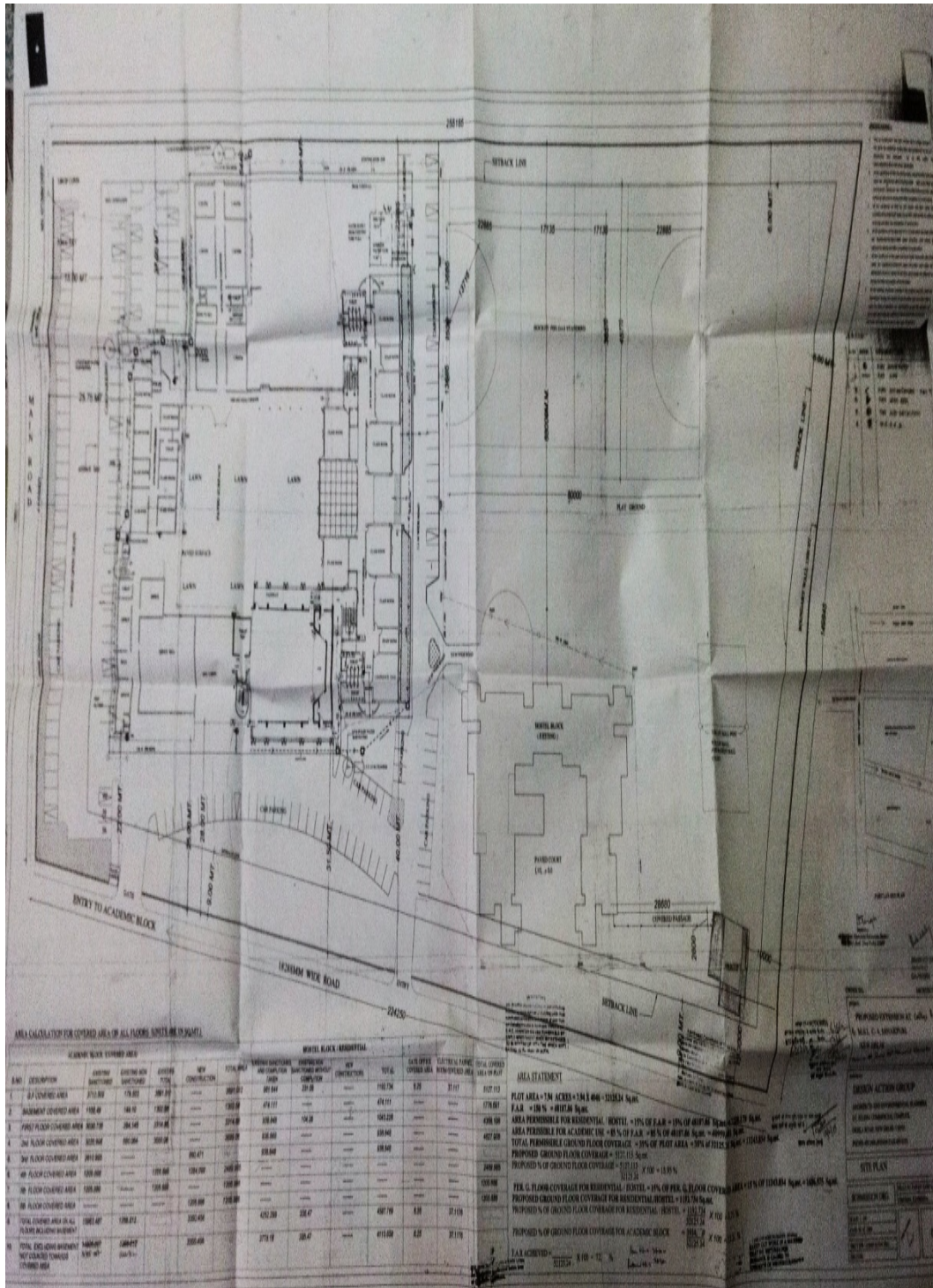


Figure 1 Master Plan of the campus

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

The institute ensures that infrastructure facilities are made available to the students with physical disabilities. The institute has a ramp to help student on wheelchair to reach the lift. Thereafter the student can reach any floor using the facility of the lift. The institute has a wheelchair in reserve, in case of any need. There is also a special toilet on the ground floor which can be utilized by a person with physical disability.

4.1.5 Give details on the residential facility and various provisions available within them:

Hostel Facility – Accommodation available

The college provides well-furnished hostel accommodation to its students. There is a boy's hostel as well as a girl's hostel in the campus. The girl's hostel accommodates 106 students and the boy's hostel can accommodate 134 students.

Recreational facilities, gymnasium, yoga center, etc.

Both girls and boys hostels have indoor and outdoor sports facilities. The hostels have facilities for outdoor sports like volleyball, cricket, basketball and badminton and indoor games like carom, chess, T.T. etc. Hostels also have a mess which provides breakfast, lunch and dinner to the students at nominal rates.

Computer facility including access to internet in the hostel

Computer with internet facility is available in the hostel. The hostel is situated adjacent to the main building of the institute, and students can access computer with internet facility in the labs.

Facilities for medical emergencies

First aid boxes are available at various locations and in each hostel in case of any incident. There is a super-specialty hospital within 100 meters from the institute. There is a government dispensary just in front of the hostel. There are many private nursing homes and doctors within 100-200m range.

Library facility in the hostels

The hostel students avail the central library during college timings. The library has a reading room where students can access newspapers, magazines, etc.

Internet and Wi-Fi facility

The hostel is situated adjacent to the main building of the institute, and students can access internet and WiFi facility.

Recreational facility - common room with audio-visual equipment

The hostellers have a TV room where they can watch their favorite shows and movies.

Available residential facility for the staff and occupancy

Residential facility is available for staff members. There are 7 staff quarters available, all of which are occupied currently.

Constant supply of safe drinking water

The facility of RO water coolers is available in all the buildings of the institute as well as in all the hostels. Provisions have been made for rain water harvesting and waste water treatment / recycling as well.

Security

In order to provide security to students, faculty and staff, a reputed security agency is employed. Security guards (24X7) are available in college campus as well as in hostel. CCTV cameras are also installed at major location for security reasons. For safety against fire accidents, fire extinguishers are available at each floor. For safety, proper lightening conductors are available and earthing of building has been done.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

The institute has a medical room in the campus. There is a government dispensary just in front of the institute. There is a super-specialty hospital at a distance of 100 meters approximately. There are many private nursing homes and doctors within 100-200m range.

4.1.7 Give details of the Common Facilities available on the campus – spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

- Student Grievance Committee

S. No.	Name of the faculty	Designation
1	Prof. A. K. Singh	Convener
2	Dr. Puneet Azad	Co-Convener
3	Dr. Sumita Dabas	Member

4	Mr. Manoj Malik	Member
5	Mr. Naveen Dahiya	Member
6	Ms. Shaily Malik	Member

- Sexual Harassment Cell

S. No.	Name of the faculty	Designation
1	Prof. Poonam Bansal	Presiding Officer
2	Dr. Meena Tushir	Member
3	Dr. Man Singh	Member
4	Mr. Sunil Gupta	Member
5	Dr. Rekha Tripathi	Member
6	Ms. Pinki Rani	External Member from NGO

- The institute has an IQAC cell whose prime tasks are: to develop a system for conscious, consistent and catalytic improvement in the overall performance of institution, and to channelize all efforts and measures of the institution towards promoting its holistic academic excellence.
- There is a conference room in the building for meetings of special units.
- There are multiple seminar rooms for activities related to FDPs, counseling, etc.
- There is a dedicated space for placement department in the institute.
- There is a provision of medical room in the building.
- Separate common rooms for boys and girls are available.
- A spacious canteen is available with exhaustive menu for students and faculty.
- There is a big ground and badminton courts which can be used by students and faculty members for recreational purpose.
- Safe drinking water is provided through water coolers with RO at each floor.

- There is a spacious auditorium with a seating capacity of 540 people. Various events are organized in the auditorium like orientation programs, cultural fest, placement talks, etc.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes, there is an Advisory Committee which plays important role in the development of library.

Role of Library Advisory Committee

The role of Library Advisory Committee (LAC) is to make recommendations to Library concerning library needs. These issues may include policy matters, collections, services, and facilities.

Responsibilities of Library Advisory Committee:

1. To facilitate coordination between Students & Faculty and the library. That is to obtain the advice and views of Students & Faculty on library needs in their area, and report these views to library.
2. To participate in regular meetings with Librarian concerning library related problems & suggestions.
3. To help in getting recommendations for New Books.
4. To help in getting recommendations for New Journals & Magazines.
5. To advice concerning specific findings, issues and problems related to the library and make recommendations to library related matters.

S. No.	Institute	Department	Library Convener & Members
1	MSIT	ECE (M)	Ms. Archana Balyan (Convener)

List of Library Advisory Committee Members:

S.No.	Department	Library Advisory Committee Members
1	EEE (M)	Mr. Yogendra Arya
2	CSE & IT (M)	Dr. Naresh Kumar(CSE) Dr. Suman Mann (IT)
	CSE & IT (E)	Ms. Poonam Dhankar (CSE)
3	ECE (M)	Ms. Neelam Ohlan Ms. Neeru Rathi
4	Applied Science (M)	Dr. Brijpal Singh

4.2.2 Provide details of the following:

- **Total area of the library:**
542.79 sq. meters (library), 350 sq. meters (book bank)
- **Total seating capacity:**
150 students (100 in Central library & 50 in Book-Bank)
- **Working hours (on working days, on holidays, before examination days, during examination days, during vacation)**
9:00 AM to 6:30 PM (Mon-Sat) on working days including examinations days
9:00 AM to 5:00 PM (Mon-Sat) during summer vacations
- **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**
 1. Internet Browsing Room in Book-Bank with 8 computer terminals with internet connectivity on all computers.
 2. Internet browsing area with nine computer terminals at central library.
 3. Web-OPAC facility on the entire computer Terminals available at Central Library & Book-Bank.
 4. Open access for users in the stack area.
 5. Reference books stack are kept in the reading room.
 6. Circulation counter for getting the books and other material issue/return by the faculty and students.
 7. Reading room at central library & book-bank.
 8. Journal, magazine and newspaper display at reading area.

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

For purchase of new titles, print and e-journals recommendations are sought from all the faculty members regularly. A requisition form is also made available on the library website in case there is an urgent need of a title by a faculty member. The book bank provides the textbooks for all the subjects in the current semester to all the students free of cost.

Library holdings	Year-1 2012-2013		Year-2 2013-2014		Year-3 2014-2015		Year-4 2015-2016	
	Number	Total Cost (INR)	Number	Total Cost (INR)	Number	Total Cost (INR)	Number	Total Cost (INR)
Text books	4959	1690014	4315	1482730	2636	1137982	4126	1466186
Reference Books	743		936		118		103	
Journals / Periodicals	88	240241	88	298172	84	245220	84	274322
e-resources	4834	1450061	8933	1558654	9605	1627595	10002	1839428

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- **OPAC:** Web-OPAC (Online Public Access Catalog) facility on all the computer terminals available at Central Library & Book-Bank.
- **Electronic Resource Management package for e-journals**

S.No.	Online Journal Name	No. of Journals	Publisher Name
1	IEEE (ASPP+ POP) {ASPP: All-Society Periodicals Package, POP: Proceedings Order Plans}	2864 (169 + 2695 E-Journals)	IEEE
2	Science Direct	275 E-Journals	Elsevier
3	Springer Link	149 E-Journals	Springer
4	J-Gate Engineering & Technology (JET)	4532 E-Journals	Informatics
5	McGraw Access Engineering	622 Engineering E-Books	McGraw

- **Federated searching tools to search articles in multiple databases**

Not Available

- **Library Website**

Yes, it is available. It gets updated on regular basis. It gives brief information about the library, its collection like Journals, magazines, newspapers, online databases and other useful free e-resources URLs. Library users can also access online databases and NPTEL videos through library website. Virtual library link guides the users.

Library

URL:

<https://sites.google.com/site/centrallibrarymaharajasurajmal/home/>

- **In-house/remote access to e-publications:** Remote access to e-publication/online journals via username & passwords (Online databases are accessed via IP addresses).

- **Library automation**

Yes, we are having fully automated library. All the processes like Management (Record of users and books), Cataloguing, Circulation, Periodicals, Barcoding, Web-OPAC Search etc. are fully done with the help of library management software “Alice for Windows” provided by Softlink Asia Pvt. Ltd (Since 2006).

- **Total number of computers for public access**

17 computers (8 in book-bank and 9 in central library) with 13 headphones for watching audio and video lectures such as NPTEL.

- **Total numbers of printers for public access**

Two (one at central library and one at book-bank)

- **Internet bandwidth/ speed:** up to 18 Mbps.

- **Institutional Repository**

Not Available

- **Content management system for e-learning**

Not Available

- **Participation in Resource sharing networks/consortia**

DELNET (Developing Library Network)

4.2.5 Provide details on the following items:

- **Average number of walk-ins**

250-300 (per day)

- **Average number of books issued/returned**

100 - Issue, 100 – Return (per day)

- **Ratio of library books to students enrolled**

26:1 (56749/2200)

- **Average number of books added during last three years**

4027 (12080 Books added during last three years)

- **Average number of login to opac (OPAC)**
30 (per day)
- **Average number of login to e-resource**
50 (per day)
- **Average number of e-resources downloaded/printed**
30 (per day)
- **Number of information literacy trainings organized**
0
- **Details of “weeding out” of books and other materials**
 1. In Aug 2012, 1309 books weeded out and donated to Chhotu Ram Rural Institute of Technology, Kanjhawala.
 2. In March 2015, 1312 books weeded out and donated to Chhotu Ram Rural Institute of Technology, Kanjhawala.

4.2.6 Give details of the specialized services provided by the library

- **Manuscripts** : Not Available
- **Reference** : On demand to faculty and students
- **Reprography**: On demand
- **ILL (Inter Library Loan Service)** : DELNET
- **Information deployment and notification**
 1. Library website
 2. Library Notice boards
 3. E-mails
 4. Newspaper clipping service
- **Download** : Available through internet and intranet facility.
- **Printing** : Two printers are available (one at CL and BB)
- **Reading list/ Bibliography compilation** : On demand
- **In-house/remote access to e-resources**
Remote access to e-publication/online journals via username & passwords (Online databases are accessed via IP addresses).
- **User Orientation and awareness**
Library organizes user orientation and awareness programme, library virtual tour is available at library website
- **Assistance in searching Databases**
Library staff helps the faculty and students in searching online databases.
- **INFLIBNET/IUC facilities**: Not available

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

Library staff members are always keen to help library users in searching & locating books and other relevant documents in the

library. They also help users in searching online databases (searching research papers and articles from these databases), web-OPAC etc. They also give references of other websites from which they can retrieve the relevant information. Library staff helps the new students & faculty understand the library layout and other important issues raised by the users.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

There is a lift available on the ground floor of the building which can be reached through a ramp. The lift can then be used to reach the library. Library staff personally assists the physically challenged person not only for procuring the books and other documents but also in getting the same issued or returned.

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)

Yes, feedback is taken from the students through online feedback system via library website. Library Advisory Committee and Librarian frequently interact with faculty members and students to get firsthand information on the needs of the users to augment the library services. Issues are also discussed in the library meeting for further improvement.

4.3 IT Infrastructure

4.3.1. Give details on the computing facility available (h/w & s/w) at the institution.

- Number of computers with configuration: - 490

Configuration	Count
Intel Core i5 @ 3.00 GHz processor, 4 GB RAM , 500 GB Hard-disk	252
Core 2 Duo @ 2.2 GHz processor, 2 GB RAM, 100 GB Hard-disk	238
Total	490

- Computer-student ratio: - 1:4
- Stand-alone facility: - 490
- LAN facility available for faculty, staff and students

- WiFi facility is available in the campus
- Number of nodes/computers with Internet facility: - 490
- Licensed software:-

S.No	Software	No. of users
1	MAYA 14.0	15
2	VStudio.NET Pro 2003	10
3	SQL Server 2000	11(10+1)
4	Windows Server 2003	11(10+1)
5	Oracle 9i Standard Edition	10
6	ERPLN6.1	5
7	Office Pro 2003	9
8	Rational Software Architecture	30
9	MATLAB 2015b	10
10	Tanner Tools	10
11	*Office 2007 Suite and Applications	Unlimited users
12	*Office 2010 Suite and Applications	Unlimited users
13	*Office 2013 Suite and Applications	Unlimited users
14	*Forefront End Point Protection 2010	Unlimited users
15	*Windows Vista –KMS and MAK	Unlimited users
16	*Windows 8.1	Unlimited users
17	*Windows 7	Unlimited users
18	Turbo Assembler 5.0	9

19	AUTOCAD 2004	10
20	Orell Digital Language Software	33
21	Tally 9.0	Single user
22	Timetronix (Bioinformatics System)	01
23	ORCAD	10
24	Adobe Design and web premium CS6 6.0	01
25	Corel Draw	01
26	MATLAB 2008A	10
27	DigSilent Power Factory	25

*With Microsoft Campus Agreement

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

Computers with internet facility are available in all the staff rooms which can be used by faculty members to prepare their lectures and perform other routine tasks. Internet facility with 50 Mbps speed is made available to students and faculty. Internet facility is available in all the labs of the institute. These facilities are utilized by faculty and/or students via internet - preparation of teaching / learning material, providing lecture notes and online assignments on college portal, e-resources for research work.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

The institution has definite plans and strategies for optimal use and up-grading the IT infrastructure. To substantiate the above statement, here are some examples:

- Software licenses are renewed timely for uninterrupted teaching-learning process.
- The internet service has been upgraded from 4 Mbps to 50 Mbps in last 5 years.
- 252 computers have been purchased in past 5 years.

- When the demand increases, more number of high end computers will be added to the stock of computers in the institute.
- Audio-Visual classrooms have been added for ICT-based learning.
- CCTV cameras have been installed at strategic points in the college.

4.3.4 Provide details on the provision made in the annual budget for procurement, up-gradation, deployment and maintenance of the computers and their accessories in the institution (Year-wise for last four years).

	2015-16 (INR)	2014-15 (INR)	2013-14 (INR)	2012-2013 (INR)
Procurement/ Deployment	3,500,000.00	5,500,000.00	7,800,000.00	8,750,000.00
Maintenance/ Upgradation	1,500,000.00	1,900,000.00	800,000.00	

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

The Institution facilitates the extensive use of Information and Communication Technology (ICT) resources for the teaching learning process by the following ways:

- The institution has installed 50 Mbps internet connection for quick and easy access of information.
- Each department is provided with ample number of computers and internet facility to enhance the use of ICT resources.
- Posting of course materials and laboratory manuals is facilitated using IC Technology.
- A well-equipped language laboratory is available to train students with language and communication skills using ICT resources.
- NPTEL learning materials and videos are used for self- learning and class room teaching.
- Rooms with projectors are available for ICT-based lectures.
- ICT resources like video conferencing using Google Hangouts, videos, presentations, etc. are used for FDPs which are organized regularly.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching-learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the center of teaching learning process and render the role of a facilitator for the teacher.

The teaching learning process is always student centric and the following teaching aids make it more effective:

- Many class rooms are fitted with projectors to enable the teacher plan the class room activity.
- Lecture notes, assignments and pre-class instructions are uploaded on “Moodle” so as to train them in prior preparation and in self-study.
- On- line submission of assignments is encouraged as this motivates the students to creatively prepare the material with videos and images.
- The language lab and the communication skill laboratory serve the students for improving their communication abilities.
- NPTEL course videos are effectively put to use by students for learning enhancement.
- Students are encouraged to do research-based projects and to access various journals and research papers online.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

Yes. DELNET – Developing Library Network, New Delhi. Developing Library Network (DELNET) is a major Resource Sharing Library Network in "South Asia". It networks more than 900 libraries in India and Six other Countries and offers access to about fifty lakh records of Books, Journals, Articles, and Other Documents. DELNET also provides "Inter Library Loan" for 'Books', and Document Delivery Services for Journal articles to the Members-Libraries within and outside India.

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

The Finance Committee sanctions and approves the annual budget for the institute before the commencement of the session each year, for maintenance and upkeep of the facilities. Budget allocated for facilities such as Building & Furniture, Equipment, Computers, Vehicles and others are shown below for the last four years.

		2015-16 (INR)	2014-15 (INR)	2013-14 (INR)	2012-13 (INR)
a.	Building	1,000,000	1,500,000	11,150,000	1,100,000

b.	Furniture	50,000	50,000	100,000	100,000
c.	Equipment	500,000	650,000	700,000	700,000
d.	Computers	500,000	900,000		
e.	Vehicles	850,000	850,000	710,000	550,000
f.	Any other	9,145,000	7,260,000	5,960,000	5,350,000
	Total	12,045,000	11,210,000	18,620,000	7,800,000

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

The institute has a Maintenance Engineer and a Caretaker who look after the maintenance and upkeep of the infrastructure, facilities and equipment of the college. The institute has also given AMCs for maintenance of ACs, water coolers, generators, PCs, etc.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

Equipment that needs one time calibration is calibrated at the time of installation. Instruments that need periodical calibration are calibrated either by our own qualified lab technicians or by the vendor's representative once a year. Certain other instruments are calibrated as and when required and / or at the start of each lab session.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

To handle voltage fluctuations, there is a 300KVAR capacitor panel installed in the campus, and stabilizers are installed for ACs. Earthing of the complete building has been done. There is a water storage tank in the campus for constant supply of water. The college has full time technical staff like electrician, a plumber and other technicians who regularly check and monitor the sensitive instruments.

CRITERION V: STUDENT SUPPORT AND PROGRESSION

Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually? If yes, what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

- The institution publishes the students' information bulletin annually. The students can find all the necessary information in it.
- The information bulletin contains detailed information about the institutional resources and details about courses and faculty members.
- Information with regard to various programs is furnished in the information bulletin. It includes rules for minimum attendance requirements, study and evaluation schemes along with detailed description of courses.
- Also career advancement and placement information is provided in the information bulletin.
- Apart from this various milestones achieved by the institute are also specified in the information bulletin.
- Apart from the information bulletin, the institute has a website and portal, where academic calendars, syllabus of all the years/semesters, monthly attendance report, student notices and a lot of other information is available for the students.

5.1.2 Specify the type, number and amount of institutional scholarships / free ships given to the students during the last four years and whether the financial aid was available and disbursed on time?

The college provides scholarship/financial aid to the students. The student needs to put an application for the scholarship and then he can apply for the same through the process specified by the institute.

Management/Institutional Scholarships					
Category of Scholarship		2012-2013	2013-2014	2014-2015	2015-2016
Management/ Institutional Scholarships	No. of Student	4	7	8	NIL
	Total Amount in	2,00,000	3,50,000	4,00,000	NIL

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

The institute has facilitated the students to receive state government scholarships

PMS					
Category of Scholarship		2012-2013	2013-2014	2014-2015	2015-2016
PMS	No. of Students applied	8	19	13	17
	No. of Students got scholarship	NIL	NIL	NIL	NIL

STATE FUNDED					
Category of Scholarship		2012-2013	2013-2014	2014-2015	2015-2016
State funded scholarship	No. of Students	NIL	9	3	1
	Total Amount in Lakhs	NIL	6,88,120	188062	95,662

AICTE FUNDED					
Category of Scholarship		2012-2013	2013-2014	2014-2015	2015-2016
AICTE	No. of Students	NIL	4	2	NIL
	Total Amount in Lakhs	NIL	3,49,024	2,78,764	NIL

GOVERNMENT SCHOLARSHIPS					
MERIT CUM MEANS					
Category of Scholarship		2012-	2013-2014	2014-2015	
Merit cum means	No. of Students applied	23	49	28	29
	No. of Students got scholarship	23	22	22	NIL
	Total Amount in Lakhs	2,48,400	2,37,600	2,37,600	NIL

5.1.4 What are the specific support services/facilities available for

- Students from SC/ST, OBC and economically weaker sections
- Students with physical disabilities
- Overseas students
- Students to participate in various competitions/National and International
- Medical assistance to students: health center, health insurance etc.
- Organizing coaching classes for competitive exams
- Skill development (spoken English, computer literacy, etc.)
- Support for—slow learners
- Exposures of students to other institution of higher learning/ corporate/business house etc.
- Publication of student magazines

Students from SC/ST, OBC and economically weaker sections

- Students belonging to the underprivileged sections of society, viz., SC/ST/OBC/minorities and the differently-abled students receive scholarships/financial assistance from the Government.
- The institute helps these students by facilitating the procurement of the government scholarships/financial assistance by the students by providing institutional attestation to their application forms for scholarship/financial assistance. The institute then forwards these forms to the concerned department. The students receive the amount directly from the government.

Students with physical disabilities

- The institute has ramps for easy access to administrative, teaching, library and laboratory blocks and has special computer facilities on ground floor for them.
- Special toilets have been constructed to meet the needs of the students with physical disability. Lift facility is also available.
- Besides, wheelchair facility is also available; anyone in need may be provided with it and assisted with an available class IV staff.

Students to participate in various competitions/National and International

- The institute encourages the students to participate in various sports events and helps them to obtain sponsorship from government.
- Also the students are encouraged for participation in various National and International conferences/workshops.

Medical assistance to students: health Centre, health insurance etc.

- The institute has First aid facility available in the Administration Office of MSIT.
- Janakpuri Superspeciality Hospital and a Government dispensary is located within 100 meters from the institute for any emergency medical service

Organizing coaching classes for competitive exams

- The students are motivated and helped by the faculty members to appear for various competitive exams like TOEFL, GRE, CAT etc. Faculty members also help them to identify the programs and institutions where they can apply for higher education.
- One day seminar is also organized by various departments to create awareness amongst students about various coaching institutes.
- Also various forms of study materials like books, online materials and solved question bank etc. are provided by the institute.
- Question bank for GRE, TOFEL, GATE, GRE and CAT are also maintained in the library.

Skill development (spoken English, computer literacy, etc.)

- The institute has taken important steps to improve the skill set of students. The institute also provides training on soft skills which include attitude building, effective writing, team work, assertive communication, self-esteem and self-confidence, group discussion and personal interview
- The university has introduced a compulsory Communication skill subject for the third year students.
- The institute has a well-equipped language lab with 30 user license of Orell Digital Language Lab (ODLL) software to assist students in soft skills training and personality development.
- Study materials, both print and online, and solved question bank are provided to the students for preparation for skill development.
- Mock interviews and mock GDs are also conducted for practice of communication and soft skills.

Support for “slow learners”

- Slow learners are identified by various assessment processes such as Sessional Test, Lab Viva sessions, interaction during the lecture delivery, etc.
- These students are called in person to discuss their problems with the faculty members during extra hours
- Special classes are conducted for these students.
- Special attention is given to these students by solving important problems in the form of additional worksheets and assignments.
- Extra attention during Tutorials

Exposures of students to other institution of higher learning/corporate/business house etc.

- The students are exposed to the current trends in the industry by arranging guest lectures from the reputed institutions and industries.
- The students are also encouraged to take up training in the industry to get the hands-on-experience about the current technology in the industries.
- The institute arranges for industrial visits to the students to get first-hand information about the industries and their technologies. There they can interact with the people from industries and can understand the functioning of each department along with the technology that they are using.

Publication of student magazines

- The institute annually publishes the magazine **VISION** which highlights various departmental activities related to the students. It also highlights the students' achievements and furnishes articles written by them. The editorial board of the magazine consists of students from

graduate courses.

- Another magazine **ICON** is also published by students under the guidance of faculty in IEEE.
- **SATYAM JOURNAL** is another publication by the institute. The journal contains research papers and articles by the students and faculty members of the institute and showcases technical knowledge and research skills. It encourages the students to do research and approves their hard work by publishing it. It provides a platform for students to showcase their research on a bigger and wider network.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

- Entrepreneurship Cell at MSIT helps to bring out the latent entrepreneurial spirit of young students.
- The Cell provides a platform to students who want to set up their own business and gives opportunities to budding entrepreneurs to connect with successful businesspeople and see their ideas turn into reality.
- The E-Cell hosts various workshops, speaker sessions, innovative games, competitions for the aspiring entrepreneurs and supports them by providing necessary resources, mentoring, consultancy, and networking.
- It is our firm belief that original thoughts and radical ideas take shape in young minds. Students are the greatest natural resource and the Cell intends to nurture them, by providing them with opportunities to excel.
- The E-Cell also takes care of the running of the E-Cell mart through which stationary items are made available to students of the institutions in the campus.

Objectives of the Cell

- (a) To disseminate knowledge and insights in entrepreneurial theory and practice through lectures activities and workshops.
- (b) To collaborate with similar bodies in other B-schools & Technology Institutes to accomplish the objectives.
- (c) To seek tie-ups with Non-profit Entrepreneurial organisations connecting E Cell to global network of entrepreneurs.
- (d) To create a strong network of successful entrepreneurs who would like to guide budding entrepreneurs.
- (e) Starting Innovation incubation centre.
- (f) Starting Campus Companies.
- (g) Ecosystem for early stage entrepreneurs “STARTUPS”

Activities of E-Cell

- Administration of the E-cell mart in the Campus
- Organizing Workshops and Seminars
- Innovative games and competitions
- Business Ideas Competitions
- Extension Programs like Start-up talks and Spoken English training for students.

Success Stories:

1. Mr. Pranjal Sexena won the title of “World skill in India” and got 15th ranking in world level competition held in Brazil.
2. Mr. Perminder Singh has started his own setup of project development in Embedded System. He won at least 12 title in difference university level Competition.
3. Mr. Prateek Garg has started his own unit of electricity cabling in Noida. He provided guidance to his juniors.
4. Mr. Amit Choudhary has started his own setup for project development in transport system.

Activities done during last two academic years

S.No	Date	Event	Speaker	Reference
1	16 Oct 2015	Bit ‘n’ Bytes	Mr.GauravWadhwa	GAmmoz.com
2	21 Aug. 2015	Startup talk	Ms.GarimaJuneja Mr.Garav Kumar	ViralCurry.com
3	5 Dec. 2014	Jobs Vs Entrepreneurship	Ms.BhawanaKhattar	Rural Wheels Start-up
4	26 Nov. 2014	Start your Eureka Journey	Ms.BhawanaKhattar	Rural Wheels Start-up
5	24 Nov 2014	The basic of Entrepreneurship	Mr. Abinav	MSIT E-Cell

Entrepreneurship Awareness Camp is held in the institute from time to time, the details of Entrepreneurship Awareness Camps are specified below:

S.No	Topic	Date	Venue	Speaker	Profile
1	Session 03- Pitching	11/7/20 15	Room No. 206	Mr. Saurabh	Co-Founder, REALBOX Data

	Hacks			Moody	Analytics
2	Session 02-Bits'n'Bytes You Must Know About Startups	10/16/2015	MSI Auditorium	Mr. Gaurav Wadhwa	Co-Founder, GAMOOZ
3	Session 01-Orientation	8/21/2015	Room No. 06	Ms. Garima Junja & Mr. Gaurav	Founder, VIRALCURRENCY.COM
4	NSDC competition held in MSIT from 16th to 18th Jan	16-18/01/2015	204	NSDC and MSIT	NSDC
5	Event 7-Startup Visit	12/20/2014	Outdoor		
6	Event 6-Job vs Entrepreneurship	12/5/2014	Room No. 406	Ms. Bhawna Khattar	Works at RURALWHEELS startup
7	Event 4-Make a FB page & YouTube channel, Online Media Marketing	11/25/2014	ONLINE	Not required	
8	Event 2-I would Like to.....(Online Event)	11/20/2014	ONLINE	Not required	

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

***Additional academic support, flexibility in examinations**

*** Special dietary requirements, sports uniform and materials**

***Any other**

- The Institute provides a range of facilities in sports, cultural and other extracurricular activities to students because exposure to these activities is very important for the all-round development of the students.
- The Institute organizes various cultural and extracurricular events regularly in the campus. The college organizes annual Technical Festival-**AVENSIS** and Cultural Festival -**GENESIS**. The committee for the Festival comprises of a Head faculty coordinator (Convener) and a team of students who work under the guidance of the faculty.
- The various activities include Singing, dancing, debates, quizzes, blind art, poster presentation, nail art, presentations, coding, street painting, paper dressing, counter strike, art exhibition, scrap modeling, web designing, Tattoo Mania, NFS, Treasure Hunt, etc.
- The college has a full time Assistant Professor of Physical Education, who is responsible for promoting sports, organizing sports events and facilitating the participation of the students in competitions. Specific policies and strategies are adopted with regard to sports. An annual sports meet is also organized in the college.
- **ANNUAL SPORTS MEET:** Students compete in different events and win prizes. There are various events like March past, Race, Volleyball, Badminton etc. The college also provides students with Badminton court, Volleyball court, Cricket ground etc.

Additional academic support, flexibility in examinations

- Students are encouraged to take part in various extracurricular and co-curricular activities such as Sports, Games, Quiz competitions, Debate and Discussions, Cultural activities etc.
- Sports facilities are provided in the campus so that students are encouraged to take part in sports. The institute has a basketball court, a badminton court and a cricket/football ground available in the campus. All sort of sports material are provided to the students by the institute.
- Students are also encouraged to participate in various co-curricular and cultural activities. The institute organizes various events on regular basis so that students get required opportunities and exposure.
- A 5percent relaxation in attendance is also given to students who are involved in various co-curricular and extra-curricular activities
- If a student happens to miss his exam (sessional) due to participation in an event or due to a job interview or a competitive exam, or is representing the college/university elsewhere, then a re-test might be held for the same.

Special dietary requirements, sports uniform and materials

- Refreshments are arranged by the Institute for the participating students during SPORTS MEET.
- Sports jerseys are also provided from the Institute for the participating students.
- Sport materials and accessories are provided throughout the year like football, net, basket balls, cricket bats, cricket balls etc.

Any other

- Inter college cricket tournament and football league are organized in the Institute every year, where students as well as faculty members from the Institute as well as from other Institutes participate.
- The Annual Technical Festival-**AVENSIS** and Cultural festival-**GENESIS** organized by MSIT are a symbol of glorious culture of this college. The students from this institution participate in both the fests, showing their talents in various fields.
- Many quiz, debate competitions and coding competitions are organized in the Institute, where the students actively participate.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT /Central /State services, Defense, Civil Services, etc.

The students preparing for the competitive exams are provided with online materials, multimedia based learning, and solved question bank with keys etc. There is a special provision of communication skills and personality development classes for the third year (6th Semester) students. Question bank for GRE, TOFEL, GATE and CAT are also maintained in the library. The students who opt for higher studies in the place of campus placement are undergoing coaching for different competitive exams such as CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc. The numbers of those students qualified in one or the other of the above competitive exams are given as follows:

No. of student's qualified Competitive examinations:

Branch	2012-13	2013-14	2014-15	2015-16
ECE	16	15	14	6
CSE	NIL	6	16	NIL

EEE	8	5	4	6
IT	4	6	5	6

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

Academic

- All round counseling is considered very important in the institute and for this purpose each department in the institute appoints proctors to all the classes. The proctor monitors the academic progress of the students and guides them if any deficiency is found. The proctor counsels the students with regard to their subject related queries suggests appropriate solution.
- The Proctor keeps track of the attendance of the students and also keeps a record of the backlogs and performance of the students.
- The Proctor makes a summary of top ten and bottom ten students and holds Parent-Teacher meeting based on overall and subject wise performance of the students.
- Apart from this, there are Mentors for each group in a class (three groups per class).The Mentors guide the students for projects and for any other help needed in academics.

Personal

- The faculty members also counsel the students related to their personal problems. Their personal problems are heard and they are assured and motivated to do better in studies.
- Parent-Teacher meetings are also held so as to interact with the parents and get to understand the problems related to the students.

Career

- Training and Placement Cell in the institute has a big role so far as career counseling is concerned. Placement team guides the students on regular basis. Training is provided for soft skill development, aptitude, etc. so that students perform well during their placements.
- Mock interviews are also held to help students realize their weak points and prepare for the placements.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If yes, detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list

the employers and the programs).

There is an active placement department in the campus which is putting in all efforts for organizing several placement activities throughout the academic year for MSIT / MSIP / MSI. The department is headed by **Prof. Ashok Oberoi, Director Placements, and SMES.**

- The placement department has given wonderful opportunities to our students in various companies of repute with handsome packages. There is concerted focus to ensure that students work towards academic excellence to get the best results, keeping in mind the industry bottom line of 60% & above in their respective professional streams. For this purpose, faculty is directed to keep constant vigil on the performance of students & make efforts to ensure the same. Best of faculty is deployed & best faculty award is given to encourage the faculty towards this endeavor.
- To give them a feel of industrial environment, students undergo industrial training as part of their curriculum. They also undertake minor industry related project in pre-final semester and a major project in the final semester.
- Special sessions to hone up technical skills & much needed communication skills are conducted on a regular basis.
- The following companies have visited the campus and/or have called for an onsite placement/internship session and have provided offer letters / internship letters for our college students:

MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY						
PLACEMENT-2013						
				BRANCH		
Sr.No	Company	CSE	IT	ECE	EEE	Total
1	INFOSYS	33	20	11	1	65
2	HCL TECHNOLOGIES	43	26	5	5	79
3	IMPETUS	1	1	0	0	2
4	FCS	1	0	1	0	2
5	NEWGEN	3	3	0	0	6
6	DELL	10	4	0	0	14
7	CSC	14	4	14	2	34
8	LIBSYS	11	1	0	0	12
9	PARI	0	0	2	0	2
10	W&H	0	0	0	1	1
11	COMPRO	5	1	0	0	6

12	LUMINOUS	0	0	6	3	9
13	MU-SIGMA	4	1	0	1	6
14	CLICK LABS	1	0	2	0	3
15	SAMSUNG	0	0	10	0	10
16	AIG	0	0	0	1	1
17	JOSH LABS	1	0	0	0	1
18	SOPRA	6	1	0	0	7
19	FIEM INDUSTRIES	0	0	1	0	1
20	BESPOKE DIGITAL	3	1	0	0	4
21	MOBIKWIK	0	2	1	0	3
22	TOSHIBA-LANDISGYR	2	1	0	0	3
23	AMADEUS	1	2	0	0	3
24	ZECROSS MEDIA	1	0	0	0	1
25	NUCLEUS	3	0	1	0	4
26	MARKIT	0	0	2	0	2
27	INFOPRO	8	8	0	0	16
28	CVENT	0	1	1	0	2
29	M-PHISIS	1	0	0	0	1
30	AMDOCS	1	0	2	0	3
31	INFOGAIN	1	2	0	0	3
32	ADOBE	4	2	2	0	8
33	MICROSOFT	1	0	0	0	1
34	ZS-ASSOCIATES	1	0	0	0	1
35	UHG	0	3	1	0	4
36	CAPITAL IQ	2	0	0	0	2
37	LUCID INFOTECH	1	0	0	0	1
38	ACCENTURE	8	4	11	0	23
39	SAPIENT	3	0	2	0	5
40	IBM	1	0	1	0	2
41	COGNIZANT	2	0	1	0	3
	JOB OFFERS	177	88	77	14	356

MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY						
PLACEMENT-2014						
SR.NO	COMPANY	BRANCH				TOTAL
		CSE	IT	ECE	EEE	
1	MICROSOFT	2	1	0	0	3
2	INFOSYS	76	42	44	11	173
3	IMPETUS	4	0	0	0	4
4	LIBSYS	5	2	0	0	7
5	NEC	0	1	0	0	1
6	MARKIT	2	1	0	0	3
7	NEWGEN	11	3	0	0	14
8	HITACHI	1	0	0	0	1
9	VINSOL	0	1	0	0	1
10	CSC	13	11	5	3	32
11	COMPRO	5	1	0	0	6
12	COGNIZANT	41	38	23	9	111
13	M-PHASIS	1	1	1	0	3
14	IBM	3	4	2	0	9
15	UNISYS	0	4	0	0	4
16	3-PILLERS INFOTECH	2	0	0	0	2
17	SAP-LABS	2	1	0	0	3
18	AIG	0	0	0	1	1
19	ENDEAVOR CAREERS	1	2	0	0	3
20	HCL	6	1	3	3	13
21	JOSH TECH	0	2	0	0	2
22	TCS	19	12	5	5	41
23	OSS-CUBE	3	4	0	0	7
24	HOT COCOA	0	1	0	0	1
25	WNS GLOBAL	2	0	0	0	2
26	SNAP DEAL	3	2	0	0	5
27	BSB HIKE	1	2	0	0	3
28	FLABERRY	2	0	0	0	2
29	PRACTO	1	0	0	0	1
30	INDIAN ARMY	1	1	1	0	3
31	ACCENTURE	10	8	9	6	33

32	CADENCE	0	0	3	0	3
33	RBS	0	1	0	0	1
34	SOPRA	4	7	0	0	11
35	TOSHIBA	3	4	2	1	10
36	LUMINOUS	0	0	1	1	2
37	SAMSUNG R&D	9	3	0	0	12
38	CMC	0	0	3	0	3
	JOBS	233	161	102	40	536

MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY						
PLACEMENT- STATUS: BATCH- 2015						
SR.NO	COMPANY	BRANCH				TOTAL
		CSE	IT	ECE	EEE	
1	MICROSOFT	2	2	0	0	4
2	INFOSYS	105	41	77	15	238
3	ARICENT	50	23	25	0	98
4	CSC	7	4	2	1	14
5	VINSOL	0	3	0	0	3
6	HEALTZEN	1	2	0	0	3
7	LIBSYS	3	5	0	0	8
8	NAGARRO	2	3	2	0	7
9	OPTIMUS	0	1	0	0	1
10	NEWGEN	4	2	0	0	6
11	COMPRO	2	0	0	0	2
12	M-Phasis	1	6	7	0	14
13	Q-Spear	2	1	0	0	3
14	STERIA	0	2	0	0	2
15	POLESTAR	1	2	0	0	3
16	YAMAHA	4	0	0	0	4
17	ASP MINDS (BA)	1	0	0	0	1
18	TAVANT	2	2	2	0	6
19	HCL	4	6	5	0	15
20	SAP LABS	0	0	1	0	1

21	MU-SIGMA	4	1	3	0	8
22	JOSH LABS	4	0	0	0	4
23	TRIGENT	1	2	0	0	3
24	OSS CUBES	2	1	0	0	3
25	NIIT TECH	1	0	0	0	1
26	ENDEVOUR	0	1	3	0	4
27	SNAP DEAL	5	5	0	0	10
28	SOLARMAN	0	0	0	2	2
29	HIKE	1	0	0	0	1
30	TRIPOTO	1	0	0	0	1
31	SOPRA	5	1	0	0	6
32	INDUS TOWERS	0	0	0	2	2
33	ERICSSON	4	0	4	0	8
34	CAPITAL IQ	1	0	0	0	1
35	ASP MINDS (PMT)	0	0	1	0	1
36	ACCENTURE	9	5	19	4	37
37	AMADEUS	1	1	1	0	3
	JOB OFFERS	230	122	152	24	528

MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY						
PLACEMENT-STATUS: BATCH- 2016						
		BRANCH				
SR.NO	COMPANY	CSE	IT	ECE	EEE	TOTAL
1	MICROSOFT	3	0	0	0	3
2	INFOSYS	96	49	74	16	235
3	ACCENTURE	131	78	114	26	349
4	MU SIGMA	14	10	5	0	29
5	NEWGEN	2	0	0	0	2
6	NAGARRO	1	1	1	0	3
7	SAP LABS	1	0	0	0	1
8	LIBSYS	3	0	0	0	3
9	NEC	5	3	0	0	8
10	PAY U	4	0	0	0	4

11	MOBILE LABS	1	0	0	0	1
12	E&Y	4	0	1	0	5
13	TAU LABS ⁽³⁾	0	0	2	0	2
14	KOENIG SOL	10	5	4	0	19
15	COMPRO	2	1	0	0	3
16	CVENT	1	2	0	0	3
17	JOSH TECH	1	0	0	0	1
18	MIND INFO	0	1	0	0	1
19	YAMAHA	0	1	0	0	1
20	TCS	1	6	3	1	11
21	HCL	2	0	3	0	5
22	INDUS TOWERS	0	0	0	1	1
	JOBS	282	159	204	45	690

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Grievance redressal committee for the current academic year **2015-2016** is headed by Dr. A.K.SINGH as its Chairman and other senior professors as its members as listed below.

- I. Dr. Puneet Azad (Associate Professor, Member)
- II. Mr. Manoj Malik (Assistant Professor, Member)
- III. Mr. Naveen Dahiya (Assistant Professor, Member)
- IV. Dr. Sumita Dabas (Assistant Professor, Member)

Objectives of Grievance Redressal Committee

The Committee is entrusted to deal with the following complaints of the aggrieved students:

- Making admission contrary to merit determined in accordance with the declared admission policy of the Institute.
- Irregularity in the admission process adopted by the Institute.
- Refusing admission in accordance with the declared admission policy of the Institute.
- Withhold or refused to return any document in the form of certificates of degree, diploma or any other award or other document deposited with it by a person for the purpose of seeking admission in such Institution with a view to induce for compel such person to pay any fee or fees in respect of any course or programme of study which

such person does not intend to pursue.

- Demand of money in excess of that specified in the declared admission policy or approved by the competent authority to be charged by such Institution.
- Breach of the policy for reservation in admission as may be applicable.
- Complaints of alleged discrimination by students from schedule caste, schedule tribes, OBC, Women, Minority or disable categories.
- Nonpayment or delaying payment of scholarships to any students that such Institution is committed, under the conditions imposed by AICTE, or by any other authority.
- Delay in conduct of examination or declaration of result beyond that specified in the academic calendar.
- On provision of student amenities as may have been promised or required to be provided by the Institution.
- Denial of quality education as promised at the time of admission or required to be provided.
- Non transparent or unfair evaluation practices.
- Harassment and victimization of students including sexual harassment.
- Refund of fees on withdrawal of admission as per AICTE instructions from time to time.

One grievance incident was reported for the academic year 2014-15 and resolved satisfactorily.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

- A Women Grievance Redressal Committee has been constituted in the institute under Sexual Harassment of women at workplace (Prevention, Prohibition and Redressal) Act 2013.
- It aims to provide protection against sexual harassment of women at workplace and for prevention and redressal of complains of sexual harassment and for matters connected therewith and incidental thereto.
- Prof. Poonam Bansal is the Presiding Officer of this committee and the Institution has taken a decision to handle the incidents of sexual harassment strictly.
- An internal Complaints Committee has been constituted pursuant to the provisions of Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013.
- Any aggrieved women may make, in writing, a complaint of sexual harassment at workplace to the ICC. ICC may inquire and investigate into the case and take the necessary action.

- The members of the committee for the current academic year **2015-2016** comprises of faculty members from college and from NGO's also:

1. Prof.Poonam Bansal(Presiding Officer)
2. Dr. MeenaTushir(Member)
3. Dr. Man Singh(Member)
4. Mr. Sunil Gupta(Member)
5. Dr, RekhaTripathi(Member)
6. Smt. Pinki Rani(External Member from NGO)

One incident was reported and resolved satisfactorily.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

- The institution has a core anti ragging committee including members from faculty.
- The students have to fill up an affidavit at the time of admission declaring that they shall never participate in ragging. If any student is found guilty in any kind of physical or mental ragging, the committee takes strict action against him or her.
- The basic aim of the committee is to make the Campus ragging free.
- The members of the committee keeps vigilance throughout the campus and hostels to prevent any ragging activities of the students. If any ragging case is observed, the committee examines and recommends appropriate punishment to the candidate who is involved with ragging.
- Anti-ragging campaign is made through display of banners at all important places in and around the campus.
- Anti-Ragging committee for the current academic year **2015-2016** is headed by Dr. K.P.Chaudhary as Chairman and some senior professors as members as listed below.

- i. Dr. Man Singh (Associate Professor, Member)
- ii. Ms. Meena Rao(Assistant Professor, Member)
- iii. Mr. Dinesh Sheron(Assistant Professor, Member)
- iv. Ms. Sapna Singh (Assistant Professor, Member)
- v. Mr. Sandeep Sheron(Assistant Professor, Member)
- vi. Mr. Manoj Malik (Assistant Professor, Member)
- vii. Dr. RekhaTripathi (Assistant Professor, Member)
- viii. Mr. Naveen Dahiya (Assistant Professor, Member)
- ix. Mr. Parveen Kumar (Assistant Professor, Member)
- x. Ms. NishthaJatana (Assistant Professor, Member)

- Anti-ragging information is given to all first year students on their first day in the college. Anti-ragging measures are taken in the college campus, hostels and college buses.
- Helpline numbers are displayed everywhere in the campus which include the contact numbers.

One ragging incident was reported for the academic year 2014-15 and resolved satisfactorily.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

Following are the welfare schemes available to the students:

1. **NSS program** for 1st year students-Plantation, Campus cleaning, Blood donation, winter collective drive (Old clothes donation to Homes).
2. **PRAKRITI SOCIETY** was set up which is eco and humanitarian society of MSIT. It includes various events like interacting with slum children, Blood donation, Pink-a-thon for breast cancer awareness, 'Swachh Bharat Abhyan' and a two day inter-college festival where MSIT collaborated with various NGO,s .
3. The institute gives cash prizes to its meritorious students.
4. The institute helps/facilitates students to get government scholarships.
5. Post matric scholarships to students are also given.
6. Anti-ragging committee is there to help students move freely in the campus.
7. Committee against sexual harassment aims to provide protection against sexual harassment of women at workplace and for prevention and redressal of complains of sexual harassment and for matters connected therewith and incidental thereto .It provides safety and security to the women in the institute.
8. Scholarships are also given to the top three students from each branch annually as a token of encouragement and appreciation.

5.1.14 Does the institution have a registered Alumni Association? If yes, what are its activities and major contributions for institutional, academic and infrastructure development?

The institute has an Alumni association through which the college interacts with the alumni. Institute takes Alumni Feedback to improve functioning and services of organization. An Alumni meet is also organized in the institute to network and collaborate with the Alumni. Our alumni association works as partners to bridge the gap between the industry and academics. Alumni also support in placement and continue bringing good name to the organization. The registration procedure for the same is under process.

5.2 STUDENT PROGRESSION

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

BRANCH	Student Progression	%			
		Year(pass out year)	2013	2014	2015
ECE	UG to PG	9.32	11.02	6.77	Under process
	Employed through campus selection	49.15	55.08	50.26	48.24(still going on)
	Other than campus recruitment	9.32	7.63	3.08	4.61(still going on)
CSE	UG to PG	NIL	6.2	18.25	Under process
	Employed through campus selection	94	96	NIL	84(still going on)
	Other than campus recruitment	15	17	NIL	Under process
IT	UG to PG	6.5	11.1	6.3	Under process
	Employed through campus selection	57	73.5	69	74(still going on)

IT	Other than campus recruitment	NIL	NIL	NIL	Under process
EEE	UG to PG	10.9	1.9	NIL	Under process
	Employed through campus selection	21.81	50.9	31.74	53.4(still going on)
	Other than campus recruitment	12.72	9.8	4.76	Under process

5.2.2 Provide details of the program wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish program-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Academic Performance: A Comparative Picture of Results					
Department	Institute	Pass (%)			
		2008-2012	2009-2013	2010-2014	2011-2015
IT	Maharaja Surajmal Institute Of Technology	94.03	97.3	100	100
	Bharati Vidyapeeth's College of Engineering	98.12	98.63	98.5	96.72
	Maharaja Agrasen Institute of Technology	95.16	96.72	96.82	81.96
ECE	Maharaja Surajmal Institute Of Technology	92.86	95.7	99.11	100

ECE	Bharati Vidyapeeth's College of Engineering	97.63	95.56	95.34	96.06
	Maharaja Agrasen Institute of Technology	85.38	89.28	87.13	96.15
CSE	Maharaja Surajmal Institute Of Technology	89.76	98.8	100	100
	Bharati Vidyapeeth's College of Engineering	96.6	100	98.5	97.01
	Maharaja Agrasen Institute of Technology	93.89	95.90	91.2	86.25
EEE	Maharaja Surajmal Institute Of Technology	93.10	96.4	98.03	94.8
	Bharati Vidyapeeth's College of Engineering	98.32	100	96.87	98.3
	Maharaja Agrasen Institute of Technology	83.01	87.93	89.83	87.87

5.2.3 How does the institute facilitate student progression to higher level of education and/or towards employment?

- The institute conducts seminars and workshops at regular intervals on various topics to facilitate student progression to higher level of education and towards employment. It makes them aware about the latest trends in competitive exams and they become familiar with the latest research areas.
- Institute takes students for industrial visits from time to time. Various Group Discussion and Personal Interview sessions are also held to help students in interviews.
- The institute also assists students with their placement. The college has a well-organized Training and Placement Cell, which has organized many campus interviews for the students and many reputed organizations like TCS, Infosys, Wipro and IBM have recruited a large number of students from this college. A good numbers of students are working in the government sector also.
- Mock interviews are also conducted for their preparation.

Talks, Seminars and conferences held by CSE department

SNO.	Event Description	Date	Resource Persons	Usage and Citations etc.
1.	Seminar on Internship and research opportunities.	20 th August ,2012	Mr. Akash Dang and Mr. Anubhav Tyagi , Vice Chairperson, IEEE MSIT.	Internship and research opportunities
2.	Seminar on “Master in Engineering Management and planning and preparing CAT 2012”	5 th September 2012	IMS faculty	Master in Engineering Management and planning and preparing CAT 2012
3.	Seminar on “ARM7 CORTEX 3”	10 th September 2012	Faculty MSIT	Architecture and computational power of ARM microcontrollers
4.	On IEEE MSIT celebrated IEEE DAY by Technical Project Exhibition	6 th Oct. 2012		Technical Project Exhibition
5.	Workshops on “Robotics and Web Development (Joomla)”	19 th and 20 th Oct. 2012	IEEE member	Robotics and Web Development (Joomla)
6.	Annual series of lecture on “FOCAL POINT”	9 th November, 2012	IEEE member	Series of lecture
7.	Seminar on the topic “Recent Advances in Microwave Technologies”	17 th Nov.2012	Dr. Ananjan Basu.	Microwave Technologies
8.	Xquizite, Annual inter college quiz.	20 th November 2012	IEEE Society members	Inter college quiz

9.	Workshop on “Speech Recognition and Image Processing” on in MSIT.	17 th to 21 st December 2012 ,	Academicians	Speech Recognition and Image Processing
10.	Workshop on “Android Bootcamp”	on 23 rd & 24 th January 2013	IEEE	Android Bootcamp”
11.	Lecture on “ WIE FORUM OF DELHI SECTION ”	1 st February , 2013	IEEE	FORUM OF DELHI SECTION
12.	Annual Meet IEEE	2 nd February , 2013	IEEE	Annual Meet
13.	Workshop on Twitter Bootstrap	22 nd April 2013	IEEE	Twitter Bootstrap
14.	Workshop on Digital Image Processing	9 th & 10 th March 2013	IEEE	Digital Image Processing
15.	Seminar on “Android Apps and its Market”	14 th August, 2013.	Mr. Sagar Suneja	Android Apps
16.	Closing ceremony of Summer Grand Program	27 th August, 2013	IEEE	Summer Grand Program
17.	Workshop on “Cern Meet the Scientist Events”	5 th September, 2013.	IEEE	Cern Meet
18.	Seminar on the topic “Android Application for Social Security”	7 th September, 2013.	Mr. Sagar Suneja	Android Application
19.	Lecture on “Focal Point”	9 th Nov. 2013	IEEE	Series of Lectures
20.	Seminar under “Star Program”	2 nd December, 2013.	John C. Crosby	Star Program
21.	Visit to NGO “	12 th January,	Ms.Pallavi	NGO visit

	A visit for a cause”	2014.	Goswami	
22.	A workshop on “Artificial Intelligence and Machine Learning”	10 th & 11 th February, 2014	Mr. Anshul Jain	AI and Machine learning
23.	workshop on “HTML-5”	12 th & 13 th April 2014.	IEEE members	HTML-5
24.	Report-Talk on “Microsoft Internship Program”	12 th -13 th Aug, 2014	Ayush and Amit (Final year students MSIT)	Student Talk
25.	Seminar on "How to crack CAT Exam" by "Ankganit"	20th Aug.' 2014	Representative from Ankganit	CAT exam preparation
26.	Red Hat Linux Administration	14th Oct, 2014	Mr. Santosh Gupta	Red Hat Linux
27.	Hackathon	Jan 2015	IEEE CS chapter and Hackerearth	online hacking competition
28.	Avensis 2015	25 th - 26 th March 2015		Technical Fest
29.	Genesis 2015	27 th March 2015		Cultural Fest
30.	Seminar on "Emerging Trends in Information Technology"	6th September, 2015	Mr. Anshul from OSA infosystem	
31.	Workshop on "Android"	12th September, 2015	Ms. Ankita from CETPA infotech	Android
32.	Workshop on “Robotics”	7th October, 2015	i3indya technologies	Robotics
33.	Seminar on CAT preparation	14th October 2015	Mr. Ankit Gaur from ANK GANIT	CAT Preparation

34.	Seminar on GRE preparation	20TH October,2015	Mr. BIJUY	GRE Preparation
35.	TedX event	21st October	Mega Event with no. of eminent speakers	
36.	Workshop on Code Optimization	30th October, 2015	Mr. Manu Lauria from DKOP Labs Pvt. Ltd.	Coding
37.	CodeStart	31st October, 2015	IEEE CS chapter and HackerEarth	a coding competition
38.	Workshop on Google Docs.	8th January, 2016	Mr. Navdeep Bohra, MSIT	General Purpose
39.	Workshop on Machine Learning	29 Jan 2016	IEEE CS chapter	General Purpose
40.	Seminar on Latest Techniques in Information Technology	9th March, 2016	Cepta India Pvt. Ltd.	
41.	HCL Internship Test	11th March, 2016	HCL Technologies	Internship Exam
42.	IBM Internship Test	18th March, 2016	IBM Technologies	Internship Exam

Talks, Seminars and conferences held by IT department

S. No.	Event Description	Date	Resource Person/Company	Usage and Citations etc
1.	Seminar	30.01.2015	Mr Ashish Chopra	Agile ways of working in Industries
2.	Industrial Trip	28.02.2015-03.03.2015	Tata- Motors	Industrial to educational trip to Tata Motors, Jim Corbett
3.	Seminar	21.03.2015	Dr. Sunil Kumar Khatri Director, Amity University	Software Reliability

4.	Seminar	12.09.2015	Mr. KeshavJha, Senior Android Trainer, CETPA Infotech	Evolution on Android Development
5.	Seminar	30.09.2015	Mr. Kamal Seth, Chief Happiness Officer and WioletaBurdzy, Human Circle	Effective communication- Creating your personal branding, facing interviews, building your resume
6.	Seminar	16.10.2015	Credence Corporate Solutions	Microsoft .NET and First Interview Tips by Industry Experts
7.	Seminar	20.10.2015	Mr. Kamal Seth, Chief Happiness Officer and WioletaBurdzy, Human Circle	Entrepreneurial Outlook Development
8.	Seminar	29.10.15	BHEL	Inter college Debate on “Who plays a vital role in developing a clear/transparent society – Citizen or System?”
9.	Workshop	05.11.15	Indya Technologies	Workshop on “Basic Internet and Cyber Security”
10	Seminar	16/10/2015	Mr. Anurag Head Catalyst	Vedic Mathematics
11	Seminar	6/10/2015	Mr. Mayank , IMS Gaziabaad	MBA Preparation
12	Seminar	25/08/ 2015	Ms. AartiSaxena	Personal Interviews
13	Seminar	9/9/2015	IMS Gaziabaad	Vocabulary Development

Talks, Seminars and conferences held by EEE department

S. No.	Event Description	Date	Details	Resource Person
1	Industrial Trip	28 th Aug , 2012	Visit to Arise India Ltd.,Sonapat (Haryana)	Arise India Pvt. Ltd. Sonapat (Haryana)
2	Industrial Trip	18 th Feb, 2013	Visit to 220KV Grid Substation Dwarka DTL	220KV Grid Substation, Pappankalan, Dwarka
3	Industrial Trip	4 th March, 2013	Visit to NPTI, Badarpur	NPTI, Badarpur
4	Seminar	15 th March, 2013	Seminar on Solar Power Projects	Mr. Sanjay Srivastava, Beehtel India Pvt. Ltd.
5	Industrial Trip	4th April, 2013	Visit to GRIDTECH2013	GridTech,Pragatimadain ,New Delhi
6	Industrial Trip	7th April, 11th April, 2013	Visit to AD Hydro Power Plant, Kulu Manali	Allain Duhangan Hydro Power Plant,Kulu Manali
7	Industrial Trip	20th April, 13	Visit to IIT Delhi Open House	IIT Delhi
8	Seminar	21st March, 2013	Prospectus of Summer Training	Mr. V.K.Saina,Max Academy
9	Seminar	Aug 30,2013	Mock Interview	Er. Romil Kumar
10	Seminar	27-Sep-13	Mock Interview	Sh. B.D. Prasad
11	Seminar	16th April, 2014	Mock Interview	Mr. V.K.saina
12	Seminar	4th Oct,2013	Seminar on Switchgear & its Protection	Mr. Mridul Gupta, C&S Electrical
13	Seminar	21st Oct, 2013	Seminar on Industrial Automation	Sofcon India Pvt. Ltd

14	Seminar	12th Nov, 2013	Seminar on Inverter Converter Applications	Mr Vishal Puri & Mr. Dharamveer Singh, Arise India Pvt. Ltd.
15	Seminar	3rd Feb, 2013	Seminar on Autocad	CADD Center
16	Seminar	30th April, 2014	Seminar on Emerging Opportunities for EEE students	Mr. Pradeep joshi, Mr. Bhanu Prasad, Dr. Su Kumar
17	Industrial Trip	11th Feb, 2014	Visit to 220 KV, Pappankalan	220KV Grid Substation, Pappankalan, Dwarka
18	Industrial Trip	28th April, 2014	Visit to 220KV GIS, Peeragarhi	220KV GIS, Peeragarhi
19	Industrial Trip	1st Marsh, 2014	Visit to Arise, Sonapat	Arise India Pvt. Ltd. Sonapat (Haryana)
20	Industrial Trip	Aug 30, 2013	Visit to Rajghat Power House	Raghat Power House, ITO, New Delhi
21	Industrial Trip	25th Nov, 14	Visit to Solar Power Plant, Gurgaon	Solar Power Installation, Ansal API
22	Seminar	26th Nov, 2014	Seminar on Real world	Mr. Mahesh Gupta, Eriscon India Pvt. Ltd.
23	Seminar	13th oct, 2014	Seminar on Basics of Grid	Basics of Grid connected and OFF Grid Solar Solutions
24	Industrial Trip	29th Oct & 30th oct, 2014	Visit to 21st IETF	Grid Tech
25	Industrial Trip	27th Feb, 2015	Visit to Grid Tech 2015	Grid Tech
26	Industrial Trip	8th April, 2015	Visit to Ambuja Cement	Ambuja Cement
27	Industrial Trip	14th Sept, 2015	Visit to 220KV pappankalan	DTL (Delhi Transco Ltd.)
28	Industrial Trip	24-27th Oct, 2015	Visit to JayPee Cement Plant	Jay Pee Cement Plant

29	Seminar	11th sept, 2015	Seminar on Industrial Automation	Cepta India Pvt .Ltd
30	Workshop	16th Oct, 2015	Workshop On PLC	Futuronix

Talks, Seminars and conferences held by ECE department

Sr. No.	Event Description	Date	Details	Resource Person /Purpose
1	Industrial Visit	September 11, 2013	Industrial Visit at NPL	Visit of Solar Cells Labs at NPL
2	Industrial Visit	Sept.29 – Oct. 2, 2013	ARIES Industrial Visit	Industrial Visit at ARIES, Nanital
3	Industrial Visit	October 14, 2013	CEL Industrial Visit	CEL Industrial Visit, Sahibabad
4	Industrial Visit	October 15-19, 2013	Ambuja Cements, Nalagarh / Manali Industrial Trip	Industrial Visit
5	Industrial Visit	February 25, 2014	Industrial Visit at NPL	Visit of Solar Cells Labs at NPL
6	Industrial Visit	March 22, 2014	Industrial Visit at PCM Exim Pvt Ltd, Noida Phase-II	Fabrication Unit
7	Industrial Visit	Nov 1, 2014	Students sent to Industrial Visit “Industry Links, work placements and career pathways in Engineering”	Professor Robert, Vice Chancellor & president, Loughborough University
8	Industrial Visit	Nov 10 - 14, 2014	Industrial Visit to “C-DAC, Mohali / Daramshala”	Industrial Visit to Labs of C-DAC, Mohali

9	Industrial Visit	April 4- 8, 2015	Industrial Visit to Parle-G, Pant Nagar / Sattal	Industrial Visit
10	Industrial Visit	Sep 30, 2015	Industrial Visit to ARIES, Nanital	Industrial Visit
11	Industrial Visit	Oct 24-27, 2015	Industrial Visit to <i>Jaypee Himachal Cement Grinding & Blending</i> Unit, Nalagarh	Industrial Visit
12	Industrial Visit	Oct 29, 2015	Industrial Visit on Department of Electronics and Information Technology, (DEITY), Electronics Niketan, CGO Complex, Lodhi Road	Industrial Visit

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out.

- Students at the risk of failure and drop out are identified by the Proctor and are provided special attention and counseling.
- Special classes are held to support such students with studies. Additional handouts are given to weak students so that they can improve in studies. Student performance record is sent to their homes to update/inform the parents.
- Parent Teacher Meeting is also held to discuss their performance with the parents. Tutorials/extra classes are held for these students by faculty members of the concerned subjects.
- Repetition of lecture, regular class tests and personal guidance in the teaching-learning process are adopted.
- Notes, links to NPTEL lectures and Power Point Presentation are also made available on MOODLE for their help.

5.3 STUDENT PARTICIPATION AND ACTIVITIES

5.3.1 List the range of sports, games, cultural and other extracurricular

activities available to students. Provide details of participation and program calendar.

- Institute provides a range of sports, games, cultural and other extracurricular activities available to students because exposure to these activities is very important for the all-around development of students.
- An annual **Sports Meet** is held in the college. It includes various events like March Past, Race, Long Jump, Discus Throw, Cricket match/ volleyball etc.
- The students from the institute are also encouraged to participate in the annual **Sports Meet** held in the GGSIP University campus. Many of our students excel in these competitions and win medals and prizes.
- The Institute organizes an annual inter-institutional Cultural-Festival **GENESIS** and a Technical- Festival **AVENSIS**. The various activities within the two major events include singing, dancing, debates, quizzes, blind art, poster presentation, nail art, presentations, coding, street painting, paper dressing, counter strike, art exhibition, scrap modeling, web designing, tattoo mania, NFS, treasure hunt, etc.
- The students are also encouraged to participate in the annual festival at the university named **ANUGOONJ**.
- . The following is the list of events held during these Festivals along with their program schedule:

**ANNUAL SPORTS MEET 2015-2016 (1ST & 2ND FEBRUARY 2016)
1st February (Monday)**

PROGRAMME

1.	9:00am	March Past & Torch lighting
2.	10:00 am	800 mtrs. Finals(Men & Women)
3.	10:30 am	Long Jump (Men)
4.	10:30 am	Shot Put (Women)
5.	11:00 am	Long Jump (Women)
6.	11:00 am	Shot Put(Men)
7.	11:30 am	100 meter's. (Heats) (Men)
8.	11:30 am	Javelin Throw (Women)
9.	12:00 pm	Javelin Throw (Men)
10.	12:00 pm	100 meter's. (Heats) (Women)

LUNCH BREAK (1 TO 1:30 PM)

1.	1:30 pm	200 meter's. Race (Heats) (Men)
2.	1:30 pm	Triple Jump (Women)
3.	2:15 pm	Triple Jump (Men)
4.	2:15 pm	200 meter's. Race (Heat)(Women)
5.	3:00 pm	400 meter's. (Heats)(Men)
6.	3:30 pm	4X200 meter's. Relay(Heat/final) (Women)
7.	4:00 pm	4X200 meter's. Relay(Heat/final) (Men)
8.	4:30 pm	400 meter's. (Heats)(Women)

**ANNUAL SPORTS MEET 2015-2016 (1ST & 2ND FEBRUARY 2016)
2nd February (Tuesday)**

PROGRAMME

1.	9:00 am	200 meter's. (Finals) (Women)
2.	9:00 am	High Jump(Men)
3.	9:30 am	Discuss Throw(Women)
4.	10:00 am	200 meter's. (Finals)(Men)
5.	10:30 am	400 meter's. (Finals)(Women)
6.	11:00 am	Discuss Throw (Finals)(Men)
7.	11:30 am	100 meter's. (Finals) (Men)
8.	12:00 am	400 meter's
9.	12:30 pm	Tug-of-War(Men & Women)

LUNCH BREAK (1 TO 1:30 PM)

(PROGRAMME FOR FACULTY)

1.	1:30 pm	100 meter's(Men)
2.	2:00 pm	50 meter'(Women)
3.	2:15 pm	Musical Chair(Women)
4.	3:00 pm	Tug-of-War(Men & Women)
5.	3:30 pm	Cricket match/ Volleyball
6.	4:30 pm	Closing of Annual Sports Meet

AVENSIS 2016(3rd & 4th February)

February 3rd, 2016			
DAY 1			
S No.	NAME	TIMINGS	VENUE
1.	FIFA	09:30-4:30	LG-2
2.	ALGOJAM	09:30-4:30	LG-4
3.	DOTA 2	09:30-4:30	LG-6
4.	Laser Trap	09:30-4:30	LG-1
5.	Call of Duty	09:30-4:30	LG-8
6.	Counter Strike	09:30-4:30	LG-9
7.	NFS	09:30-4:30	LG-10
8.	Encoded Beans	11:00-4:30	LG-11
9.	ANONYMOUS	10:30-4:30	LG-12
10.	Karaoke Movielicious	09:30-4:30	Room 02 Room 05
11.	Hackathon	09:30-4:30	Hall 06
12.	Interactive Session, Designing, Techvilla	09:30-4:30	# 105
13.	Online Coding	12:30 - 02:30	Internet Lab + #402
14.	Eco Maze	11:30-4:30	Ground
15.	Ultimate Challenge	10:00-4:30	Ground
16.	Journalism Parliamentary Debate	09:00-4:30	Room 107 Room 110
17.	Decathlon	10:00-4:30	Room 206
18.	Gali Sports Android Gaming	09:30- 04:00	Bank Ground + Ground
19.	Carnage	9:30-4:30	MSIT Ground
20.	Robo Wars	9:30-4:30	MSIT Ground

21.	Robo Rugby	9:30-4:30	MSIT Ground
22.	Junkyard Wars	9:30-4:30	MSIT Ground
23.	Robo Maze	9:30-4:30	Room 307
24.	Ultimate Challenge Eat or Quit	9:30-4:30	MSIT Ground
24.	Line Follower	9:30-4:30	Room 504
25.	Quizes & Kavi Samelan	9.30-4.30	Auditorium

February 4th, 2016 DAY 2			
S No.	NAME	TIMINGS	VENUE
1.	Online Coding	10:00-2:00	Internet Lab #402
2.	Clash Debate	9:00-12:00	#206
3.	DOTA 2	9:00-2:00	LG-6
4.	Call of Duty	9:00-2:00	LG-8
5.	Counter Strike	9:00-2:00	LG-9
6.	NFS	9:00-2:00	LG-10
7.	Spell Bee	9:00-12:30	Room 105
8.	Hackathon	9:00-3:00	Hall 06
9.	Cue Sports	9:00-2:00	Ground
10.	Football & Basket Ball	9:00-2:30	Ground
11.	Robo Rugby Robo Wars	9:00-2:00	Ground
12.	Gali Sports	9:00-2:00	Ground
13.	Carnage, TOW	9:00-2:00	MSIT Ground

14.	Junkyard, Treasure Hunt	9:00-3:30	MSIT Ground
15.	Journalism	9.00-1.30	Room 107
16.	Ultimate Challenge, Gagman Camera	09:00-2:00	Ground
17.	Robo Maze	9.00-2.00	Room 307
18.	LFR	9.00-2.00	Room 504
19.	Quizes	9.00-2.00	Auditorium
20.	Roast	9.00-2.00	Room 106

Genesis 2016(February 4th ,5th)

1. FINE ARTS				
S. No.	Event Name	Date	TIME	Venue
1	Rangoli	5 th	9:30 am -12:00 pm	Corridor
2	Tattoo Designing (INKREDIBLE)	4 th	1:30 pm - 2:30 pm	Corridor
3	Face Painting	4 th	2:00 pm - 3:00 pm	Corridor
4	Photography (MOMENTS)	4 th	2:00 pm - 3:00 pm	Class Room-04 (MSI)
2. DRAMATICS				
S. No.	Event Name	Date	TIME	Venue
5	Street Play (SANGHARSH)	4 th	3:30 pm - 4:30 pm	Front Lawn
6	Mono Acting (ADAKARI)	4 th	4:00 pm -5:00 pm	Seminar Hall 406
3. MUSICAL				
S. No.	Event Name	Date	TIME	Venue
7	Solo Song (Indian) [ALAAP]	5 th	9:30 am -11:00 am	Auditorium

8	Solo Song (Western) [ALAAP]	5 th	9:30 am -11:00 am	Auditorium
9	Battle of Bands	4 th	3:00 pm - 4:00 pm	Auditorium
4.DANCE EVENTS				
S. No.	Event Name	Date	TIME	Venue
10	Solo Dance(Indian+ Western) [JUST DANCE]	4th	1:30 pm - 3:00 pm	Auditorium
11	Group Dance (Indian+ Western) [BEE BOP]	5th	11:00 am -12:00 pm	Auditorium
5.PERSONALITY				
S. No.	Event Name	Date	TIME	Venue
12	Mr. & Ms. Genesis2k16	5th	12:00 pm - 4:00 pm	Auditorium
6.FUN GAMES				
S.No.	Event Name	Date	TIME	Venue
13	Beg, Borrow, Steal	5th	9:30 am - 11:00 am	Inner Lawn
14	Entertainment Quiz [PIRATE FLEX]	4th	1:30 pm - 3:00 pm	Seminar Hall 406
15	Ad Mad Show	4th	3:00 pm- 4:00 pm	Seminar Hall 406
16	Futsal	5th	9:00 am - 11:00 am	Ground
17	Devil's Circuit	4th	3:00 pm - 4:30 pm	Ground

5.3.2 Furnish the details of major student achievements in co-curricular, extra-curricular and cultural activities at different levels: University / State / Zonal / National / International, etc for the previous four years.

The college encourages the students to participate in both co-curricular and extra-curricular activities. The students are allowed to participate in various sports, cultural events and other extra-curricular activities. The list of activities along with the achievements of the students is listed in the table below.

Year 2015-16

S No.	Event	Date	Venue	Participation & Achievements
1.	English Debate	March 2016	GGSIPIU	1 ST prize, Nishtha, Ayush
2.	Group song, Indian	March, 2016	GGSIPIU	2nd prize Gaurang Sahu, Shubham Virmani, Shubham Varshne, Ayush Gupta, Shashwat Dabbas, Abhishek Jain, Bhuvnesh Mehra, Suman, Kshitiz Tomar, Soham Roy
3.	North zone inter university football championship (men)	Janaury, 2016	Amity university, Noida	Jyotirmay sharma, participation
4.	North zone inter university football championship (men)	Janaury, 2016	Amity university, Noida	Saransh negi, participated
5.	North zone inter university basketball championship (women)	December, 2015	Rohilkhand university, uttarPradesh	Devesh, participated
6.	North zone inter university basketball championship (women)	December, 2015	Rohilkhand university, Uttar Pradesh	Munish, participated
7.	North zone inter university	November , 2015	Aligarh muslim	Tarkitpawar, participated

	cricket championship (men)		university, U.P	
8.	Chess (men)	October, 2015	GGSIPU	Divyanshu hasija, gold in annual university sports meet
9.	Triple jump (men)	October, 2015	GGSIPU	Yogesh hooda, gold medal in annual sports meet
10.	Chess (men)	October, 2015	GGSIPU	Iqbal singhgulati, silver medal in annual university sports meet
11.	Football boys	October, 2015	GGSIPU	silver medal in in annual university sports meet
12.	Basketball (girls)	October, 2015	GGSIPU	silver medal in in annual university sports meet
13.	4*400mtrs race	October, 2015	GGSIPU	Jaidev, silver medal in in annual university sports meet
14.	4*400mtrs race	October, 2015	GGSIPU	Sachin, silver medal in in annual university sports meet
15.	4*400mtrs race	October, 2015	GGSIPU	Sanket, silver medal in in annual university sports meet
16.	4*100mtrs race	October, 2015	GGSIPU	Jaidev, silver medal in in annual university sports meet
17.	4*100mtrs race	October, 2015	GGSIPU	Sachin, silver medal in in annual university sports meet
18.	4*100mtrs race	October, 2015	GGSIPU	Sanket, silver medal in in annual university sports meet
19.	4*400mtrs race	October, 2015	GGSIPU	Aman, bronze in annual university sports meet
20.	4*400mtrs race	October, 2015	GGSIPU	Karan, bronze in annual sports meet

21.	4*100mtrs race	October, 2015	GGSIU	Karan, bronze in annual sports meet
22.	400 metres race	October, 2015	GGSIU	Sachin, bronze medal in in annual university sports meet
23.	IEEE Women in Engineering International Leadership Summit	10 th -12 th September , 2015.	Chennai, Tamil Nadu	Chetna Batra
24.	IEEE MTTs European Microwave Week 2015	6 th -11 th September 2015	Paris	Anand Pratap Singh Sengar
25.	Delhi Student-Young Professionals-Women In Engineering Congress	5 th and 6 th September , 2015	Jamia Millia Islamia University, New Delhi	Aakash Bansal, Vardaan Monga, Monica Tatawat, KV Navya, Ayush Girdhar, Nakul Adhikari, Kshitij Tomar, Shivam Sehgal. Varshini Ailavajhala was one of the organizers of this Congress
26.	All India Student and Young Professional Congress	7 th -9 th August, 2015	Ernakulam, Kerala	Aakash Bansal and Monica Tatawat
27.	IEEE R10 Student/Young Professionals/ WIE Congress	9 th -12 th July 2015	Colombo, Sri Lanka	Varshini Ailavajhala and Gitansh Anand

28.	IEEE Student Congress Delhi	10 th -11 th Jan,2015	DTU, Delhi	AnkurSinghal, TusharKathoria, NishthaTaneja, Tushar Gupta, Prince Chopra, ChetnaBatra, VardaanMonga, Aakash Bansal, Navya Srinivas, Monica Tatawat
29.	High performance student branch chapter	2015	Delhi	Awarded to IEEE PES MSIT
30.	IEEE Outstanding Branch Counselor Award	2015	Delhi	Awarded to. Poonam Bansal, Deputy Director, IEEE MSIT, past Branch Counselor, IEEE MSIT
31.	Dr. JK Pal Memorial Best Student Award	2015	Delhi	Awarded to Varshini Ailavajhala, Anand Pratap Signh Sengar
32.	Outstanding Best Student Volunteer Award	2015	Delhi	Awarded to Aakash Bansal, Vardaan Monga
33.	Outstanding WIE Volunteer Award	2015	Delhi	Awarded to Shivani Kukreti
34.	Token of Appreciation for contribution to Delhi Section	2015	Delhi	Awarded to Varshini Ailavajhala, YashiSarbhay
35.	2 nd position	2015	GGSIPO	Praveen Kumar, CSE dept.(2011-15), university level project competition

36	Participated in the “Energy and sustainability Panel at Harvard Project for Asian and International Relations (HPAIR)	2015	Manilla ,Asia Conference	Rahul Rajpal
37	Presented Research paper “Melanoma Skin cancer detection using Image processing” in in	2015	DELHI	CSI-2015 conference published by Springer

Year 2014-15

S. No.	Event	Date	Venue	Participation & Achievements
1	4*400	2014, October	GGSIPIU	Sachin, gold medal in annual university sports meet
2	4*400	2014, October	GGSIPIU	Sachin kumar, gold medal in annual university sports meet
3	800 mtr	2014, October	GGSIPIU	Sachin kumar, silver medal in annual university sports meet
4	tug of war (women)	2014, October	GGSIPIU	Gold medal in annual university sports meet
5	cricket (boys)	2014, October	GGSIPIU	Gold medal in annual university sports meet
6	table tennis doubles boys	2014, October	GGSIPIU	Kaushal malik, gold medal in annual university sports meet
7	table tennis doubles boys	2014, October	GGSIPIU	Bhavyabhardwaj, gold medal in annual university sports meet
8.	IEEE MTTSA Asia Pacific Chapter Meeting	6 th Nov,2014	South Korea	Amit Choudhary

9.	IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2014)	12-15 th October, 2014	Istanbul, Turkey	Mansatha Garg
10.	IEEE All India Student Congress, 2014	6 th -8 th October 2014	Ahmedabad	GitanshAnand, AnkurSinghal, Siddharth Goyal, ShivaniKukreti, VarshiniAilavajhala, Mayur Gupta, Puja Samanta, Manastha Garg
11.	IEEE Delhi Section Quarterly meet	Sep-14	Delhi	Siddarth Goyal, Aakash Bansal, Vardaan Monga
12.	High performance student branch chapter	2014	Delhi	Awarded to IEEE PES MSIT
13.	Darrel Chong Student Activity Award (Gold)	2014	Delhi	Awarded to IEEE MSIT Student Branch
14.	Dr. JK Pal Memorial Best Student Award	2015	Delhi	Awarded to NayonikaShrama, GitanshAnand
15.	Outstanding Best Student Volunteer Award	2015	Delhi	Awarded to VarshiniAilavajhala
16	Outstanding WIE Volunteer Award	2015	Delhi	Awarded to AanchalBahl
17	Roboraze	4/1/2015	GBPEC Delhi	VaibhavChoudhary
18	Robothan	2/1/2015	DTU Delhi	Rishabh Malhotra
19	Selectios of the World skills Competition	2/1/2015	Pragati Maidan	Saurabh Singh

20	Weblop	3/1/2015	BPIT Delhi	Parmesh Dagar
21	Trail-o- Bot	3/1/2015	IGDTU Delhi	Naveen Soni
22	LFR	3/1/2015	GBPEC Delhi	Naveen Soni
23	Line of control	3/1/2015	AIACTR Delhi	Naveen Soni
24	Choreography	2015	IPU Dwarka	Shruti
25	Robothan	2/1/2015	DTU Delhi	Rohan Chhabra
26	MYSTERIA	3/1/2015	IGDTU	Navneet Jha
27	South Asian International Karate Championship	2015	New Delhi	Sumya Bhansali

Year 2013-14

S. No	Event	Date	Venue	Participation & Achievements
1	4 * 400 mtr race	October, 2013	GGSIU	Amit dagar, gold in annual university sports meet
2	4 * 400 mtr race	October, 2013	GGSIU	Dhruv, gold in annual university sports meet
3	table tennis (boys)	October, 2013	GGSIU	Gursewak sidhu, gold in annual university sports meet
4	chess (men)	October, 2013	GGSIU	Sachin malik, gold in annual university sports meet
5	4*100 mtrs race	October, 2013	GGSIU	Amit dagar, silver in annual university sports meet
6	4*100 mtrs race	October, 2013	GGSIU	Dhruv, silver in annual university sports meet
7	4*100 mtrs race	October, 2013	GGSIU	Shantanu, silver in annual sports meet
8	Shot put (men)	October, 2013	GGSIU	Bronze medal in annual university

				sports meet
9	IEEE Delhi Student Congress (2013)	December, 2013	Delhi	AanchalBahl, ShivaniKukreti
10	IEEE All India Student Congress, 2013	2013	Delhi	Saurabh Atirek, GitanshAnand, Arjun Narain, AnkurSinghal, Parmeet Singh, Vasu Yadav
11	IEEE MTTs Asia Pacific Chapter Meeting	7th November, 2013	South Korea	Saurabh Atirek
12	IEEE Student Section Network Officer's meet	2013	Delhi	Gitansh Anand, Arjun Narain
13	R.E. Merwin Scholarship	2013-2014	Delhi	Awarded to Pradyumn Nand, Chairperson IEEE CS MSIT
14	Darrel Chong Student Activity Award (Silver)	2013	Delhi	Awarded to IEEE MSIT
15	Dr. JK Pal Memorial Best Student Award	2014	Delhi	Awarded to Sumit Kumar, Amit Choudhary
16	Outstanding Best Student Volunteer Award	2014	Delhi	Awarded to Nayonika Sharma
17	Outstanding WIE Volunteer Award	2014	Delhi	Awarded to Chetna Sharma, Bhumika Gavery
18	Robo-Hustle	3/1/2014	Amity School of Engg	Jaideep Gahlaut
19	National Creativity Aptitude Test	2014		NavneetJha
20	Roboqva	2014	DTU	Anand Pratap Singh

Year 2012-13

S No	Event	Date	Venue	Participation & Achievements
1	Shot put	December	GGSIPU	Jatin, gold medal in annual university sports meet
2	Table tennis	December	GGSIPU	Gursewak singh sidhu, gold in annual university sports meet
3	Volleyball	December	GGSIPU	Kamal. Silver in annual university sports meet
4	Volleyball	December	GGSIPU	Jatin, silver medal in annual university sports meet
5	Volleyball	December	GGSIPU	Japan kumar, silver in annual university sports meet
6	Volleyball	December	GGSIPU	Amit kumar, silver in annual university sports meet
7	Tug of war	December	GGSIPU	Abhishek mathur, bronze in annual university sports meet
8	Tug of war	December	GGSIPU	Ankit hooda, bronze in annual university sports meet
9	Tug of war	December	GGSIPU	Avya dhankhar, bronze in annual university sports meet
10	Tug of war	December	GGSIPU	Krishan kumar, bronze in annual university sports meet
11	Tug of war	December	GGSIPU	Harender singhrangi, bronze in annual university sports meet
12	Tug of war	December	GGSIPU	Ashujoshi, bronze in annual university sports meet
13	Tug of war	December	GGSIPU	Rohitroy, bronze in annual university sports meet
14	Tug of war	December	GGSIPU	Vipinnegi, bronze in

				annual university sports meet
15	Football (girls)	December	GGSIPIU	Neha rani, silver in annual university sports meet
16	Football (girls)	December	GGSIPIU	Nancy jain, silver in annual university sports meet
17	Football (girls)	December	GGSIPIU	Riya tyagi, silver in annual university sports meet
18	Football (girls)	December	GGSIPIU	Swati rawat, silver in annual university sports meet
19	Football (girls)	December	GGSIPIU	Vriti malhotra, silver in annual university sports meet
20	Football (girls)	December	GGSIPIU	Manmit kaur, silver in annual university sports meet
21	Football (girls)	December	GGSIPIU	Preeti bora, silver in annual university sports meet
22	Football (girls)	December	GGSIPIU	Shelly, silver in annual university sports meet
23	400 mtr race	December	GGSIPIU	Amit, silver un annual university sports meet
24	tug of war (girls)	December	GGSIPIU	Manmeet kaur, gold medal in annual university sports meet
25	tug of war (girls)	December	GGSIPIU	Riya tyagi, gold in annual university sports meet
26	tug of war (girls)	December	GGSIPIU	Neha rani, gold in annual university sports meet
27	IEEE All India Student Congress	2012	Bangalore	AkshitaTyagi, Tushar Sharma, SimratSodhi
28	IEEE Outstanding Branch Counselor Award	2012	Delhi	Awarded to Ms. Vimal Gaur
29	Dr. JK Pal Memorial Best Student Award	2013	Delhi	Bagged by Akash Dang
30	Outstanding	2013	Delhi	Awarded to Daksh Goel

	Best Student Volunteer Award			
31	Outstanding WIE Volunteer Award	2013	Delhi	Awarded to AkshitaTyagi
32	Line Follower	4/1/2013	GTBIT	Abhishek Sharma
33	Academic	2012-2013	MBIT	Garima Vats
33	Chess	2013	GGSIU	Sachin Malik
35	Line Follower and Security	4/1/2013		Sumya Bhansali

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

- The final year students fill an exit survey at the end of their graduation to assess the institute facilities. The survey includes various assessment parameters such as research areas, hostel facilities, cultural activities in college, industrial visits, placements etc. The survey is further analyzed by the HOD for necessary action.
- Based on the feedback obtained from the final year students many improvements have taken place, lab upgradation has been done, a new canteen has been set up and more industrial visits are organized in each semester to support the concepts learned in the classes and familiarise the students to the real world. A number of expert lectures are also held to bridge the gap between academia and industry.
- All the Laboratories along with ones at the top-most floor (6th) of the institute have been made air-conditioned.
- Employer's feedback serves as an essential coordination and motivating factor for the institution during industry-institute interaction. It enables to strengthen technical skills, soft skills as well as nurture the diverse talent of the students to make them best suitable to meet the updated requirement of corporate culture. The Training and Placement Cell interacts with the recruiters and keeps the update of student's performance in the company which is provided to their respective departments. The departments use this information to improve the facilities. The college has increased the industrial visits and conducts seminar based on this feedback.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazines, and other materials? List the publications/materials brought out by the

students during the previous four academic sessions.

- The institute encourages the students to publish and share their creative thoughts in the form of articles in college magazine ‘**VISION**’.
- Editorial board consists of both students and faculty members as coordinator. They jointly take decisions regarding the publication of the college magazine which provides an opportunity to the students in decision-making. The College Magazine ‘**VISION**’ is published annually. Students are encouraged to contribute. It provides ample scope to the students to explore their skills.
- The annual magazine of IEEE named ‘**ICON**’ is also published by the students.
- ‘**SATYAM JOURNAL**’ is also published bi-annually. It publishes the research work of teachers and students. Students are also a part of the editorial team of the journal.
- Faculty also encourages the students to publish papers in reputed journals and conferences. Many students have done their research work under the guidance of faculties and have published their work in various journals and conferences.

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

- In every class, two class representatives are selected. These representatives regularly meet the Director and discuss their problems with him.
- Apart from that, every department has a student club / student body through which various events in the department are organized.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

- The institute has various academic and administrative bodies that have student participation. Various committees are also formed during Technical and cultural Festival and in the Sports-meet.
- The students are shortlisted and then the members are selected after holding interviews. These committees work in coordination with each other under the guidance of the convener. They organize various events, get funds and also maintain discipline during the Festival.
- Participation helps the students in their overall personality development. Participation in these bodies creates more opportunities for students to develop technical skill, update knowledge and personality.
- Faculty coordinators guide/help students in the smooth and efficient conduct of these activities. The main academic and administrative

bodies are :

- IEEE MSIT Student Branch
- IEEE MSIT Women in Engineering (WIE) Affinity Group
- IEEE MSIT Computer Society (CS)
- IEEE MSIT Microwave Theory and Technique Society (MTTS)
- IEEE Power and Energy Society (PES)
- Cultural committee
- Technical-Festival committee
- Prakriti

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the institution?

- An Alumni meet is organized in the institute to network and collaborate with the Alumni. The institute also has an online group known as— **MSIT ALUMNI ASSOCIATION** where alumni of the institute stay connected with the institute.
- Alumni also support in placement and continue bringing good name to the organization.
- They also conduct seminar, mock interviews .Some alumni who are now entrepreneurs and have set up their own companies for providing training, internship and jobs to the students.
- An Alumni Meet was organized recently by the institute on 30th April 2016 where the Alumni interacted with the Students, Management and the Faculty. The schedule was as follows:

Maharaja Surajmal Group of Institutions-Alumni Meet Day Schedule Venue (Auditorium)

Day Schedule : 30th April 2016			
S.No.	Events (Commencing at 9:00 A.M.)	Time	
1.	Tea and snacks	9:00 A.M.	
2.	Welcome Speech (By Student)	9:30 A.M.	
3.	Lamp Lighting	9:35 A.M.	
4.	Video of MSIT /MSI	9:40 A.M.	
5.	Talk/Interaction with Director Placements	10:00 A.M.	
6.	Talk/Interaction with Director General	10:15 A.M.	Informal discussion joined

7.	Talk/Interaction with Director MSIT /MSI	10:30 A.M.	by the Management Team of SMES
8.	Experience sharing by Alumni(MSIT/MSI)	10:45 A.M.	
9.	Experience sharing video of Alumni(MSIT/MSI)	11:00 A.M.	
10.	Hon'ble Chief Guest (President SMES) Speech, Participation of Hon'ble Treasurer & Hon'ble Secretary.	11:30 A.M.	
	Performance(Song)	11.50 A.M.	
11.	Memento presentation to Distinguished Alumni	12:10 P.M.	
12.	Recommendation for follow up actions	12:30 P.M.	
13.	Vote of Thanks by Deputy Director, MSIT	12:40 P.M.	
14.	Lunch	12:50 P.M.	

- Alumni provide feedback from time to time and this is used to improve the overall facilities and provide the best infrastructure to the students.
- Suggestions and recommendations are welcomed. This helps the college to know about the current location and organization of the Alumni.
- Former faculty members are invited as External Examiners and they are also invited as Speaker to give a TALK on their research topic.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1. Institutional Vision and Leadership:-

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

The stated Vision of the institution is as following:

VISION:

“To become one of the most admired centers of academic excellence in the field of Engineering & Technology for all-round professional development of students to enable them to meet the growing technological needs of the country”.

MISSION:

“Developing new paradigm in imparting education in the fields of Engineering and Technology and to imbibe national values leading to student's empowerment, with a view to prepare them to meet the national and global challenges”.

- The mission statement defines the institution's distinctive characteristics addressing the needs of international standards, knowledge and skills, core value of innovations, creativity, social and economic values, new development in science and technology for students. The institution strives at grooming the budding engineers in a conducive environment and in all technical facets so that they are empowered to contribute to the nation and society at large.
- The institute imbibes curiosity and supports innovativeness by providing guidance to use the technology effectively. The institution organizes co-curricular and extra-curricular activities for character and personality development to produce highly competent and motivated engineers and professionals to serve and lead the society.
- The institute is continuously improving and adopting new procedures to be recognized at international level for imparting high quality technical education and progressive research. The institute develops educational pathways so that students can take their career towards success.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

Quality policy of the institution is stated below:-

“The quality policy of Maharaja Surajmal Institute of technology is to achieve the highest standards in academics, research and industry-academia interactions.”

The Top management plays an important role of facilitator with adequate financial support for the academic and administrative infrastructure which works as basic backbone for very energizing teaching-learning delivery mechanism. The Top Management, the Director and Faculty members i.e, academia try to formulate system process and procedure for imparting quality education true to spirit of the institute's vision & mission of existence.

The following are the methods of design of quality policy and its implementations:-

- As per the quality policy, Institution follows the ISO 9001:2008 to achieve the strategic plan through ISO process.
- Every department prepares its Objective and Targets at the start of the academic session and prepares the action plans, procedures and guidelines to the faculty members in order to achieve the mission.
- The ISO Cell and IQAC cell monitor the progress of the objective and targets twice in a year. Any noncompliance if found is to be resolved/closed with the due consultation of higher authorities.
- The ISO Cell and IQAC cell formulated by the institution evaluate both the academic and administrative aspects of all the departments twice in a year and suggest remedial measures for improvement to boost the work culture of the department and thereby improving the quality of teaching and learning in management review meetings.
- The various needs at the departmental level are first discussed in the department meeting chaired by the Head of the Department (HOD). All the departmental issues are discussed in the HODs meeting chaired by the Director.
- Take Feedback from stakeholders like students, parents, employers, alumni etc. Their feedback is analyzed by the concerned HOD and the Director and is taken appropriate corrective actions. Feedback from pass out batch is sought regarding the teaching learning effectiveness and further improvement areas.

6.1.3 What is the involvement of the leadership in ensuring:

a) The policy statements and action plans for fulfillment of the stated mission:-

The leadership is involved in:-

- Formulation of the action plans, procedures and guidelines to the faculty members in order to achieve the mission.
- Ensuring the organization's quality management system development, implementation and continuous improvement according to ISO 9001:2008 standard.
- Extension of financial supports for the academic development and continuous improvement/ updates.

- Taking Feedback from stakeholders like students, parents, alumni etc. and their feedback is analyzed and discussed for corrective actions regarding the teaching learning effectiveness and further improvement areas.

b) Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan:-

As per the quality policy, Institution follows the ISO to achieve the strategic plan through ISO process. The purpose of ISO is to establish and maintain a system for reviewing the quality management system (QMS) at regular intervals to ensure its adequacy and effectiveness.

ISO has management review committee consisting of Director, ISO-MR (management representative), Deputy –MR, Department Representative and all HODs; they are authorized to modify the procedure and process based on the requirement and demand.

The following is ISO committee for current academic year (2016-17)

	Faculty	Designation and Department
1	Dr. Tripti Sharma (MR)(Convenor)	Associate Professor, IT Department
2	Dr. Anupama Kaushik (Dy.MR) Co-Convenor	Asst. Professor. IT Department
3	Ms. Nishtha Jatana (Dy.MR)	Asst. Professor. CSE Department

The following are the strategic plan through ISO process:

- The ISO committee establishes a system for understanding, implementation and updating of legal requirements such as:-
 - Ensuring that all the courses in the institute must be approved by AICTE.
 - Ensures that MSIT is affiliated to GGSIPU University.
 - Fulfills the university norms like filling of affiliation fees, academic audit committee report.
- The committee specifies formats for various documents, change control system and instructions for use.
- The committee establishes and maintains a documented procedure to ensure that necessary records are prepared and maintained to provide evidence of conformity to the specified requirements.
- The committee establishes and maintains a documented procedure for verifying the continuing suitability and effectiveness of the Quality Management System in compliance with ISO 9001:2008 standard.
- The committee establishes a process for handling and resolving the Non conforming services.
- The committee establishes a process for timely and effective, corrective and preventive actions.

- The committee establishes, implements and maintains a documented procedure for collecting, analyzing the data at various stages and uses the analysis results for continual improvement.
- The committee will monitor the sequential activities of the departments and college. Accordingly external/internal audit will be carried out.

c) **Interaction with stakeholders :-**

The institute interacts with stakeholder by the following ways:-

- Parents are informed about the student's performance, their attendance and sessional marks through sms service and displaying data on institute website and also during parent teacher meeting.
- The interaction with various stake holders is ensured through regular meetings of the designated administrative and academic bodies.
- Parent & Faculty meet twice in a year and in cases of specific needs parents can meet the HOD/faculty concerned at any time during the working hours of the college.
- Establishing contacts with industry to facilitate students exposure to the latest industrial and technological development.
- Providing industrial training to the students in the campus during summer vacations.
- Establishing E-cell to offer more industry oriented courses through curriculum.
- Taking Feedback from stakeholders and their feedback is analyzed and discussed for corrective actions regarding the teaching learning effectiveness and further improvement.
- Through alumni meeting

d) **Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders:-**

Top Management through the Director provides support for policy and planning by identifying the needs like infrastructure, faculty requirement etc. by the following ways:-

- Institute participates in meetings conducted by GGSIP University, and makes amendments that are needed in the policy and planning.
- The plan and policy of the college are such as to meet the market demand, industrial needs and stakeholders' requirement.
- Members of the Management, Director, HODs are all easily approachable and they welcome all stakeholders viz, Students, Parents, Alumni, industries etc., for any suggestion or compliance for improvements.
- Training and Placement cell is empowered to interact with various stakeholders and take feedback and suggestions related to programs required for better performance.

- Policy of the institution is to encourage the faculty members to upgrade their higher qualifications and to give all support to continue their work.

e) **Reinforcing the culture of excellence:-**

The institution takes several steps to create an environment for competitive academic activities and disciplined atmosphere by the following ways:-

- Institute sponsors the faculty members for presenting papers, attending seminars and workshops.
- Encouraging the faculty by providing duty leave or study leave to pursue their Ph.D.
- Institute promotes the faculty members to higher post after fulfilling the required criteria according to terms and conditions as shown below:-
 - Higher Qualification
 - Academic Performance
 - Activities organized and Participated
 - Research Publications
 - Publications of books, Monograms, Articles
 - Professional/academic membership
 - Service to the Department
 - Extra Curricular Activities
- Institute tries to achieve excellence in academic, co-curricular activities, sports activities etc.
- Institute motivates the faculty members by providing best faculty award of the institute in an academic year.
- Orientation programmes are conducted for the students to bring in a culture of excellence.
- Institution follows the ISO to establish and maintain a documented procedure for verifying the continuing suitability and effectiveness of the Quality Management System in compliance with ISO 9001:2008 standard.
- The institute monitors all the procedures and quality objectives through IQAC.

f) **Champion organizational change:-**

- The College is always ready to change in the procedure and process in the system as per the suggestions given by stakeholders and alumni for the better functioning of the Institution.
- The institution voluntarily introduced IQAC which ensures a periodic review of all the procedures and achieving the set quality objectives by all the departments.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The procedure adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation is described below:-

- Assurance of smooth & effective functioning of its internal Quality Assurance Cell
- Institution follows the ISO to establish, implement and maintain a documented procedure for collecting, analyzing the data at various stages and uses the analysis results for continual improvement.
- The ISO Cell and IQAC cell monitors the progress of the objective and target twice in a year. Any noncompliance if found is to be resolved/closed with the due consultation of higher authorities.
- Proper monitoring of any policy/ plan introduced by Management
- Assessment of performance of the institute by university at the end semester examination.
- Various FDPs, Seminars and Workshop organized by the institute for supporting the faculty in improving their academic skills.
- Take Feedback from stakeholders like students, parents, alumni etc. and their feedback is analyzed and discussed for corrective actions regarding the teaching learning effectiveness and further improvement.
- The ISO Cell formulated by the institution evaluates both the academic and administrative aspects of all the departments twice in a year and suggests remedial measures for improvement to boost the work culture of the department and thereby improving the quality of teaching and learning in management review meetings.
- Management is seriously reviewing the faculty appraisal which reflects the performance of the faculty member and decisions are taken for performance improvement.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The top management recruits qualified or Industrial experienced Director and HODs who play an important role of providing academic leadership to the departments of various faculty members. The faculty members help in driving the activities to implement the policies and plans through various committees. The following committees for the academic session 2015-16 have been constituted for the smooth functioning of various academic activities as shown below:

S.no	Committee	Faculty Incharge	Designation and Department
1	JAC/GGSIPU Affiliation and AICTE Approval	1) Dr. Puneet Azad, Convenor 2) Sh. Manoj Malik, Co-Convenor 3) Ms.Kavita Sheoran	HOD, ECE HOD, IT (E) HOD, CSE

		4) Ms.Koyal Dutta Gupta	Associate professor, CSE
2	GGSIU Academic Audit Committee Cell	1) Dr. Meena Tushir, Convenor 2) Dr.Prabhjot Kaur, Co- Convenor	HOD, EEE HOD, IT
3	ISO	1) Dr. Tripti Sharma (Convenor) 2) Dr. Anupma Kaushik, Co- Convenor 3) Ms. Nishtha Jatana	Associate Professor, IT Asst. Prof. IT Asst. Prof. CSE (E)
4	NBA Accreditation	1) Sh. Tajinder Arora, Cordinator 2) Dr. Suman Mann 3) Sh. Sunil Gupta 4) Ms. Vimal Gaur 5) Dr.Brijpal Singh 6) Mr.Sushil Kumar	Reader, ECE Associate Professor, IT Reader, EEE Reader, CSE Reader, Ap.Sci. Asst. Prof.CSE
5	IQAC	Sh.Pradeep Sangwan, Convenor	Reader, ECE
6	Dean (Academics)	1) Dr.Meena Tushir, Convenor 2) Ms.Archana Balyan, Co- Convenor	Associate Prof.EEE Associate Prof.ECE
7	Exam Cell	1) Ms. Jyoti Jain, Convenor 2) Dr. Koyal D. Gupta, Co- Convenor 3) Mr. Manoj Malik 4) Mr.Parveen Kumar	Reader, EEE Associate Professor, CSE HOD,IT (E) A.P, ECE
8	Time Table Committee	1) Mr.Jayesh Kumar, Convenor 2) Mr. Mohit Deswal, Co- Convenor	Asst.Prof.App.S ci Asst.Prof.App.S ci
9	TechFest (2015-16)	Mr.Naveen Dahiya, Convenor	HOD,CSE(E)
10	Cultural Activities	1) Ms.Deeba Naqvi, Convenor 2) Dr.Anju Dhillon, Co- Convenor	Asst.Prof.App.S ci. Asst.Prof.App.S ci.
11	Sports Activities	Dr.Vivek Solanki, Convenor	A.P, App.Sci.

The faculty members also perform the following duties:-

- Class Proctor and Co-proctor
- Class Mentor
- Subject Coordinator
- Lab in-charge

6.1.6 How does the college groom leadership at various levels?

In academic matters, the Head of the respective Departments plays a pivotal role and acts as the leader of the team. Teaching Faculty plays an important role in various administrative activities and occupies leadership position in the functioning of various activities of the college as explained above.

Faculty members also occupy different positions in various activities like:-

- a) Personality Development Cell Incharge
- b) Prakriti Environment Club Incharge
- c) NSS incharge
- d) Member of Sexual Harassment Cell
- e) Member of Discipline/Anti ragging Committee
- f) Internet incharge
- g) Institute website incharge
- h) Infrastructure Committee
- i) Editorial Board of the institute (Vision)
- j) Waste Management committee
- k) Fire and safety committee
- l) Air conditioners and water cooler maintenance in charge

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

- The major decisions related to the function of the Institution are taken by the Governing body and are delegated to the Director for implementation. Further the institute follows the decentralized governance system.
- All the heads of Department are authorized to take decision in the department level with full academic autonomy within the overall guidelines of Director of the institute.

6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.

Yes, the Institute promotes a culture of participative management. All academic and administrative activities are decentralized and decisions are taken based on discussion and deliberations in Director's meetings with HOD, Functional Head, department meetings of HOD with Faculty, and various committee meetings comprising of faculty/ staff and students. Minutes of such meetings are recorded and issued to all concerned. Participative management allows

collaboration and cooperation between departments and functionaries thereby improves the quality of accomplishment of any activity.

Members of the management regularly meet the faculty members and convey their vision, objectives and other development plans. During this interaction the faculty also gives their views and opinions about the functioning of the institute.

6.2 Strategy Development and Deployment:-

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

Yes, the institute has a formally stated quality policy. Quality policy has been developed in consultation with Top Management. The policy is reviewed by the top management through ISO committee and this committee establishes and maintains a system for reviewing the quality management system (QMS) at regular intervals to ensure its adequacy and effectiveness

Quality policy of the institution is as following:

“The quality policy of Maharaja Surajmal Institute of technology is to achieve the highest standards in academics, research and industry-academia interactions”

Quality policy is achieved by:-

- Implementing quality system and process with provision for constructive feedback and continual improvements.
- Networking with leading business, industry and research organizations culminating in holding seminars/workshops at national and international levels and enhancing the research publications.
- Fostering culture for doing creative and innovative work.
- Being consistent, reliable and sincere in all our systems and processes.
- Providing - state - of the art infrastructure and requisite amenities – conducive for teaching, research and industrial applications.
- Enhancing the competence of faculty to a high level and to make them adopt latest and innovative methods in teaching – learning process.
- Inculcating moral and ethical values among students and staff.
- Aspiring and endeavoring towards making the institute an “institution of excellence” and a benchmark for others to follow.

The following are the quality policy reviewing methods:-

- Monthly Academic progress report is prepared by each department according to ISO policy and examined by ISO Committee under the guidance of Director.
- The ISO committee establishes implements and maintains a documented procedure for collecting, analyzing the data at various stages and use the analysis results for continual improvement.

- The institution voluntarily introduced IQAC which ensures a periodic review of all the procedures and achieving the set quality objectives by all the departments.

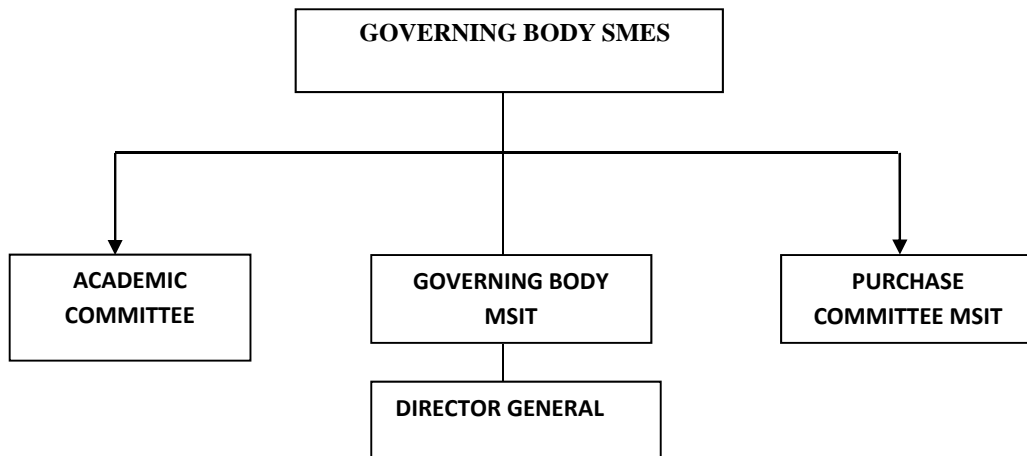
6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

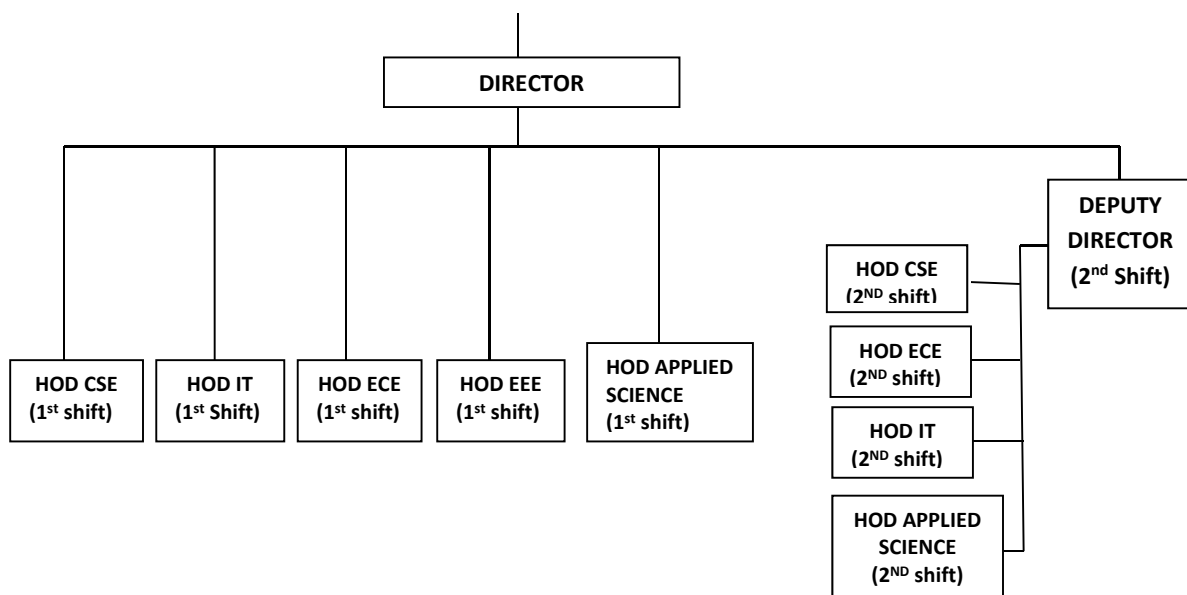
Yes; the institute has a perspective plan for development. It is developed by the Director & HoDs of various departments under the broad guidance of governing body.

The perspective plan is generally drawn inputs from recommendation of the following committee like:

- The major decisions related to the function of the Institution are taken by the Governing body and are delegated to the Director for implementation.
- Academic Committee of Director and HoDs discuss all the issues of departments. Director is able to convey the problems to management.
- The ISO Cell and IQAC cell monitors the progress of the objective and targets twice in a year. Any noncompliance if found is to be resolved/closed with the due consultation of higher authorities.
- Internal and External audit by ISO and Academic audit cell of GGSIPU and the suggestions given by them are taken into account and the non compliance report is rectified. The audits give the feedback about the areas where there is scope for improvement.
- Feedback from stakeholders and their feedback is analyzed and discussed for corrective actions regarding the teaching learning effectiveness and further improvement.
- Establishing E-cell to offer more industry oriented courses through curriculum.

6.2.3 Describe the internal organizational structure and decision making processes.





a) The Academic decision making process of the college:-

- The Academic Committee of Governing body is the body to which all decisions taken are forwarded for discussion and ratification.
- The Governing body executes all the decisions taken by the Academic Committee.

b) The Administrative decision making process of the College:-

- The various needs at the departmental level are first discussed in the department meeting chaired by the Head of the Department (HOD).
- All the departmental issues are discussed in the HODs meeting chaired by the Director.
- Approvals related to infrastructure requirement and financial involvements are forwarded to the Governing body for necessary action.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following:-

Institute has initiated a number of developmental policies for the incremental growth. The policies and the strategies adopted for the same are listed below:-

a) Teaching and learning:

Institution makes regular effort to enhance the skills and ability of faculty members by organizing in house- training programs or deputing the faculty member for faculty development program. The Institute improves the quality of teaching by several means such as :-

- Faculty members prepare the course file for the subjects taught by them. The course file is checked by the other senior subject expert faculty member to ensure the quality of lecture notes.
- The institution has a feedback system to evaluate the teachers by students. The feedback from students is obtained by online feedback system for all subjects. Their feedback is analyzed by the concerned HODs. Based on assessment of performance, HOD gives necessary directions for the improvement in the teaching methods.
- All the faculty members are required to submit self-appraisal report every year in the prescribed format. MSIT has evolved a standard method of evaluating the teaching, research and administrative activities of the faculty. The information furnished by the faculty member will be analyzed by the HOD, Director and the score sheet of each faculty member is submitted to the management. Management is seriously reviewing the faculty appraisal which reflects the performance of the faculty member and decisions are taken for performance improvement.
- The visits are arranged to industries, institution of higher education and research, national laboratories and non-governmental organizations to make the subjects more informative.
- Two internal Audits and one external audit are planned every year for each department to check and monitor whether all the process is being followed or complied with the guidelines of GGSIPU.
- IEEE MSIT has been significant in organizing workshops, short term project initiatives, scientific excursions, lecture Series and competitions since its beginning. IEEE MSIT has conducted many hands-on workshops on robotics and Arduino, web development, and Android amongst others. In this academic session, IEEE MSIT launched the Short Term Project Initiative where students from 1st and 2nd year worked with the 3rd and 4th year students in the field of machine learning, game development using Python, electronics, and robotics for 2 months to gain practical knowledge in their interest area.
- Institute has started moodle through which students and faculty members can share knowledge and exchange their thoughts.
- Teaching faculties are provided training in teaching methodologies by the experts from various prestigious institutes like IITs, JNU, NSIT , DTU and GGSIPU.
- Institute establishes E-cell to offer more industry oriented courses through curriculum.

b) Research and Development:

The following are the efforts made by the institute to enhance the professional development among faculty members:-

- The faculty members are encouraged to participate in National/International level seminars. They are provided financial assistance for this purpose. The

faculty members who attend such seminars/ conferences share their experience with students and faculty with latest information and talent developments.

- Study leave is provided to faculty members who wish to pursue Masters or PhD programs.
- Encourage faculty members for research publication in various reputed international journal.
- All the faculty members of various departments are also encouraged to organize, and FDP, Workshops, Training Programs and Seminars.
- Adequate journals, reference books, internet, lab facilities are made available and specially provided if required.
- Organizing Seminars and FDPs within the college for supporting the faculty in improving their academic skills every semester.

c) Community engagement:-

Every institute has social as well as economic responsibility. The courses run by institute have both social and economic relevance. Institute understands its responsibility in the socio economic parameters and serves the society by following ways:-

- Students are encouraged to participate in activities for social and community service. Blood donation camps are organized in the institute.
- Organizing annual sports meet and cultural events with aim to bring out the hidden talents of students.
- Students are guided regarding the future prospects of various options. Further they are sensitized for the societal responsibilities through guest lectures.
- Institute has Prakriti a student's community that addresses the environmental concern regularly among the students and faculty. Prakriti, the eco club of MSIT, was founded on 3rd March ,2010, in the wake of need for a institute society that aims at promoting and increasing environmental consciousness, awareness and responsibility amongst the institute youth and the populace. Through its various programs, Prakriti provides institute students opportunities to develop problem-solving, decision-making and leadership skills, which enable them to participate in future community development as engaged and active citizens.
- Many industrial houses conduct job placement in institute campus. Students are placed with various reputed companies like Microsoft, Snap-Deal, TCS, IBM, Infosys and many more.
- Institute organized a camp during summer vacations for rural students of different states to give them knowledge about competitive environment in technical and higher education.
- NSS unit of Institute applies the ethos of mass participation of its students in activities related with social cause/ Community development of neighborhood.

d) Human resource management:-

1) Recruitment Policy: The institution follows the GGSIPU University and AICTE guidelines in the selection of faculty members in order to ensure that qualified and competent persons are selected by a well-defined procedure. The recruitment procedure is described as below:-

- **Advertised for the post:** Through newspaper advertisement/website the candidates are requested to send their resume to the Institute.
- **Scrutiny of applications:** While scrutinizing the applications, AICTE qualification norms are followed by the institute. The submitted resumes are analyzed by the Screening Committee and the eligible candidates are intimated for interview by sending e-mail/Post after fixing the interview date.
- **Selection committee:** The selection committee comprises of the Management, Director General, Director, and a team of external subject experts. A personal cum technical interview will be conducted to assess the knowledge of the candidate. The candidates are asked to demonstrate their teaching skills or achievements through a presentation in the presence of the selection committee. The selection committee members analyse the performance of the candidate and submit the report to the Management. Based on the performance in the interview, a list of selected candidates is prepared.
- **Issue of appointment letter:** The Director of the institute issues the appointment letter. The appointments are approved by the Governing Body during its regular meetings.

2) Industry interaction :

Institute has established contacts with industry to facilitate students' exposure to the latest industrial and technological developments by the following ways:-

- The institution has established an E-Cell that teaches the students how to establish their own business and to be "job givers" and not to be "job seekers".
- Internship of students in industries.
- Train the students during summer vacations.
- To offer more industry oriented courses through curriculum.
- To conduct job placement in institute campus so that students get placed with various reputed companies like Microsoft, Snap-Deal, TCS, IBM, Infosys and many more.
- To take feedback from industries and their feedback is analyzed and discussed for technical skills improvement.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The Director collects the information through following ways:-

- Feedback from students, Alumni, parents
- A suggestion box provided near the corridor of the Director's office
- HODs meeting
- Various committee meeting

The Director communicates and deliberates the information with the management by the following ways:-

- Academic performance of different departments throughout the year printed in institute magazine (Vision)
- Information of various activities are available in minutes of the meeting of all the departments.
- Minutes of meeting of governing body
- Annual report available
- Take feedback from parents during parent-teacher meeting
- Take feedback from alumni
- Monthly attendance of each students is made available on institute website and is also circulated among the students through proctors.
- Time-table, syllabus, lecture plan of each department and profile of each faculty are made available on institute website and updated every academic year.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

Management encourages and supports the staff in improving the effectiveness and efficiency of the institutional process by the following ways:-

- The faculty members are encouraged to participate in National/International level seminars. They are provided financial assistance for this purpose.
- Study leave is provided to faculty members who wish to pursue Masters or PhD programs.
- Encourage faculty members for research publication in various reputed international journals.
- All the faculty members of various departments are also encouraged to organize FDP, Workshops, Training Programs and Seminars.
- Organizing Seminars and FDPs within the college for supporting the faculty in improving their academic skills every semester.
- On duty leave is also provided for academic activity such as external examiner for practical, papers evaluation etc.
- Institute promotes the faculty members to higher post after fulfilling the required criteria according to terms and conditions as shown below:-

- Higher Qualification
- Academic Performance
- Activities organized and Participated
- Research Publications
- Publications of books, Monographs, Articles
- Professional/academic membership
- Service to the Department
- Extra Curricular Activities
- Institute motivates the faculty members by providing best faculty award of the institute in an academic year as shown below

(Best Faculty Award)

S.No.	Year	Faculty Name	Department
1	2012-13	Dr. Prabhjot Kaur	HOD, IT
2	2013-14	Dr. Puneet Azad	HOD, ECE

- Best Faculty Awards are given based on the following criteria:-
 - a) Result of last two semesters
 - b) Contribution towards organizing academic and administrative activity (Department and institute level), co-curricular activities (culture fest, sports, student development activities, NAAC, AICTE, Magazine, Debate, Quiz)
 - c) Contribution in organizing seminars/conference/workshops etc. during the year
 - d) Research and academic contributions (Published/accepted in journals)
 - e) Training courses and conference/seminars/workshops attended during the year
 - f) GATE/NET cleared during academic year

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

Following are the resolutions made and implemented:

- The chairman stated that those faculty members who have completed their PhD and have specified minimum experience, have been promoted. So three faculty members are promoted to the next post as shown below:

S.No.	Faculty Name	Post	Department	Date of Joining
1	Dr. Koyal Datta Gupta	Associate Professor	CSE (1 st Shift)	30.03.2016
2	Dr. Suman Mann		IT (1 st Shift)	30.03.2016
3	Dr. Tripti Sharma		IT (1 st Shift)	30.03.2016

- In context of improvement of infrastructure, the chairman stated that air conditioners activity should start from 6th floor onwards to create the proper working environment for teaching and learning process. Air conditioners activity on 6th floor is completed.
- Rest of minutes of meeting is attached in **annexure 6.2.7**

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If ‘yes’, what are the efforts made by the institution in obtaining autonomy?

No, GGSIP University does not provide any autonomy to an affiliated institute.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

Yes, the institution has student’s Grievances committee, sexual harassment cell and discipline committee for its employees and students with a senior Professor/Associate Professor functioning as Chairperson.

The functions of these committee are:-

- To receive the Grievances/complaints
- To examine the nature of the grievances/complaints and send it to the concerned committee
- Impartial decision and solution.

(Student’s Grievances Committee)

S.No.	Faculty Name	Designation and Department
1	Prof.A.K.Singh (Convenor)	HOD, App. Sci
2	Dr.Puneet Azad (Co- Convenor)	HOD, ECE
3	Dr. Sumita Dabas	Asst.Prof. App.Sci.
4	Mr.Manoj Malik	HOD, IT (2 nd Shift)
5	Mr. Naveen Dahiya	HOD, CSE (2 nd Shift)
6	Ms.Shaily Malik	Asst.Prof., CSE

(Sexual Harassment Committee):-

S.No.	Faculty Name	Designation and Department
1	Dr. Poonam Bansal (Convenor)	Deputy Director
2	Dr.Meena Tushir (Co- Convenor)	HOD, EEE
3	Dr. Man Singh	Associate Prof. App.Sci.
4	Dr. Rekha Tripathi	HOD, App.Sci (2 nd Shift)
5	Mr. Sunil Gupta	Reader EEE

(Discipline Committee)

S.No.	Faculty Name	Designation and Department
1	Dr. Man Singh (Convenor)	Associate Prof. App.Sci.
2	Dr. Rekha Tripathi (Co- Convenor)	HOD, App.Sci (2 nd Shift)
3	Mr.Manoj Malik	HOD, IT (2 nd Shift)
4	Ms.Nidhi Gupta	Asst.Prof. EEE
5	Ms.Shaily Malik	Asst.Prof., CSE

- Proctor and Co-proctor of the class discuss the academic and administrative problems and the grievances of the students and students can express their grievances/ complaints in writing email to the Director or HOD.
- Students are also free to consult the Head of the Department in case of their grievances.
- Grievances/problems can be discussed during parents-teacher meeting.
- A suggestion box is provided near the corridor of the Director's office.
- Students can describe their grievances or problems in feedback form.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

No court case has been filed or pending against the institute during last four years.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

- Yes; the Institution has a mechanism for analyzing the student feedback on Institutional performance. The institution has a feedback system to evaluate the teachers by students. At the end of each semester, the feedback from students is obtained online for all subjects. In this feedback, questions regarding performance of the teachers are sought. Their feedback is analyzed by the concerned HOD. Based on assessment of performance, HOD gives necessary directions for the improvement in the teaching methods. Director also monitors the feedback system and takes appropriate corrective actions. The faculty members whose performance is not satisfactory are identified by the HOD of each department and appropriate counseling is taken on the poorly performed teachers.
- Feedback regarding the Institution from passed out students is collected and on the basis of such feedback, the Director is able to interact with faculty and HODs to improve the Institutional performance. Also, the Director is able to convey the problems discussed in the meeting to management. The Management finally helps the director in taking proper decision & action to improve the overall performance of the institution.

6.3 Faculty Empowerment Strategies:-

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?

MSIT has various policies/system in place for the professional development of the faculty in acquiring the knowledge of recent developments and engaging them in the research activities. The following are some of the highlights:

- The faculty members are encouraged to participate in National/ International level seminars. They are provided financial assistance for this purpose.
- Encouraging the faculty by providing on duty leave or study leave to pursue their Ph.D.
- Encourage faculty members for research publication in various reputed international journals.
- All the faculty members of various departments are also encouraged to organize, and FDP, Workshops, Training Programs and Seminars.
- Organizing Seminars and FDPs within the college for supporting the faculty in improving their academic skills every semester.

- On duty leave is provided for academic activity such as external examiner for practical, papers evaluation etc.
- Promotes the faculty members to higher post after fulfilling the required criteria.
- Organizes expert lecture/guest lecture for teaching or non-teaching staff to upgrade their skills and knowledge.
- The incentive scheme has been introduced to promote research and publication activities among faculty members. This scheme involves special recognition with an award of Rs.51, 000/-for best faculty award.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

To attract the new faculty and to retain the existing teachers, the institute provides requisite facilities like salaries as per AICTE norms and 6th Pay commission, research facilities like library and internet, study leaves, casual leaves, medical leaves and special leaves to attend seminars, conferences and workshops and on duty leaves to take part in university evaluation process etc. Following strategies are adopted by the institute for empowerment of faculty through the roles they perform as:-

- The Institute conducts faculty development programmes to motivate the faculty members.
- A new recruited faculty is guided to make course file, PPT slides and to follow lesson plan, schedule of lectures before the commencement of class.
- Senior faculty members assess the new appointed faculty members and provide personal level feedback for improvement in teaching – learning.
- During the semester his teaching is monitored, corrected if required by the senior faculty.
- Motivate the faculty by giving best faculty award that is given based on the following criteria:-
 - Result of last two semesters
 - Contribution towards organizing academic and administrative activity (Department and institute level), co-curricular activities (culture fest, sports, student development activities, NAAC, AICTE, Magazine, Debate, Quiz)
 - Contribution in organizing seminars/conference/workshops etc. during the year
 - Research and academic contributions (Published/accepted in journals)
 - Training courses and conference/seminars/workshops attended during the year
 - GATE/NET cleared during academic year
 - Encouraging the faculty by providing on duty leaves to pursue their Ph.D. and other academic activities like papers evaluation, External Practical Examiner and University Representative.

- The Institute promotes the faculty members to higher post after fulfilling the required criteria based upon the following parameters as shown below:-
 - Higher Qualification
 - Academic Performance
 - Activities organized and Participated
 - Research Publications
 - Publications of books, Monograms, Articles
 - Professional/academic membership
 - Service to the Department
 - Extra-Curricular Activities

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

The Institution has a well defined self-appraisal system which reflects the performance of the faculty. The areas in which faculty members are appraised are listed below:

- Qualification upgradation
- Academic Performance
- Activities organized and Participated
- Research Publications
- Publications of books, Monograms, Articles
- Professional/academic membership
- Service to the Department
- Extra Curricular Activities
- Admission activities

The performance appraisal system is described below:-

- All the faculty members are required to submit self-appraisal report every year in the prescribed format. Review of faculty self-appraisal final report: MSIT has evolved a standard method of evaluating the teaching, research and administrative activities of the faculty. The information furnished by the faculty member will be analysed by the HOD, the Director and the score sheet of each faculty member is submitted to the management. A soft copy is attached in **annexure 6.3.3**
- Each faculty submits his documentary proof of each activity in which he or she has participated.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

Management is seriously reviewing the faculty appraisal form and the following benefits are accorded:

- Consideration for promotion and promotes the faculty members to higher post after fulfilling the required criteria.
- Encouragement for higher professional qualification.
- Organizing Seminars and FDPs within the college for supporting the faculty in improvising their academic skills every semester.

Major decisions taken by the Management for performance improvement are communicated in staff meetings, department meetings and Governing body meetings. The performance evaluation is discussed by the HODs and the Director with the faculty concerned and is suitably advised for better performance.

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

The institute provides requisite facilities like salaries as per AICTE norms and 6th Pay commission, research facilities like library and internet, study leaves, casual leaves, medical leaves and special leaves to attend seminars, conferences and workshops and on duty leaves to take part in university evaluation process etc.

The management has put several welfare measures in place for the teaching as well as non-teaching staff besides the salary package. Such provisions are listed below:-

S.NO	Welfare Scheme	Percentage of staff have availed the benefit			
		2012	2013	2014	2015
1	Provident Fund	100	100	100	100
2	Maternity Leave for lady faculty	6.41	13.79	3.49	14.44
3	Earned Leave Facility for non-teaching	100	100	100	100

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

For attracting & retaining eminent faculty, the institute resorts to the following measures:-

- The institute provides requisite facilities like salaries as per AICTE norms and 6th Pay commission.
- The Institute promotes the faculty members to higher post after fulfilling the required criteria based upon the following parameters as shown below:-

- Higher Qualification
- Academic Performance
- Activities organized and Participated
- Research Publications
- Publications of books, Monographs, Articles
- Professional/academic membership
- Service to the Department
- Extra Curricular Activities
- The following faculty members are promoted for next higher post as shown below:-

S.No.	Faculty Name	Post	Department	Date of Joining
1	Dr. Koyal Datta Gupta	Associate Professor	CSE (1 st Shift)	30.03.2016
2	Dr. Suman Mann		IT (1 st Shift)	30.03.2016
3	Dr. Tripti Sharma		IT (1 st Shift)	30.03.2016

- Encouraging the faculty by providing study leaves to pursue their Ph.D.
- The faculty members are encouraged to participate in National/International level seminars by providing financial assistance for this purpose.
- On duty leave is provided to take part in university evaluation process like external examiner for practical lab, papers evaluation, university representative etc.
- Faculty with high academic credentials, recognition and reward schemes is well placed in the system e.g. Best Faculty Award based upon performance criteria.

6.4 Financial Management and Resource Mobilization:-

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

The financial resources of the institute are managed in a very effective and foolproof manner as described below:-

- HODs prepare a budget for the next financial/academic year after taking into account the requirements for the next academic year and submit the same to the Director. The management reviews the departmental budget proposals.
- Budget proposal is submitted to the governing body meeting for approval. After getting approval from the governing body the funds are allotted as per the proposal. The purchase is made strictly according to the given budget proposal. If any deviation occurs in the budget, respective HODs give justification so that subsequently the same can be rejected or approved as the case may be. Following this procedure, unnecessary purchases are avoided and the available funds are effectively utilized.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

The institution has a pre-defined mechanism for internal and external audit.

- Internal audit is conducted by ISO internal auditor. Internal Audit is conducted twice in a year by ISO auditors.
- External audit is conducted by external ISO auditors and External Academic Audit is conducted by GGSIP University.

The ISO audit committee (MR, Dy.MR and One faculty from various departments) conducts academic audit periodically with prior intimation to each department to assess the academic process and submit the report to the Director. Based on the suggestion given by the academic audit committee members, the faculty members are advised to take corrective measures to improve the Teaching Learning Process.

- The accounts of the college are audited every year by registered chartered account firm. The income expenditure statement and balance sheet of the college are prepared for each financial year and submitted to Income Tax department by the approved auditor.
- Latest institute external ISO audit was done on 6th april, 2016. No major Nonconformities were found. Our institute is recommended by external ISO auditors for the Certification valid for next 1 year. The report is describe in **annexure 6.4.2**
- External Academic Audit is conducted once in a year by Academic audit cell of GGSIPU. Last audit was done on 16th April, 2015 and the following were the main objections:-

Major Audit objection and compliance:-

- A few no. of faculty have participated in evaluation process. The Institute gives OD leave for evaluation process.
- Each faculty should have individual computer system.
- Cadre ratio should be improved.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

- As the institute is a self financing Institution, affiliated to GGSIP University, its income is mainly from tuition fee receipts, as fixed by State Government.
- The audited income and expenditure statement for the last four years are attached below:-

(INCOME AND EXPENDITURE STATEMENT ARE AS FOLLOWS)

S.N O	Particulars	2011-12	2012-13	2013-14	2014-15
INCOME					
1	By Tuition Fees	134,213,151.00	156,758,281.00	165,224,828.00	176,058,082.00
2	Student Activity Fee	1,910,000.00	2,062,000.00	2,145,000.00	2,229,000.00
3	Placement Receipts	947,800.00	986,000.00	1,124,000.00	1,101,000.00
4	Book Bank Fee	1,447,500.00	-	-	-
5	Sponsorship Receipts	343,825.00	358,500.00	201,160.00	125,500.00
6	Misc. Receipts	263,386.00	485,612.03	419,814.00	474,919.00
7	By Interest on SB.A/c	819,350.00	717,979.00	325,143.00	380,651.00
	By Interest on FD.A/c				490.00
	TOTAL=	139,945,012.00	161,368,372.03	169,439,945.00	180,369,642.00
EXPENDITURE					
1	To Salaries	77,238,585.55	91,328,083.51	103,319,699	116,212,336.00
2	To Administrative Expenses	19,121,445.00	23,320,769.00	27,101,106.76	28,941,478.30
3	To Repair & Maintenance	1,380,353.00	1,301,814.00	986,780.00	1,513,947.50
4	Misc. Expenses	37,869.56	66,085.00	53,972.00	85,881.94
5	To Affiliation Fees	1,612,589.00	950,339.00	526,354.00	1,369,369.00
6	Depreciation	7,989,449.58	9,998,330.00	8,815,645.00	8,128,188.00
7	To Excess of Income Over	32,564,720.31	34,402,951.52	28,636,388.24	24,118,441.26
	Total Expenditure=	139,945,012.00	161,368,372.03	169,439,945.00	180,369,642.00

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

Not Applicable.

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

a. Has the institution established an Internal Quality Assurance Cell (IQAC)? . If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

Yes, the Institute has IQAC.

The Quality policy of the institution is as following:

“The quality policy of Maharaja Surajmal Institute of technology is to achieve the highest standards in academics, research and industry-academia interactions.”

The institution voluntarily introduced IQAC which ensures a periodic review of all the procedures and achieving the set quality objectives by all the departments. Institution follows the ISO to establish and maintain a documented procedure for verifying the continuing suitability and effectiveness of the Quality Management System in compliance with ISO 9001:2008 standard as described below:-

- The ISO committee specifies formats for various documents, change control system and instructions for use.
- The ISO committee establishes and maintains a documented procedure to ensure that necessary records are prepared and maintained to provide the evidence of conformity to the specified requirements.
- The ISO committee establishes a process for handling and resolving the Non conforming services.
- The committee establishes a process for timely and effective corrective and preventive actions.
- The committee establishes implements and maintains a documented procedure for collecting, analyzing the data at various stages and uses the analysis results for continual improvement.
- The committee will monitor the sequential activities of the departments and college. Accordingly external/internal audit will be carried out.

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

IQAC has made following suggestions:-

- A letter of appreciation should be given to one faculty member of each department every year.
- A best faculty award should be given based upon academic and administrative criteria to one faculty of the institute every year.
- Teachers-students ratio or cadre ratio should be maintained according to ISO norms.
- Conducting industry focused training and placement classes.

Implemented suggestions:-

- Best faculty award is given to a deserving candidate.
- Letter of appreciation is given to one faculty member of each department. List is attached in **annexure 6.5.1**
- Recently institute established E-cell to offer more industry oriented courses through curriculum.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

No, IQAC does not have any external member on its committee.

d. How do students and alumni contribute to the effective functioning of the IQAC?

The important role of students and alumni for effective functioning of the IQAC is described as below:-

- The feedback from the students regarding the staff members is received once in a semester and such issues are discussed by HOD with the Director in meeting with focused agenda. Difficulties faced by the students are rectified as far as possible.
- Feedback regarding the Institution from passed out students is collected and on the basis of such feedback, the Director is able to interact with faculty and HODs to improve the Institutional performance. Also, the Director is able to convey the problems to management. The Management finally helps the director in taking proper decision & action to improve the overall performance of the institution.
- Course exit survey of each subject of each class is taken.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

- IQAC ensures a periodic review of all the procedures and achieving the set quality objectives of ISO processes by all the departments
- IQAC collaborated with ISO has Management Review committee consisting of Director, Deputy Director, ISO-MR (management representative), Deputy –MR, Department Representative and all HODs; they are authorized to modify the procedures and processes based on the requirement and demand.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation.

Yes; the academic and administrative activities are monitored regularly through internal and external ISO audits, as our Institution is ISO 9001:2008 certified institution and the institutional framework for Quality Assurance is fully operationalize.

- The ISO committee specifies formats for various documents, change control system and instructions for use.

- The ISO committee establishes and maintains a documented procedure to ensure that necessary records are prepared and maintained to provide evidence of conformity to the specified requirements.
- The ISO committee establishes a process for handling and resolving the Non conforming services.
- The ISO committee establishes a process for timely and effective corrective and preventive actions.
- The ISO committee establishes implements and maintains a documented procedure for collecting, analyzing the data at various stages and uses the analysis results for continual improvement.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If ‘yes’, give details enumerating its impact.

- IQAC maintains the quality through ISO 9001:2008 standard.
- All the standard format of documents are prepared by ISO committee and circulated among the faculty members of each department through departmental representative.
- Different queries/problems of faculty are sorted out by ISO member of department representative.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If ‘yes’, how are the outcomes used to improve the institutional activities?

The institution has a pre-defined mechanism for internal and external audit.

- External Audit is conducted once in a year by Academic audit cell of GGSIPU and ISO auditors. External review by ISO and Academic audit cell of GGSIPU and the suggestions given by them are taken into account and the non compliance report is rectified. The auditors give the feedback about the areas where there is scope for improvement.
- Our institute is recommended by external ISO auditors for the Certification valid for next 1 year.
- Academic performance of the institute is monitored in each semester, through:-
 - Students attendance
 - Internal Exam Marks
 - Semester Exam Marks and
 - Semester wise performance and comparison with other University affiliated colleges
- Academic audit results in evaluation, providing feedback to the departments in different areas like teaching-learning, results, individual up gradation and use of ICT. The outcomes are used to enhance the departmental activities.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

- IQAC looks after the academic and administrative functioning of the institution and is accepted for planning, execution and implementation of quality programs.
- Internal Quality Assurance System is aligned with the requirements of external quality assurance agencies in all aspects of institute operations with thrust on quality of teaching-learning process. Teaching Quality is monitored by the concerned HOD's/ Director. Further, corrective and preventive actions are implemented.
- ISO audit is conducted every year to monitor academic and administrative performance. Feedback from the stakeholders is collected and is used to ensure effective quality assurance. IQAC mechanisms are developed using the guidelines of various quality assurance agencies like NBA, NAAC and other professional bodies for quality education.
- The institute had already applied for NBA accreditation of our 2 UG Engineering programs. Definition, assessment and evaluation of the program outcomes are mandatory for the NBA accreditation. The students and the faculty are made aware of the learning outcomes for each course which is clearly indicated in the curriculum provided to the students.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

The Institute continuously reviews and monitors the teaching learning process by the following ways:-

- Subject allocation is done as per the faculty willingness, specializations, and experience. Faculty is requested to submit lesson plan, course file including personal notes and question bank, tutorial sheets etc verified by the HOD before the commencement of the semester.
- Teacher diary is maintained by each faculty which contains the students' attendance, performance in Sessional exam, assignments and syllabus completion status. This is reviewed monthly by the HODs.
- Theory weekly report and practical weekly report is filled by each faculty member in attendance register.
- Result analysis of each faculty member is reviewed in each semester for improving outcomes in internal & external exams.
- The feedback from the students, stake holders regarding the staff members is received once in a semester and such issues are discussed by HOD with Director in a meeting with focused agenda. Difficulties faced by the students are rectified as far as possible.

- Different issues and their rectifications regarding academic performance are discussed in departmental meeting with director/management.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The institution follows a systematic process to build successful stakeholder relationship. The information in areas of quality assurance policies, programs, offerings, services, support are communicated to internal and external stakeholders through:-

- College magazine published every year
- Minutes of meeting of Governing body
- Interaction during parent-teacher meeting
- Management meeting with faculty members
- Alumni Meeting
- Minutes of meeting of HODs meeting with Director
- Internal and external audit reports of ISO and academic audit of GGSIP university
- Through college website
- Through notice boards

CRITERIA VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

The institute has not conducted any official Green Audit by the external agency. Environment professionals have been orienting the students and staff regularly. The environmentally enthusiast team has been actively participated in survey process once in a year.

MSIT has an environmentalist society called PRAKRITI(Eco and Humanitarian Society of MSIT). The society with its ethos has been one of the most active and focused societies of MSIT since its inception on March 03, 2010. All the prakritians vow to deliver their best in saving the environment from its further degradation. Our ulterior aim is to benefit the society and nature around us in any small way we can. Ever since its bricks were laid, Prakriti has been striving hard to outdo itself with every passing year. The progress that this small society has made in 6 years is commendable. We at Prakriti follow a threefold objective:

- Identifying and responding to environmental issues
- Triggering environmental behavior amongst masses
- Offering volunteer works in various community services

We express the innate creativity, intelligence and generosity of the human spirit in our work.

The initiatives that we take are collaborative and joyously heart centered. We have recognised the need for personal and cultural transformation in order to create the social, economic and environmental conditions for sustainability. Some of the initiatives taken by Prakriti include:

- Yearly Blood Donation Campaign, which was organized on 6th November 2015.
- Winter Collection Drive (old clothes, utensils, stationary, blankets, etc)
- Interaction with slum children in Vasant Kunj in association with Seva Sandwich by Lakshyam. Prakriti in an association with “Seva Bharti” organized a campaign as an opportunity to interact & engage to the stories of our less privileged friends while serving them with sandwiches prepared by its members and volunteers at the centre itself.
- Pinkathon for breast cancer awareness drive was held on 30th October-2015.
- 'Swachh Bharat Abhyan' has given Prakriti an opportunity to aware students about the most pressing issue at hand.

- Abhyaas: Wherein we collect waste paper all forms of newspaper, magazines, shredded paper to recycle them.
- Prakriti is also responsible for plantation of trees and plants in the Institute
- Cleanliness drives to make people realize that if we can, you also can!!

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

The Institute is eco conscious and takes quite a number of initiatives to maintain an Eco –friendly campus. The ensuing points bring forth the enterprising ideas of the institute to preserve and conserve the environment.

*** Energy conservation**

- For this the institute has gradually moved on from incandescent light bulbs to tube lights or LED lights.
- The institute also replaced most of the CRT monitors to TFT monitors or LCD monitors thus conserving energy to the extent required.
- Institute also promotes procurement and installation of efficient electrical systems to save electricity.
- The UPS batteries are maintained in good condition which reduces charging current of batteries.
- Periodically equipment checking and monitoring is also carried out to avoid excess use of electricity.
- The institute propagates the importance of energy conservation by intimating staff and students to switch off the fans and lights (in hostel and institute) when not in use.

*** Use of renewable energy:**

- Solar heaters are installed in hostels to provide hot water to the students in the hostels. Therefore it minimises the usage of electrical power.
- The use of transparent glass windows provides natural light in all classrooms.
- The proposal for setting up Solar based LED- lights in the campus is under progress.

* **Water harvesting**

- To sustain the ground water availability the Institution has adopted rain water harvesting system.
- The open terrace of 1302 sq. meter is fitted with collection pipes which collect rainwater and sent to the ground through designed drains.

* **Check dam Construction- NA**

* **Efforts for Carbon neutrality**

- The institute has made arrangements for the parking at a separate ground beside the campus boundary. This helps in keeping the campus clean as much as possible.
- The dead leaves and the waste papers are not allowed to be put on fire. The leaves are buried in the soil itself.
- The waste is disposed off in the dumping yards of Nagar Nigam.
- Majority of the rooms are non AC baring a few (Computer Labs, and Seminar Halls). Hence, the carbon byproduct produced by the air conditioners is very minimal.
- Routine inspection of college vehicles and generator set and other equipments ensures lowest possible emission and pollution free environment thereby neutralising carbon effect.
- The tree cover of the campus helps in neutralizing the carbon byproducts that are generated in the campus. The age old trees of neem, sisam, eucalyptus etc. are making the environment in the campus healthy and fresh.
- In the rest of the campus too, there is no other source which generates carbon byproducts.

* **Plantation**

- The majority of open area is covered with trees, bushes and lawns.
- To keep the campus green, the gardens are regularly maintained by the maintenance staff.
- Trees planting programmes are conducted frequently. Recently 25 Palm trees are planted to enhance the beauty of the campus and maintain healthy and balanced environment.

* **Hazardous waste management**

- There is no hazardous waste material produced in the institute except in laboratories like chemistry. Adequate exhaust provisions are made in these laboratories to drive out acid fumes.

* **E- waste management**

- Institute has a scheme by which Electronic and computer accessories which are declared “Obsolete” are exchanged with new equipments under old buy back scheme.
- Institute has also donated old computers to a school in Shyamli.

* **Any Other**

- Paper waste is regularly sold to outside agency. The answer sheets are shredded and sold to licensed purchaser.
- Chemical fire extinguishers are charged periodically from outside licensed agency.
- The institute has taken initiatives to make the system paperless. E-documentation policy is promoted in administrative office and other departments.
- Group E-mail services.
- The papers are reused for printing.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

Over a period of years, the institute has introduced innovative measures which have created a positive impact on the overall functioning of the institute. They are:

a) Teaching-Learning Process:

- ❖ Enough ICT enabled classrooms in all the departments.
- ❖ Web based assignments which kindle the creative thinking of the students.

b) Remedial Classes for Subjects:

- ❖ Extra classes have been organized after institute hours for those subjects where non performing students and slow

learners find maximum difficulties. This helps the students to interact with the faculty personally and clear their doubts in different courses of study.

- ❖ Moreover, the students are encouraged to interact with peer students which foster the culture of team work.

c) Course Materials for Subjects:

- ❖ All teaching faculty prepare the course materials for the courses that they are teaching before the commencement of the semester. The same is uploaded on the website for slow learners/non performing students.
- ❖ Assignments with keys are provided to the students to make them knowledgeable and score good marks in the examinations. The content of the same is also uploaded in the institute moodle website which the students can access anywhere inside as well as outside the campus.
- ❖ E-learning, NPTEL video lectures and content management system.

d) Biometric Attendance system:

Introduced in 2010, it helps to maintain attendance of the staff which in turn makes the office paperless.

e) Personality Development Programs(PDP):

These programmes help the student and faculty to develop their inter personal communication skills, gestures, body language and the ability to converse with others.

f) Faculty Development Programmes(FDP):

The staff members are developing their knowledge by regularly attending these types of programmes. Through these programs they teach current trends to the students and motivate them to contribute in social development issues.

g) Up- gradation of Laboratories:

- ❖ Create additional technical facilities in the department's e.g. English Language lab, Microprocessor Lab, Microwave Engineering Lab in ECE dept. etc.

h) Motivation of students:

- ❖ Encouragement and support to students for appearing and doing well in competitive exams like GATE, GRE, GMAT, CAT etc. for higher studies.
- ❖ Financial rewards for University rank holders and class toppers in the institute.
- ❖ Recognition and awards to high achievers in extracurricular activities, leading to high percentage of participation of students.

i) Motivation to Faculties:

- ❖ Financial supports to those who go for publish and present the research articles in national/ international journals and conferences.
- ❖ Encouraging faculty for undertaking research work.
- ❖ Recognition and financial rewards for the dedicated, hardworking faculty in all fields, yearly in the form of Best Faculty Award.

j) E-Cell:

Entrepreneurship Cell at MSIT manifests the latent entrepreneurial spirit of young students. The Cell provides a platform to students who want to set up their own business and gives opportunities to budding entrepreneurs to connect with successful business people and see their ideas turn into reality. The E-Cell hosts various workshops, speaker sessions, innovative games, competitions for the aspiring entrepreneurs and supports them by providing necessary resources, mentoring, consultancy, and networking. Activities held in the last two academic years are listed below:

- Academic Year 2015-16

S. No	Date	Event	Speaker	Reference
1	16th Oct 2015	Bit 'n' Bytes	Mr. Gaurav Wadhwa	GAmmoZ.com
2	21 Aug. 2015	Startup talk	Ms. Garima Juneja Mr. Garav Kumar	ViralCurry.com

- Academic Year 2014-15

S.No	Date	Event	Speaker	Reference
1	5 Dec. 2014	Jobs Vs Entrepreneurship	Ms. Bhawana Khattar	Rural Wheels Startup
2	26 Nov. 2014	Start your Eureka Journey	Ms. Bhawana Khattar	Rural Wheels Startup
3	24 Nov 2014	The basic of Entrepreneurship	Mr. Abinav	MSIT E-Cell

k) Others:

- ❖ Healthy student teacher ratio(STR)
- ❖ Air-conditioned seminar halls, fully equipped with state-of-the-art audio-visual facilities.
- ❖ CCTV cameras are installed for continuous monitoring.
- ❖ High speed internet facility for students and staff.
- ❖ Well furnished class rooms.
- ❖ Library is equipped well with e-journals. These journals are made available on intranet on campus for easy access.

7.3 Best Practices

7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the College.

BEST PRACTICE-I:

1. Title of the Practice

Effective Teaching – Learning System

2. Objectives of the Practice

The objectives/intended outcomes of this best practice are:

- To ensure effective delivery of contents across all the courses.
- To improve student's learning experiences and outcomes.
- To provide staff with information in regard to professional development needs.

Underlying principles or concepts of this practice:

- To bring active participation of students in teaching-learning process.
- Strive for simplicity and clarity of teaching learning, and establish clear expectations for analytical performance and Quality assurance;
- Provide a consistent framework for future enhancement of Teaching – Learning methods.

3. The Context

Quality teaching is defined in terms of effective pedagogical techniques to produce learning outcomes for students. It involves several dimensions, including, a variety of learning contexts (including guided independent study, project-based learning, collaborative learning, experimentation, etc.), soliciting and using feedback, and effective assessment of learning outcomes. Institutions need to ensure that the education they offer meets the expectations of students.

To meet the challenge of promoting innovativeness of teachers the best way was found to be insisting on documentation of individual teaching plans/lessons which in turn help to identify the most creative methodologies /approaches that can be shared and this can work as frame of reference for teachers who are not spontaneously creative.

The individual performance of each faculty member is a crucial factor in quality teaching. The unit plan designed by the faculty becomes the frame of reference to make the teacher accountable for the status of syllabus completion.

In the context of teachers moving towards greener pastures / IT Sectors, the need for adopting standardized procedures was deeply felt as transition becomes smooth when there is a switch of teachers as the former teacher's records becomes a ready reference for the teachers.

Through constant checks of teacher's documents which include their unit planners, academic records, teaching dairies, etc., the institution finds scope to identify areas of deficiencies and also take up appropriate FDP programs for the betterment of their professional effectiveness and also for the quality enhancement of the academic program.

4. The Practice

The process and procedures which constitute the implementation of the practice are as follows:

- The institution has a meticulously organised and clearly planned teaching, learning and evaluation schedule, well integrated into the total institutional scheme. At the end of each academic year, the Director through consultative process with the HoD, plan the academic calendar for the forth-coming academic year.
- The course outlines and the course schedules are prescribed by the University well ahead of the course commencement. Each faculty of the department has individually drafted notes, which indicate that how

each unit is taught by given time frame along with a mention of methodologies/references used and modes of evaluation practiced.

- Self – appraisals, submitted by the individual teachers gives a clear indication of the teachers’ contributions in various categories - academic, administrative and extension activities. The HOD of each department and the Director ensures the effectiveness of the process by weekly and monthly check of the attendance of students. The effectiveness is further ensured through cross verification by the head of the institution.
- Monthly attendance of the students is uploaded on the institute website, so that students can make up their minimum required percentage at the end of every semester. On the basis of this students are detained from their classes (at the end of the semester) if they are unable to fulfill the requirement.
- Each department submits an annual report on the activities comprising academic activities, research and extension activities. Innovations in teaching/learning, publications, staff and student achievements, extra and co- curricular activities are also highlighted in the report. At the Director’s office, the annual reports are consolidated, which further goes to the Governing Body.
- To ensure quality sustenance and enhancement the institute periodically conducts the performance audit of the departments (by Internal Quality Assurance Cell- under ISO) which includes Review of Teaching – learning methodologies, Result analysis, Research output, Faculty Development Programs attended/conducted and Extension activities, Co-curricular and extra-curricular activities conducted during the year.
- Departmental meetings are conducted once a month and whenever needed. The minutes are documented and signed by the HoD and further circulated to faculty concerned.
- Result analysis is submitted by the individual faculty to the respective HOD’s. The result analysis of each department is submitted to the Director after each semester.
- Syllabus completion statements are also monthly submitted by the individual teachers in order to ensure timely completion of the syllabus.
- We follow 360 degree assessment, feedback is taken from the students twice in every semester and the same is analysed to fill up any gap area and facilitate in improvising the performance of the faculty.
- Remedial classes are scheduled for non performing students after institute hours. Such students are mapped and listed after 1st semester examination results.
- Activities, Tutorials, Quizzes and Tests are introduced wherever necessary making learning a joyful experience for the students.

- Fair evaluation of answer scripts (of sessional exams) is done and shown to students in class to assess their mistakes. Further correct answers are discussed with the students.

Progress in implementing the teaching and learning framework across each level of the institute is monitored and the reports are analysed by the heads of departments and Director. Appropriate platform exists for sharing experience and initiatives across the institute.

5. Evidence of Success

The evidence of success is also seen in achieving the targets/benchmarks/distinctions mentioned below:

- The initiatives and measures taken by the institute help students to upgrade their technical and non-technical skills improving the employability of students/ promote to pursue for higher studies.
- Better placement records.
- Word of mouth publicity through successful Alumni.
- Achievements' of University ranks by good number of students
- High pass percentage and less cases of dropouts are reported.
- Better performance in national level competitive exams like GATE, GRE, CAT etc.
- The Institute has emerged as a trusted name for discipline and value based /holistic education.

6. Problems Encountered and Resources Required

- Being self – financed college financial constraints pose a major challenge, student's fees prescribed by the University is the only source available and no extra funding is procurable, for implementation/adoption of high quality standards, process and procedures.
- The University curriculum is fixed for each semester by the university and need to update regularly as per industry needs. Some of the students are not fulfilling the eligibility criteria of industry, required to develop the skill, so that they can overcome the deficiency and get placed in other industry.
- Moreover, due to availability of confined time during a semester not much industrial visits are employed for students.
- Mostly the students are day scholars therefore extended teaching hours cannot be implemented.
- Some of the students have very weak communication skills and require rigorous PDP training to improve the soft skills.

7. Notes (Optional)

N.A.

BEST PRACTICE- II

1. Title of the Practice: Quality Improvement Programs (QIP's) for faculty in MSIT.

2. Goal

Aims and Objectives:

The Institute organizes Faculty Development Programmes(FDP's), seminars, workshops etc. for promoting teachers and staff members quality through a three pronged strategy that aims at personal, profession and holistic development of teachers thereby facilitating their role as educators and mentors and responsible for grooming the future citizens with right knowledge, attitude and skills.

The institution conducts the FDP's/seminars/workshops/Guest Lectures with the following:

Objectives:

- To update their knowledge
- To inculcate professional ethics
- To promote technical expertise
- To orient them towards quality research.
- To enhance their effectiveness in content designing and delivery
- To sensitize them towards social responsibilities.

3. The Context

A number of factors have brought quality teaching to the forefront of higher education policies. Almost every education system has experienced substantial growth of student numbers in recent decades and the student profile has become more diverse. At the same time, higher education faces greater challenges and expectations from students, parents, employers to account for their performance and demonstrate their teaching quality.

Experience showed that fostering quality teaching is a multi-level Endeavour. Support for quality teaching takes place at three inter-dependent levels:

- **At the institution-wide level:** includes the right policy making.
- **Program level:** comprising actions to measure and enhance the design, content and delivery of the programs.
- **Individual level:** including initiatives that help teachers achieve their mission, encouraging them to innovate and to support improvements to student learning and adopt a learner oriented focus.

These three levels are essential and inter-dependent.

However, supporting quality teaching at the program level is key to ensure improvement in quality teaching at the discipline level and across the institution.

Support for quality teaching can be manifested through a wide range of activities that are likely to improve the quality of the teaching process, of the program content, as well as the learning conditions of students.

Institutions engage in fostering quality teaching essentially for the following reasons:

- To respond to the growing demand for meaningful and relevant teaching. Students as well as employers want to ensure that their education will lead to gainful employment and will equip them with the skills needed to evolve professionally over a lifetime.
- To demonstrate that they are reliable providers of good quality higher education, while operating in a complex setting, with multiple stakeholders, each with their own expectations.

Education at present is undergoing tremendous change that demands from the faculty a need to update and keep abreast of the latest developments.

The institutions are therefore keen to provide professional development to faculty. But the reality is that professional development for teachers is often disconnected from the educational objectives of the programs – even though the support provided may be in response to specific requests received from faculty.

Thus a well-designed professional development program needs to be an outcome of a collaborative reflection on the quality of teaching and learning that is aligned with university values, identity and faculty expectations.

4. The Practice

Quality Improvement Programmes are conducted quite frequently in MSIT. These includes FDP's/seminars/workshops, interactive sessions and motivational lectures from eminent persons on topics like Effective teaching processes, Qualities of good teacher, Interpersonal Effectiveness, Art of Living ,etc. which acquaint the teachers with updated Teaching –Learning Practices and also the need for cultivating right attitude apart from instilling a research aptitude for promoting personal and professional effectiveness.

To sustain high teacher quality the teachers are regularly sent to refresher courses, international seminars, conference, workshops to track the latest developments in their domain areas.

Moreover, the institute provides faculties with special CL's and financial support to attend the FDP's/ seminars/workshops/Guest Lectures outside the institute, thus encouraging them to enrich their research profiles through paper presentation and also enhance their knowledge.

The institute has also provided a well-equipped library with both national and international journals, so that both students and faculties can enhance their research aptitude.

The institute also conducts Guest lectures, National and International conferences and workshops and ICT based FDP's to gather the best of academic and industry perspectives on current topics. Faculties are also

benefits from regular workshops/guest lectures / conferences etc. Naming a few:

- ❖ FDP on 'Research Challenges & Emerging trends in Electrical Engg.' Organized by EEE department from Feb-25-2015.
- ❖ FDP on "Virtual Reality" organized by ECE department on Feb-28-2015.
- ❖ FDP on "Digital Design Techniques" organized by ECE department on Feb-28-2015.
- ❖ Workshop on "Basic Internet and Cyber Security" Organized by IT department on Nov-5-2015.
- ❖ FDP on "Emerging Trends in Information Technology" Organized by IT& CSE department from Feb-29 to March-4-2016.
- ❖ FDP on "Artificial Neural Networks" Organized by ECE and EEE department from April 25 to April 29, 2016
- ❖ A lecture on "Art of Living" Organized by SMES on 5 March 2016.

National and International academicians and distinguished research scholars are also invited to enrich the staff on multidimensional roles that they need to play as teachers and role models.

5. Evidence of Success

The evidence of success is also seen in achieving the targets/benchmarks/distinctions mentioned below:

- Many Faculty members have completed and awarded Ph.D degree during their stay in the Institute and some more are in the final stage of submission of their Ph.D Thesis.
- This practice helps in increasing the number of research publications nationally and internationally by the faculty members.
- "Satyam-MSIT Journal of Research", the biannual journal is published since 2012, encourages and motivates faculty and students to pursue research work and publish their papers.
- Students are highly motivated for doing innovative projects and won prizes in technical competitions and published their research papers in conferences and workshops.
- Students are also inclined to pursue higher education to quench their thirst to acquire knowledge of modern technology.
- Enhanced reputation among academicians networked through regular conduct of Seminars/guest lectures.
- Ranks among top three Institutes of GGSIP University, thus enroll good number of students every year.

6. Problems Encountered and Resources Required

- Being a self-financed college the financial constraints in implementation/adoption of high quality Teaching– Learning and Evaluation processes & resources pose a major challenge. The institute

management nonetheless has given the faculty enrichment its due priority, releasing the critical significance of Quality Improvement Programs in achieving its vision. However, in spite of constraints, departments have carried out FDPs etc. on regular basis.

- Apart from financial challenges, availability of adequate time, human resources and infrastructural facilities are the other limitations. Improvement of teacher quality has psychological dimensions like individual teacher's self motivation and openness to the development program. The right attitude/response to the QIPs not only depends on individual teachers but also Director, heads of programs and other academic leaders who are drivers of change.
- The Management apart from spending substantial amounts on QIPs from its own funds, also arranges for quality FDPs drawing upon its goodwill with eminent scholars, Industrialists and university Professors who are on its Statutory bodies and otherwise.

7. Notes (Optional)

N.A.

Contact Details:

Name of the Director: Prof. K.P. Choudhary

Name of the Institution: MSIT

City: New Delhi

Pin Code: 110058

Accredited Status: Applied For

Work Phone: 011-25528117, 011-25552667

Fax:

Extn No.:

E-mail: director@msit.in,

Mobile:

Website: www.msit.in

Evaluative Report of CSE Department

1. Name of the department : **Computer Science Engineering**
2. Year of Establishment : **2001**
3. Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

S. No.	Name of programme	Establishment Year	Intake
1.	Degree: Bachelor of Technology(B.Tech) Discipline: Computer Science Engineering (CSE)	2001	180

4. Names of Interdisciplinary courses and the departments/units involved

S. No.	Course name	Course Code	Semester	Department involved
1	Applied Mathematics-III	ETMA 201	3 rd	Applied Sciences
2	Circuits & Systems	ETEE 207	3 rd	EEE
3	Circuits & Systems Lab	ETEE 257	3 rd	EEE
4	Applied Mathematics-IV	ETMA 202	4 th	Applied Sciences
5	Communication Systems	ETEC 208	4 th	ECE
6	Communication Systems Lab.	ETEC 256	4 th	ECE
7	Digital Communication	ETEC 303	5 th	ECE
8	Communication Skills for Professionals	ETHS301	5 th	Applied Sciences
9	Digital Communication	ETEC 357	5 th	ECE
10	Communication Skills for Professionals Lab	ETHS351	5 th	Applied Sciences

5. Annual/ semester/choice based credit system (Programme wise) :
Semester System
6. Participation of the department in the courses offered by other departments

S. No.	Course name	Course Code	Semester	Department involved
1	Data Structure	ETCS 209	3 rd	ECE, EEE
2	Computer Organization & Architecture	ETCS 204	4 th	ECE
3	Industrial Management	ETMS 311	4 th	EEE
4	Wireless Communication	ETEC-405	7 th	IT

7. Courses in collaboration with other universities, industries, foreign institutions, etc. : **NIL**
8. Details of courses/programmes discontinued (if any) with reasons : **NIL**
9. Number of Teaching posts

	Sanctioned	Filled
Professors	4	01
Associate Professors	8	01
Asst. Professors	24	26

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

S. No	Name	Qualification	Designation	Specialization	No. of Year of Experience	No. of Ph.D students guided for the last 4 years
1	Dr. Poonam Bansal	Ph.D.	Dy. Director	Speech and Image analysis	24	5 (Under Process)
2	Ms. Kavita Sheoran	M.Tech, PhD pursuing	Reader	Software Engineering	12yrs	Nil

3	Dr. Koyel Datta Gupta	Ph.D.	Associate Professor	Wireless Networks	11yrs	Nil
4	Ms. Geetika Dhand	M.Tech, PhD pursuing	Reader	Sensor Networks	12yrs	Nil
5	Ms. Amita Yadav	M.Tech, PhD pursuing	Reader	Sensor Networks	15 yrs.	Nil
6	Ms. Vimal Gaur	M.tech	Reader	Software Engineering	12.5 yrs	Nil
7	Ms. Savita Ahlawat	M.Tech, PhD pursuing	Reader	Image processing	12+yrs	Nil
8	Ms. Shalini Jain	M.Tech, PhD pursuing	Asst. Prof	Wireless Networks	13+yrs	Nil
9	Ms. Sapna Malik	M.Tech, PhD pursuing	Asst. Prof	Mobile Security	11.5+yrs	Nil
10	Ms. Vinita Rohilla	M.Tech, PhD pursuing	Asst. Prof.	Data Mining	10 Yrs	Nil
11	Ms. Shaily Malik	M.Tech	Asst. Prof.	Software Engineering	10 Yrs	Nil
12	Ms. Shalu	M.Tech, PhD pursuing	Asst. Prof.	Sensor Networks	13	Nil
13	Ms. Sonia Rathee	M.Tech, PhD pursuing	Asst. Prof	Spatial temporal	8+ yrs	Nil
14	Ms. Pooja Kherwa	M.Tech	Asst. Prof	Machine Learning	12+ yrs	Nil
15	Mr. Navdeep Bohra	M.Tech	Asst. Prof	Big Data	9+ Yrs	Nil
16	Mr. Sushil Kumar	M.Tech	Asst. Prof	Computer Graphics	9 Yrs	Nil
17	Ms. Priyanka Nandal	M.Tech, PhD pursuing	Asst. Prof	Numerical Simulation	12 Yrs	Nil
18	Ms. Sakshi Hooda	M.Tech.	Asst. Prof	Machine Learning	9 Yrs	Nil
19	Ms. Rinky Diwedi	PH.D.(Submitted)	Asst. Prof	Agile Methodology	11+yrs	Nil
20	Dr. Naresh Kumar	PH.D.	Asst. Prof	Web Crawler	6+yrs	Nil
21	Mr. Naveen Dahiya	M.Tech, PhD pursuing	Asst. Prof.	Data Warehousing	11	Nil
22	Ms. Nishtha Jatana	M.Tech, PhD pursuing	Asst. Prof.	Software Testing	6.5	Nil
23	Ms. Bharti Sharma	M.Tech, PhD pursuing	Asst. Prof.	Data Mining	7	Nil
24	Mr. Adeel Hashmi	M.Tech., pursuing Ph.D.	Asst. Prof.	Big Data	5.5	Nil
25	Ms. Divya Jatyan	M.Tech	Asst. Prof.	Computer Networks	4.5	Nil
26	Ms. Neeti Sangwan	M. Tech	Asst. Prof.	Data Mining & Warehousing	3.5	Nil
27	Ms. Poonam Dhankhar	M.Tech	Asst. Prof.	Software Engineering	1.5	Nil

28	Ms. Gunjan	M.Tech	Asst. Prof.	Soft Computing	0	Nil
----	------------	--------	-------------	----------------	---	-----

11. List of senior visiting faculty : **NIL**
12. Percentage of lectures delivered and practical classes handled(Programme wise) by temporary faculty: **NIL**
13. Student -Teacher Ratio (programme wise):

S.No	Year	Student Teacher Ratio
1	2015-16	19.95
2	2014-15	19.43
3	2013-14	19.43
4	2012-13	19.43

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

	Filled
Technical Staff	06

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

S. No	Name	Qualification
1	Dr. Poonam Bansal (Professor & Dy. Dir.)	Ph.D.
2	Ms. Kavita Sheoran (HOD)	M.Tech, Ph.D pursuing
3	Dr. Koyel Datta Gupta (Asso. Prof.)	Ph.D.
4	Ms. Geetika Dhand (Reader)	M.Tech, Ph.D pursuing
5	Ms. Amita Yadav (Reader)	M.Tech, Ph.D pursuing
6	Ms. Vimal Gaur (Reader)	M.Tech
7	Ms. Savita Ahlawat (Reader)	M.Tech, Ph.D pursuing
8	Ms. Shalini Jain (Asst. Prof.)	M.Tech, Ph.D pursuing
9	Ms. Sapna Malik (Asst. Prof.)	M.Tech, Ph.D pursuing
10	Ms. Vinita Rohilla (Asst. Prof.)	M.Tech, Ph.D pursuing
11	Ms. Shaily Malik (Asst. Prof.)	M.Tech
12	Ms. Shalu (Asst. Prof.)	M.Tech, Ph.D pursuing
13	Ms. Sonia Rathee (Asst. Prof.)	M.Tech, Ph.D pursuing
14	Ms. Pooja Kherwa (Asst. Prof.)	M.Tech
15	Mr. Navdeep Bohra (Asst. Prof.)	M.Tech
16	Mr. Sushil Kumar (Asst. Prof.)	M.Tech

17	Ms. Priyanka Nandal (Asst. Prof.)	M.Tech, Ph.D pursuing
18	Ms. Sakshi Hooda (Asst. Prof.)	M.Tech.
19	Ms. Rinky Diwedi (Asst. Prof.)	Ph.D.(Submitted)
20	Dr. Naresh Kumar (Asst. Prof.)	Ph.D.
21	Mr. Sandeep Jaglan	M.Tech, Ph.D pursuing
22	Mr. Naveen Dahiya(Asst. Prof.)	M.Tech, Ph.D(Submitted)
23	Ms. Nishtha Jatana(Asst. Prof.)	M.Tech, Ph.D pursuing
24	Ms. Bharti Sharma(Asst. Prof.)	M.Tech, Ph.D pursuing
25	Mr. Adeel Hashmi(Asst. Prof.)	M.Tech., pursuing Ph.D.
26	Ms. Divya Jatyan(Asst. Prof.)	M.Tech
27	Ms. Neeti Sangwan(Asst. Prof.)	M. Tech
28	Ms. Poonam Dhankhar(Asst. Prof.)	M.Tech
29	Ms. Gunjan(Asst. Prof.)	M.Tech

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : **NIL**
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : **NIL**
18. Research Centre /facility recognized by the University
- **On-line journal facility is available like – IEEE, Elsevier etc.**
19. Publications: **Refer Annexure 1.CSE**
- * a) Publication per faculty :
 - * Number of papers published in peer reviewed journals (national / international) by faculty and students
 - * Number of publications listed in international database
 - * Monographs
 - * Chapter in books(provide details)
 - * Books edited
 - * Books with ISBN/ISSN numbers with details of publishers
 - * Citation Index
 - * SNIP
 - * SJR
 - * Impact factor
 - * h-index
20. Areas of consultancy and income generated: **NIL**
21. Faculty as members in

- a) National committees b) International Committees c) Editorial Boards.

S. No	Name	Member for national committees	Reviewer for national committees	Member for international committees	Reviewer for international committees	Member of Editorial Boards	Reviewer of Editorial Boards
1	Dr. Poonam Bansal (Professor & Dy. Director)	1. Computer Society of India (CSI) 2. Indian Society for Technical Education (ISTE) 3. Acoustic society of India (ASI)	-	1. Institute of Electrical and Electronics Engineers (IEEE) 2. International Association of Computer Science and Informational Technology, (IACSIT)	-	-	1. International Journal of Adaptive Control and Signal Processing, Wiley 2. International Journal of Engineering Technology 3. Journal of Information and Computing Science
2	Ms. Kavita Sheoran (HOD)	ISTE	-	-	-	-	-
3	Dr. Koyel Datta Gupta (Asso. Prof.)	Nil	--	IEEE	-	-	-
4	Ms. Geetika Dhand (Reader)	ISTE	-	-	-	-	-
5	Ms. Amita Yadav (Reader)	ISTE	-	-1	-	-	-
6	Ms. Savita Ahlawat (Reader)	ISTE	-	IEEE	-	-	-
7	Ms. Sapna Malik	ISTE	-	-	-	-	-

	(Asst. Prof.)						
8	Ms. Vinita Rohilla (Asst. Prof.)	ISTE	-	-	-	-	-
9	Ms. Pooja Kherwa (Asst. Prof.)	ISTE	-	-	-	-	-
10	Ms. Rinky Diwedi (Asst. Prof.)	ISTE	-	-	-	-	-
11	Dr. Naresh Kumar (Asst. Prof.)	ISTE	-	-	-	-	-
12	Mr. Adeel Hashmi	ISTE	-	-	-	-	-

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme :

Batch	% of students
2015 pass-out	100 %
2014 pass-out	100%
2013 pass-out	100 %
2012 pass-out	100%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

Batch	% of students
2014 pass-out	0%
2015 pass-out	0%

23. Awards / Recognitions received by faculty and students

* **Students**

S. No.	Course	Year	Batch	Position	Enrolment No.	Name	% of Marks (CPI %)
1	Computer Science & Engineering	4 th year	2008-12	1 st	1631502708	Mayank Jain	86.52
				2 nd	1341502708	Ashima Jain	85.80
				3 rd	0901502708	Shweta Gupta	85.28
		3 rd year	2009-13	1 st	14615002709	Prerna Juneja	89.17
				2 nd	11315002709	Deepak Kumar Harjai	87.10
				3 rd	05215002709	Deepa Pahuja	86.84
		2 nd year	2010-14	1 st	08315002710	Amita Pradhan	85.77
				2 nd	10815002710	Vandana Negi	85.23
				3 rd	08515002710	Ankita Goyal	85.18
		1 st year	2011-15	1 st	07115002711	Swati Kadian	88.11
2 nd	04115002711			Anuyog Chauhan	87.35		
3 rd	05015002711			Vidit Bhargava	86.02		
2	Computer Science & Engineering (2 nd Shift)	3 rd year	2009-13	1 st	01496302709	Ishita Kathuria	87.97
				2 nd	01796302709	Sahil Puri	85.14
				3 rd	04796302709	Mehak Ahuja	84.59
		2 nd year	2010-11	1 st	08596302710	Akanksha Gupta	88.20
				2 nd	08496302710	Mayank Mittal	84.09
				3 rd	08896302710	Shruti Bajaj	83.93
		1 st year	2011-13	1 st	06396302711	Aaditya Bagga	86.22
				2 nd	08296302711	Avik Agarwal	85.30
				3 rd	07796302711	Bhavya Pasricha	84.94
3	Computer Science & Engineering (2 nd Shift)		2010-14	gold medal	08596302710	Akansha Gupta	88.20

* **Faculty**

S. No	Name	Event	Year	Award
1	Dr. Poonam Bansal	Region10 that includes the entire Asia-Pacific Region	Aug-2011-2012	IEEE Outstanding Branch Counselor and Advisor Award
2	Dr. Poonam Bansal	Region10 that includes the entire Asia-Pacific Region	2014	IEEE Outstanding Branch Counselor and Advisor Award
3	Ms. Vimal Gaur	Region10 that includes the entire	2012	IEEE Outstanding Branch

		Asia-Pacific Region		Counselor and Advisor Award
4	Ms. Sapna Dhankar	International Conference on computing Sciences held at LPU , Punjab	8- 9th April 2016.	Best Paper Award
5	Ms. Nishtha Jatana	4th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO)	2015	Best Paper Award
6	Dr. Koyel Datta Gupta	Outstanding contribution and continued dedication towards the multi-dimensional growth of the Institute	2014-2015	Certificate in recognition
7	Ms. Kavita Sheoran	Outstanding contribution and continued dedication towards the multi-dimensional growth of the Institute	2013-2014	Certificate in recognition
8	Ms. Nishtha Jatana	Outstanding contribution and continued dedication towards the multi-dimensional growth of the Institute	2013-2014	Certificate in recognition
9	Mr. Adeel Hashmi	Outstanding contribution and continued dedication towards the multi-dimensional growth of the Institute	2014-2015	Certificate in recognition

24. List of eminent academicians and scientists/visitors to the department

S. No	Name of the Speaker	Designation and Organization	Purpose of visit	Date
1	Prof. O. S. Panwar	Chief Scientist at CSIR	Expert Lecture	27 th Feb,2016
2	Prof. Shantanu Choudhary	Schlumberger chair Professor in EE, Dean, UGS, IIT	Expert Lecture	29 th Feb,2016
3	Prof. K.L. Chopra	Retd. IIT Delhi, SS Bhatnagar prize, Bhabha Award, Aryabhata etc.	Expert Lecture	29 th Feb,2016
4	Prof. Dhurinder	Professor, NSIT	Expert Lecture	1 st Mar, 2016
5	Prof. M N Hooda	Director, BVICAM	Expert Lecture	1 st Mar, 2016
6	Prof S. K. Garg	Pro-VC, Delhi Technological University	Expert Lecture	2 nd Mar, 2016
7	Prof. Kehar Singh	Retd. IIT Delhi, Shanti swaroop Bhatnagar Award	Expert Lecture	2 nd Mar, 2016
8	Prof. Arvinder Kaur	Professor, GGSIPU	Expert Lecture	2 nd Mar, 2016
9	Prof. V. P. Vishwarkarma	Professor, GGSIPU	Expert Lecture	3 rd Mar, 2016
10	Ms. Upma	IAS/Sikkim/1988	Expert Lecture	3 rd Mar, 2016

	Srivastava			
11	Prof. Parimala Prakash	JNU	Expert Lecture	4 th Mar, 2016
12	Prof. Daya Gupta	Delhi Technological University	Expert Lecture	4 th Mar, 2016
13	Prof. S.D. Joshi	IIT, Delhi	Expert Lecture	1 st Mar, 2016
14	Dr. Vishal Bhatnagar	Associate professor (AIAC T & R)	Project Viva	Dec'12, May'13, Dec'13, Dec'14, May'15, Dec'15,
15	Dr. Manjeet Singh	Professor (YMCAUST)	Project Viva	May'14

25. Seminars/ Conferences/Workshops organized & the source of funding

Year	Event Description	Date	Target Audience	Resource Persons	Funded By	Usage and Citations etc
2012	Seminar on Internship and research opportunities.	20 th August ,2012	1st and 2nd year students	Mr. Akash Dang and Mr. Anubhav Tyagi ,Vice Chairperson, IEEE MSIT.	IEEE	Internship and research opportunities
	Seminar on “Master in Engineering Management and planning and preparing CAT 2012”	5 th September 2012	3 rd and 4 th year students	IMS faculty	Free	Master in Engineering Management and planning and preparing CAT 2012
	Seminar on “ARM7 CORTEX 3”	10 th September 2012	Faculty and students	Faculty MSIT	MSIT	Architecture and computational power of ARM microcontrollers
	Workshop on “Android applications and development”	11 th & 12 th September 2012	Faculty	Mr. Ravi Upadhayay	MSIT	Android
	On IEEE MSIT celebrated IEEE DAY by Technical Project Exhibition	6 th Oct. 2012	Students		IEEE	Technical Project Exhibition
	Workshops on “Robotics and Web Development	19 th and 20 th Oct. 2012	Students	IEEE member	IEEE	Robotics and Web Development (Joomla)

	(Joomla)”					
	Annual series of lecture on “FOCAL POINT”	9 th November, 2012	Faculty and students	IEEE member	IEEE	Series of lecture
	Seminar on the topic “Recent Advances in Microwave Technologies”	17 th Nov.2012	Faculty and students	Dr. Ananjan Basu.	IEEE	Microwave Technologies
	Xquizite, Annual inter college quiz.	20 th November 2012	Students	IEEE Society members	IEEE	Inter college quiz
	Workshop on “Speech Recognition and Image Processing” on in MSIT.	17 th to 21 st December 2012 ,	Faculty and students	Academicians	MSIT	Speech Recognition and Image Processing
	Industrial visit	11th-13th October	Students	MSIT	Students	Industrial visit to CDAC Mohali-2nd shift
	Present Industrial requirement for fresh technical graduate	24/08/2012	Students	Microsoft IT Academy	MSIT	Seminar
2013	Workshop on “Android Bootcamp”	on 23rd & 24th January 2013	Faculty and students	IEEE	IEEE-MSIT	Android Bootcamp”
	Lecture on “WIE FORUM OF DELHI SECTION ”	1st February , 2013,	Faculty and students	IEEE	IEEE MSIT	FORUM OF DELHI SECTION
	Annual Meet IEEE	2nd February , 2013,	Faculty and students	IEEE	IEEE MSIT	Annual Meet
	Workshop on Twitter Bootstrap	22nd April 2013	Faculty and students	IEEE	IEEE-MSIT	Twitter Bootstrap
	Workshop on Digital Image Processing	9th & 10th March 2013	Faculty and students	IEEE	IEEE-MSIT	Digital Image Processing
	Seminar on “Android Apps and its Market”	14th August, 2013.	Faculty and students	Mr. Sagar Suneja	MSIT	Android Apps

	Closing ceremony of Summer Grand Program	27th August, 2013	Faculty and students	IEEE	IEEE-MSIT	Summer Grand Program
	Workshop on “Cern Meet the Scientist Events”	5th September, 2013.	Faculty and students	IEEE	IEEE-MSIT	Cern Meet
	Seminar on the topic “Android Application for Social Security”	7th September, 2013.	Faculty and students	Mr. Sagar Suneja	MSIT	Android Application
	Workshop on “Cloud Computing and its Components”	30th & 31st October 2013	Faculty	Mr Anshul Jain	MSIT	Cloud Computing
	Lecture on “Focal Point”	9th Nov. 2013	Students	IEEE	IEEE-MSIT	Series of Lectures
	Seminar under “Star Program”	2 nd December, 2013.	Students of MSIT MTTS	John C. Crosby	IEEE-MSIT	Star Program
	Guest talk on information security	12/2/2013	Students	Mr. Himanshu Sharma	Technocrat team	Guest lecture
	Guest talk on research opportunities	12/3/2013	Students	Mr. A. K. Dhamija	Technocrat team	Guest lecture
	Hands-on session on PHP	25/04/2013	Students	Mr. Amitabh Dhawal	Technocrat team	Guest lecture
	Guest talk on GSoC	22/08/2013	Students	Mr. Raghu Nayyar	Technocrat team	Guest lecture
	Student talk on Gaming	19/11/2013	Students	4 students	Technocrat team	Student talk
	Mock Test and interview	14/03/2013	Students	Ms. Nishtha Jatana	MSIT	Mock placement session
2014	Visit to NGO “A visit for a cause”	12th January, 2014.	Students	Ms. Pallavi Goswami	IEEE-MSIT	NGO visit
	A workshop on “Artificial Intelligence and Machine Learning”	10th & 11th February, 2014	3rd year students	Mr. Anshul Jain	MSIT	AI and Machine learning
	Avensis 2014		Faculty & Students		MSIT	Technical Fest

workshop on "HTML-5"	12th &13th April 2014.	Inter College Students	IEEE members	IEEE-MSIT	HTML-5
Workshop on "Implementation of Sensor Networks using NS2"	25th &26th April, 2014.	Faculty	Mr. Omesh Yadav, NEX-G Technologies	MSIT	Sensor networks using NS2
Report-Talk on "Microsoft Internship Program"	12th-13th Aug, 2014	Students	Ayush and Amit (Final year students MSIT)	MSIT	Student Talk
Seminar on "How to crack CAT Exam" by "Ankganit"	20th Aug.' 2014	CSE Students	Representative from Ankganit	Free	CAT exam preparation
Red Hat Linux Administration	14th Oct,2014	Faculty	Mr.Santosh Gupta	Free	Red Hat Linux
Workshop on "Big Data and Hadoop"	31 Oct and 1st Nov 2014	Faculty	Mr. Omesh Yadav	MSIT	Big Data and Hadoop
Hands-on session on game development	15/01/2014	Students	Mr. Nikhil Garg	Technocrat team	Hands-on session
Hands-on session on Ethical Hacking	20/03/2014	Students	Mr. Adwiteeya Agrawal	Technocrat team	Hands-on session
Students' talk on Information Security	2/5/2014	Students	Students	Technocrat team	Student talk
Hands-on Session on WORDPRESS	18/10/2014	Students	Students	Technocrat team	Hands-on session
Android based hands-on session	20/11/2014	Students	Students	Technocrat team	Hands-on session
Seminar on "How to Crack an interview"	14/08/2014	Students	IES	MSIT	seminar
Seminar on "CV Writing"	21/08/2014	Students	Times (Mr. Ramachandran)	MSIT	seminar
Interaction with senior project leader at codechef	20/08/2014	Students	Mr. Anup Kalbalia	MSIT	seminar
Seminar on "How to Crack	22/08/2014	Students	IES	MSIT	seminar

	an interview" after CAT					
	Guest lecture on "Data Analytics"	4/2/2014	Students	Dr. Vishal Bhatnagar	MSIT	Guest Lecture
	Workshop on "public Speaking"	28/01/2014 -29/-1/2014	Students	OSAHUB	Students	Workshop
	Seminar on "Public Speaking and Case study"	21/01/2014	Students	Times Education	MSIT	Seminar
	Seminar on "How to crack interview"	5/2/2014	Students	Times Education	MSIT	seminar
	Industrial visit of 2nd year students(2nd Shift) to CDAC Mohali	8/04/2014-11/04/2014	Students	MSIT	Students	Industrial Visit
	Industrial visit of 3rd year students(2nd Shift) to DFSC Chandigarh and Institute of ASRN shimla	10/04/2014 - 14/04/2014	Students	MSIT	Students	Industrial Visit
	Mock placement session	26/03/2014 - 27/03/2014	Students	MSIT	MSIT	Mock placement session
2015	Hackathon	Jan 2015	All CSE & IT students	IEEE CS chapter and Hackerearth	MSIT	online hacking competition
	Expert Lecture in "wireless networks"	28 Feb, 2015.	Faculty	Dr. Amita Malik, Dr. Sanjay Malik	MSIT	Wireless Networks
	Avensis 2015	25th- 26th March 2015	Faculty & Students		MSIT	Technical Fest
	Genesis 2015	27th March 2015	Faculty & Students		MSIT	Cultural Fest
	Seminar on "Emerging Trends in Information Technology"	6th September, 2015	CSE Students 3rd yr.	Mr. Anshul from OSA infosystem	Free	
	Workshop on "Android"	12th September, 2015	CSE Students 2nd yr.	Ms. Ankita from CETPA infotech	Free	Android

Workshop on "Robotics"	7th October, 2015	CSE Students 3rd yr., 2nd yr.	i3indya technologies	MSIT	Robotics
Seminar on CAT preparation	14th October 2015	CSE Students 3rd yr.	Mr. Ankit Gaur from ANK GANIT	Free	CAT Preparation
Seminar on GRE preparation	20TH October, 2015	3RD YEAR ALL BRANCHES	Mr. BIJUY	Free	GRE Preparation
TedX event	21st October	All Students	Mega Event with no. of eminent speakers	MSIT	
Workshop on Code Optimization	30th October, 2015	CSE Students (2nd Yr.)	Mr. Manu Lauria from DKOP Labs Pvt. Ltd.	Free	Coding
CodeStart	31st October, 2015	All CSE & IT students	IEEE CS chapter and HackerEarth	MSIT	a coding competition
Seminar on "Vedic Mathematics"	16/10/2015	Students(3rd year- CSE/IT/E CE-2nd Shift)	Mr. Anurag(Head-Catalyst)	MSIT	Seminar
Seminar on "MBA preparation"	6/10/2015	Students(3rd year- CSE/IT/E CE-2nd Shift)	Mr. Mayank(IMS-Ghaziabad)	MSIT	Seminar
Seminar on "Personal Interviews"	25/08/2015	Students(3rd year- CSE/IT/E CE-2nd Shift)	Ms. Arti Saxena	MSIT	Seminar
Seminar on "Vocabulary Development"	9/9/2015	Students(3rd year- CSE/IT/E CE-2nd Shift)	IMS Ghaziabad	MSIT	Seminar
FDP on "How to write research paper"	26/09/2015	Faculty members	Dr. Anurag Singh (NIT Delhi)	MSIT	Seminar
Hands on session on Python	5/5/2015	Students	Students	Technocrat team	Seminar
Session on Hackathon	5/11/2015	Students	Students	Technocrat team	Seminar
Mock	27/04/2015	Students	Students	MSIT	Mock

	placement session	- 28/05/2015				placement session
2016	Workshop on Google Docs.	8th January, 2016	CSE , ECE Faculty	Mr. Navdeep Bohra, MSIT	MSIT	General Purpose
	Workshop on Machine Learning	29 Jan 2016	Students interested in research.	IEEE CS chapter	MSIT	General Purpose
	FDP on Emerging Trends in Information Technology	29th Feb. - 4th March 2016	CSE , IT Faculty	Prof. K.L.Chopra, Prof. Sudhanshu Choudhary, Prof. Dhurinder, Prof. M.N. Hooda, Prof. S.K. Garg, Prof. Keher Singh, Prof. Arvinder Kaur, Prof. V.P.Vishwakarma, Ms. Upma Srivastava, Prof. Parimala Prakash, Prof. Daya Gupta	MSIT	
	Seminar on Latest Techniques in Information Technology	9th March, 2016	CSE 2nd yr and CSE 3rd yr students	Cepta India Pvt. Ltd.	Free	
	HCL Internship Test	11th March, 2016	CSE 2nd yr and CSE 3rd yr students	HCL Technologies		Internship Exam
	IBM Internship Test	18th March, 2016	CSE 2nd yr and CSE 3rd yr students	IBM Technologies		Internship Exam
	Seminar on "Java Development"	17/03/2016	Students	Mr. Hassan	MSIT	Seminar
	E-summit	16/04/2016 - 17/04/2016	Students	E-Cell(MSIT)	MSIT	Internship fair
	Session by Mozilla Team	30/01/2016	Students	Mozilla Team(Delhi)	Technocrat	Session

26. Student profile programme/course wise:

Name of Course/Prog.	Application Received	Selected	Enrolled		Pass Percentage
			M	F	
CSE/2009-13	Not Applicable*	167	114	53	100%
CSE/2010-14	Not Applicable*	169	129	40	99.57%
CSE/2011-15	Not Applicable*	183	129	54	100%

***Admission through CET conducted by GGSIP University**

27. Diversity of Students

Name of the Course	% of Students from the same state	% of students from other States	% of Students From Abroad
B.Tech 1 st year(2015-19)	87.82	12.18	0
B.Tech 2 nd year(2014-18)	89.73	10.27	0
B.Tech 3 rd year(2013-17)	89.335	10.665	0
B.Tech 3 rd year(2012-16)	88.245	11.755	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Name of the Examination	2016-2012	2015-2011	2014-2010	2013-2009
GRE	5	7	2	2
TOFEL	-	2	2	2
GMAT	-	-	-	-
CAT	12	-	4	5
GATE	10	7	4	8

Defense Services	-	-	-	-
------------------	---	---	---	---

29. Student progression

Student progression	Against % enrolled	
	Batch	%
UG to PG	2014 pass out	6.2
	2015 pass out	18.25
	Batch	%
PG to M.Phil.	2014 pass out	Nil
	2015 pass out	Nil
	Batch	%
PG to Ph.D.	2014 pass out	Nil
	2015 pass out	Nil
	Batch	%
Ph.D.to Post-Doctoral	2014 pass out	Nil
	2015 pass out	Nil
	Batch	%
Employed	Batch	%
Campus selection	2014 pass out	92%
Other than campus recruitment	2015 pass out	93.5%
Entrepreneurship/Self-employment	Batch	%
	2014 pass out	3.80%
	2015 pass out	5%

30. Details of Infrastructural facilities

- a) Library : **Yes (Departmental Library, Book Bank as well as Centralized Library)**
- b) Internet facilities for Staff & Students: **Yes, Every faculty has systems with internet facility and all the labs are empowered with high-speed internet facility.**
- c) Class rooms with ICT facility

Usage Mode	Room no. with ICT facility(projector and audio-video aid)
Dedicated	#105, #107
Shared	#06, #206, #406, #504, #510

- d) Laboratories :

S. No.	Lab Name	Subjects	Name of Equipment	Make	Quantity	Total
1	ADA &	Java,	Server	WIPRO	1	63

	DBMS Lab LG-10	ADA, DBMS	Computer System	WIPRO/ ACER	30	
			UPS	APC/ MICROTECK	31	
			HP LaserJet Printer 1008	HP	1	
2	OOPS & SE Lab LG-11	OOPS, SE, ST, Compiler Constructi on	Server	IBM	1	70
			Computer System	HCL/WIPRO/ ACER	30	
			UPS	APC/MICRO TEK	31	
			HP Laser Jet P1008 Printer	HP	1	
			HCL Speaker	HCL	1	
			D Link 24 ports Switch	D-LINK	5	
			External DVD Reader/ Writer	ENTER	1	
3	DS & WEB ENGG. Lab LG-12	DS, Mobile Computin g, Applied Maths, Network Security	Computer System	WIPRO /HP	30	62
			UPS	APC	30	
			HP LaserJet Printer 1020 plus	HP	1	
			HP Flatbed Scanner-200	HP	1	
4	FOC & COA Lab #402	FOC & COA	Computer System	ACER	30	66
			UPS	APC	30	
			HP LaserJet Printer 1008	HP	1	
			Multimedia Projector Acer X1161	ACER	1	
			D Link 24 ports Switch	D-LINK	2	
			D Link 8 port Switch	D-LINK	1	
			External DVD Reader/ Writer	ENTER	1	
5	FOC/ITP Lab # 224	ITP & FOC	Computer System	Intex, HCL, Wipro, HP	28	58
			UPS	APC	28	
			16 Port Swich	D-Link	1	
			HP LeserJet 1020	HP	1	

31. Number of students receiving financial assistance from college, university, government or other agencies:

Scholarship	2012-2013	2013-2014	2014-2015	2015-2016
EWS	-	05	09	13
MERIT	12	09	04	-
POST-METRIC	-	-	04	-

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Event Description	Date	Target Audience	Resource Persons
Seminar on Internship and research opportunities.	20 th August ,2012	1st and 2nd year students	Mr. Akash Dang and Mr. Anubhav Tyagi, Vice Chairperson, IEEE MSIT.
Seminar on “Master in Engineering Management and planning and preparing CAT 2012”	5 th September 2012	3 rd and 4 th year students	IMS faculty
Seminar on “ARM7 CORTEX 3”	10 th September 2012	Faculty and students	Faculty MSIT
Workshop on “Android applications and development”	11 th & 12 th September 2012	Faculty	Mr. Ravi Upadhayay
On IEEE MSIT celebrated IEEE DAY by Technical Project Exhibition	6 th Oct. 2012	Students	
Workshops on “Robotics and Web Development (Joomla)”	19 th and 20 th Oct. 2012	Students	IEEE member
Annual series of lecture on “FOCAL POINT”	9 th November, 2012	Faculty and students	IEEE member
Seminar on the topic “Recent Advances in Microwave Technologies”	17 th Nov.2012	Faculty and students	Dr. Ananjan Basu.
Xquizite, Annual inter college quiz.	20 th November 2012	Students	IEEE Society members
Workshop on “Speech Recognition and Image Processing” on in MSIT.	17 th to 21 st December 2012 ,	Faculty and students	Academicians
Workshop on “Android Bootcamp”	on 23 rd & 24 th January 2013	Faculty and students	IEEE
Lecture on “ WIE FORUM OF DELHI SECTION ”	1 st February , 2013,	Faculty and students	IEEE

Annual Meet IEEE	2 nd February , 2013,	Faculty and students	IEEE
Workshop on Twitter Bootstrap	22 nd April 2013	Faculty and students	IEEE
Workshop on Digital Image Processing	9 th & 10 th March 2013	Faculty and students	IEEE
Seminar on “Android Apps and its Market”	14 th August, 2013.	Faculty and students	Mr. Sagar Suneja
Closing ceremony of Summer Grand Program	27 th August, 2013	Faculty and students	IEEE
Workshop on “Cern Meet the Scientist Events”	5 th September, 2013.	Faculty and students	IEEE
Seminar on the topic “Android Application for Social Security”	7 th September, 2013.	Faculty and students	Mr. Sagar Suneja
Lecture on “Focal Point”	9 th Nov. 2013	Students	IEEE
Seminar under “Star Program”	2 nd December, 2013.	Students of MSIT MTTs	John C. Crosby
Visit to NGO “ A visit for a cause”	12 th January, 2014.	Students	Ms.Pallavi Goswami
A workshop on “Artificial Intelligence and Machine Learning”	10 th & 11 th February, 2014	3 rd year students	Mr. Anshul Jain
Avensis 2014		Faculty & Students	
workshop on “HTML-5”	12 th & 13 th April 2014.	Inter College Students	IEEE members
Report-Talk on “Microsoft Internship Program”	12 th -13 th Aug, 2014	Students	Ayush and Amit (Final year students MSIT)
Seminar on "How to crack CAT Exam" by "Ankganit"	20th Aug.' 2014	CSE Students	Representative from Ankganit
Hackathon	Jan 2015	All CSE & IT students	IEEE CS chapter and Hackerearth
Expert Lecture in “wireless networks”	28 Feb, 2015.	Faculty	Dr. Amita Malik, Dr. Sanjay Malik
Avensis 2015	25 th - 26 th March 2015	Faculty & Students	
Genesis 2015	27 th March 2015	Faculty & Students	
Seminar on "Emerging Trends in Information Technology"	6th September, 2015	CSE Students 3rd yr.	Mr. Anshul from OSA infosystem

Workshop on "Android"	12th September, 2015	CSE Students 2nd yr.	Ms. Ankita from CETPA infotech
Workshop on "Robotics"	7th October, 2015	CSE Students 3rd yr., 2nd yr.	i3indya technologies
Seminar on CAT preparation	14th October 2015	CSE Students 3rd yr.	Mr. Ankit Gaur from ANK GANIT
Seminar on GRE preparation	20TH October, 2015	3RD YEAR ALL BRANCHES	Mr. BIJUY
TedX event	21st October	All Students	Mega Event with no. of eminent speakers
Workshop on Code Optimization	30th October, 2015	CSE Students (2nd Yr.)	Mr. Manu Lauria from DKOP Labs Pvt. Ltd.
CodeStart	31st October, 2015	All CSE & IT students	IEEE CS chapter and HackerEarth
Workshop on Google Docs.	8th January, 2016	CSE , ECE Faculty	Mr. Navdeep Bohra, MSIT
Workshop on Machine Learning	29 Jan 2016	Students interested in research.	IEEE CS chapter
Seminar on Latest Techniques in Information Technology	9th March, 2016	CSE 2nd yr and CSE 3rd yr students	Cepta India Pvt. Ltd.
HCL Internship Test	11th March, 2016	CSE 2nd yr and CSE 3rd yr students	HCL Technologies
IBM Internship Test	18th March, 2016	CSE 2nd yr and CSE 3rd yr students	IBM Technologies

33. Teaching methods adopted to improve student learning

- Oral presentations
- Class tests
- Surprise tests
- Quizes
- Assignments
- Video lectures (NPTEL)
- Group discussions
- Seminars, Tutorials, Sessional (home assignments)
- Organizing industrial study visits
- Guest lectures by eminent persons from Institutions/Industry

- Help and encouraging students to write and present papers at national/international conference/workshops and journals

34. Participation in Institutional Social Responsibility (ISR) and Extension activities.

CSE department participates in the following activities conducted by institute:

- International Yoga Day is celebrated in the college.
- Summer Camp is organized for the students (Free of Cost) from nearby villages to enhance their social and technical skills
- Blood Donation Camp being organized by NGO like Rotaract in the Institution
- Tree plantation programme is also organized.
- A magazine named Suraj Sujan is published every month by the society.
- Environmental club of the college organizes various activities related to energy saving.
- Swacch Bharat is also promoted in college.

35. SWOC analysis of the department and Future plans

Strength

- Qualified and experienced faculty as per AICTE norms.
- Very High faculty retention rate.
- Meritorious students.
- Appropriate Infrastructure and environment to facilitate teaching and research
- Various methodologies followed for the better assessment of quality of education and research.
- High Entry level of students.
- Excellent placement in core and IT MNCs
- Enthusiastic involvement of students in extra and co-curricular

activities within and outside the institution.

Weakness

- Constant interaction with industry and research experts is needed for both faculty and students.
- More career building sessions and counseling sessions are needed for students to help themselves prepare better to enter the competitive world.
- Less number of quality research projects and publications.

Opportunities

- More interaction is needed with industry experts and projects with industry collaboration can be executed
- Career building sessions and Counseling sessions can be organized.
- External Sponsorship for Research Activities can be applied.

Challenges

- Tough competition from Autonomous colleges
- Better placements in terms of overall package offered to the students.
- Ever-growing technology; so matching of academic syllabus with the enhancement in technology is needed
- Getting students of good quality with the increase of permissible student intake

Future plans

- Motivating staff and students for increasing the number and quality of Publications in refereed journals
- Getting government funded research projects
- Counseling and career building sessions to be organized.

Evaluative Report of ECE Department

1. Name of the department : Electronics and Communication Engineering
2. Year of Establishment : 2001
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D. Etc.):

S. No.	Name of programme	Establishment Year	Intake
1.	Degree: Bachelor of Technology(B.Tech) Discipline: ECE	2001	180

4. Names of Interdisciplinary courses and the departments/ units involved:

S. No.	Courses Name	Course Code	Name of the Department	Semester
1	Applied Mathematics-III	ETMA- 201	Applied Science	3rd
2	Data Structure	ETCS -209	CSE	3rd
3	Applied Mathematics-IV	ETMA -202	Applied Science	4th
4	Electromagnetic Field Theory	ETEE-210	EEE	4th
5	Computer Organization and Architecture	ETCS -204	IT	4th
6	Communication Skills for Professionals	ETHS -301	Applied Science	5th
7	Control System	ETEL-307	EEE	5th
8	Industrial Management	ETMS-311	Applied Science	5th
9	Power Electronics	ETEE- 415	EEE	7th
10	Project Management	ETMS-421	Applied Science	7th
11	Data Structures Lab	ETCS -255	CSE	3rd
12	Applied Mathematics Lab	ETMA- 252	IT	4th
13	Linux Programming and Administration Lab	ETCS -260	IT	4th
14	Communication Skills for Professionals Lab	ETHS -351	Applied Science	5th
15	Control System Lab	ETEL-355	EEE	5th

5. Annual/semester/choice based credit system (programme wise):
Semester system
6. Participation of the department in the courses offered by other departments:

S. No.	Courses Name	Course Code	Name of the Department	Semester
1	Electronic Devices	ETEC -106	CSE,IT,EEE	2nd
2	Analog Electronics-I	ETEC- 203	EEE	3rd
3	Analog Electronics-II	ETEC-204	EEE	4th
4	Electromagnetic Field Theory	ETEE -210	EEE	4th
5	Communication Systems	ETEC- 208	CSE	4th
6	Digital Communication	ETEC -303	CSE	5th
7	Communication Systems	ETIT- 309	IT	5th
8	Communication Systems	ETEE -309	EEE	5th
9	Switching Theory and Logic Design	ETEE -307	EEE	5th
10	Digital Signal Processing	ETEC- 306	EEE	6th
11	VLSI Design	ETEC -308	EEE	6th
12	Electronic Devices Lab	ETEC -156	CSE,IT	2nd
13	Analog Electronics-I Lab	ETEC- 251	EEE	3rd
14	Analog Electronics-II Lab	ETEC - 254	EEE	4th
15	Communication Systems Lab	ETEC- 256	CSE	4 th
16	Switching Theory and Logic Design Lab	ETEE- 355	EEE	5th
17	Communication Systems Lab	ETIT- 357	EEE	5th
18	Communication Systems Lab	ETEE- 357	CSE	5th
19	Digital Signal Processing Lab	ETEC- 356	EEE	6th

7. Courses in collaboration with other universities, industries, foreign, institutions, etc.: **NIL**
8. Details of courses/programmes discontinued (if any) with reasons:
NIL
9. Number of teaching posts

Designation	Sanctioned	Filled
Professors	04	01
Associate Professors	08	02
Assistant Professors	24	34

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. /M.Phil. etc.)

S. No.	Name of faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD students guided for the last 4 years
1	Prof. B.S.Panwar	Doctor of Philosophy (Electrical Engineering)	Professor	Signal Processing	35	2
2	Dr. Puneet Azad	B.E,M.E, Ph.D	Associate Professor	Electronics & Communication Engineering	15+	NIL
3	Dr. Archana Balyan	B.E (E&C), M.E(E&C), Ph.D	Associate Professor	Electronics & Communication Engineering	22	NIL
4	Mr.Sushil Kumar	B.E, M.Tech, Ph.D (pursuing)	Asst. Prof.	Digital Logic Design	15+	NIL
5	Mr. Tajinder Singh Arora	B.Tech, M.Tech, Ph.D (pursuing)	Asst. Prof.	Signal Processing	14	NIL
6	Mr. Deepak Goyal	B.E, M.Tech	Asst. Prof.	Process Control	16	NIL
7	Ms. Ruchika Kumari	B.E., M.E, Ph.D (pursuing)	Asst. Prof.	Power Electronics	12	NIL
8	Ms. Meena Rao	B.Tech, M.Tech, Ph.D (pursuing)	Asst. Prof.	Wireless Communication	11	NIL
9	Ms. Richa Gupta	B.E, M.Tech, Ph.D (pursuing)	Asst. Prof.	Electronics and Communication	12	NIL
10	Ms. Deepti Deshwal	B.E., M.Tech	Asst. Prof.	Electronics and communication	10	NIL
11	Mr. Dinesh Sheoran	B.Tech, M.Tech, Ph.D (pursuing)	Asst. Prof.	Digital Communication	18+	NIL
12	Ms. Deepshikha Yadav	B.Tech M.Tech	Asst. Prof	Electronics and communication	7	NIL
13	Ms. Poonam Dahiya	B.Tech, M.Tech	Asst. Prof.	Digital Communication	8	NIL
14	Ms. Shaifali Madan Arora	B.Tech, M.Tech, Ph.D (pursuing)	Asst. Prof	Electronics and communication	14+	NIL
15	Ms. Aman Kumari Dahiya	B.Tech, M.Tech, Ph.D (pursuing)	Asst. Prof	Electronics & Communication Engineering	10	NIL
16	Ms. Anshul Pareek	B.E, M.Tech	Asst. Prof	Digital Communication	11	NIL
17	Ms. Neelam Ohlan	B.E., M.Tech	Asst. Prof.	Electronics and Communication	7	NIL
18	Dr. Sudesh Pahal	B.E., M.Tech, Ph.D	Asst. Prof.	Electronics and Communication	9.5	NIL
19	Ms. Geetanjali Sharma	B.Tech, M.Tech	Asst. Prof.	VLSI DESIGN	9	NIL

20	Ms. Neeru Rahee	B.Tech, M.Tech, Ph.D (pursuing)	Asst. Prof.	Image Processing	8	NIL
21	Ms .Sakshi Rajput	B.E, M.TECH VLSI	Asst. Prof.	VLSI DESIGN	3 year 9 months	NIL
22	Mr. Parveen Kumar	B.Tech, M.Tech, Ph.D (pursuing)	Asst. Prof.	Wireless Communication	7+	NIL
23	Ms. Nishtha	B.Tech, M.Tech	Asst. Prof.	Electronics and communication	2 year 4 months	NIL
24	Ms. Preeti Sehrawat	B.E, M.Tech	Asst. Prof.	Electronics and Communication	5.9	NIL
25	Ms. Prinkle Tahlan	B.Tech, M.Tech	Asst. Prof.	Signal Processing	5 month	NIL
26	Mr. Ravi Choudhary (HOD)	M.TECH	Asst. Prof.	Process Control	10 yrs	NIL
27	Mr. Pardeep Sangwan	M.TECH, pursuing Ph.D.	Reader	Speaker Recognition	13 yrs	NIL
28	Mr.Sandeep Singh	M.TECH, pursuing Ph.D.	Asst. Prof.	Signal Processing	7yrs	NIL
29	Mr. B K Hemant	M.TECH	Asst. Prof.	VLSI DESIGN & CAD	6 year 6 months	NIL
30	Ms. Upma Singh	M.TECH	Asst. Prof.	Instrumentation & Control	3 years 4 months	NIL
31	Ms. Parul Chaudhary	M.TECH	Asst. Prof.	ECE	4yrs 7months	NIL
32	Ms. Swati Malik	M.Tech.	Asst. Prof.	VLSI Design	3 years 4 months	NIL
33	Ms. Asha	M.TECH, pursuing Ph.D.	Asst. Prof.	ECE	4 yrs 6 months	NIL
34	Ms. Neetu Sehrawat	M.TECH, pursuing Ph.D.	Asst. Prof.	RF & MICROWAVE	4 yrs 3 months	NIL
35	Ms. Jasmine Chhikara	M.TECH	Asst. Prof.	VLSI DESIGN	3 years 4 months	NIL
36	Ms. Neeharika Dangi	M.TECH	Asst. Prof.	VLSI DESIGN	2.5 years	NIL
37	Mr. Pragati Dahiya	M.TECH, pursuing Ph.D.	Asst. Prof.	Digital Wireless Communication	1 year 7 months	NIL

11. List of senior visiting faculty: **NIL**

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

S. No.	Semester-Year	Name of Faculty	Course code	Theory load	Practical load	% of load out of departmental total load
1	Jan-May 2012	Ila Mehta	VLSI Design (ETIT-312)	5	13	4.43
2	Aug-Dec 2012	Prinkle Tahlan	EMFT (ETEE-210)	12	6	4.68
3	Jan-May 2014	Asha	EMFT (ETEE-210)	6	8	3.72
4	Jan-May 2013	Upma Singh	DC-II (ETIT-312)	6	6	11.04
			MC (ETIT-402)	6		
5	Aug-Dec 2013	Upma Singh	EDC (ETEC-107)	12	6	10.97
6	Aug-Dec 2013	Shweta Dabas	EDC (ETEC-107)	3	6	10.97
			DCS-II (ETEC-301)	5	4	
7	Aug-Dec 2013	Nishtha Saroha	AE-I (ETEC-207)	5	6	9.75
			DC-I (ETIT-307)	5		

13. Student-Teacher Ratio (programme wise)

Name of Programme	Year	No. of students	No. of Faculty	STR
B.Tech (ECE)	2012-13	429	28	15.32
	2013-14	506	34	14.88
	2014-15	566	37	15.29
	2015-16	581	37	15.70

14. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Designation	Filled
Support Staff(technical)	10

15. Qualifications of teaching faculty with DSc/D.Litt./Ph.D./MPhil/PG.

S. No.	Name of Faculty	Qualification
1.	Prof. B.S.Panwar	Doctor of Philosophy (Electrical Engineering)
2.	Dr. Puneet Azad	M.E. (ECE) , Ph.D.
3	Dr. Archana Balyan	M.E. (ECE) , Ph.D.
4	Dr. Sudesh Pahal	M. Tech.(ECE), Ph.D.
5.	Ms. Meena Rao	M. Tech., Ph.D Thesis submitted
6.	Mr. Sushil Kumar	M. Tech.(ECE), Pursuing Ph.D
7.	Mr. Tajinder Singh Arora	M.E(ECE), Pursuing Ph.D
8.	Mr. Deepak Goyal	M. Tech
9.	Ms. Ruchika Kumari	M. E., Pursuing Ph.D
10.	Ms. Richa Gupta	M.Tech. (ECE) Pursuing Ph.D
11.	Ms. Deepti Deshwal	M. Tech
12.	Mr. Dinesh Sheoran	M. Tech.(ECE) Pursuing Ph.D.
13.	Ms. Deepshikha Yadav	M. Tech.(ECE)
14.	Ms. Poonam	M. Tech.(ECE)
15.	Ms. Shafali Madan Arora	M. Tech.(ECE) Pursuing Ph.D.
16.	Ms. Aman Kumari Dahiya	M. Tech.(ECE) Pursuing Ph.D.
17.	Ms. Anshul Pareek	M. Tech.(ECE)
18	Ms. Neelam Ohlan	M. Tech.(ECE)
19.	Mr. Parveen Kumar	M. Tech.(ECE)
20.	Ms. .Geetanjali Sharma	M. Tech. VLSI
21.	Ms. Neeru Rathee	M.Tech., Pursuing Ph.D.
22.	Ms .Sakshi Rajput	M. Tech. VLSI Design
23.	Ms. Nishtha	M. Tech. (ECE),Net Qualified

24.	Ms. Preeti Sehrawat	M. Tech.(ECE)
25.	Mr. Ravi Choudhary (HOD)	M.TECH
26.	Mr. Pardeep Sangwan	Ph.D (Pursuing), M.TECH
27.	Mr.Sandeep Singh	Ph.D (Pursuing), M.TECH
28.	Mr. B K Hemant	M.TECH
29.	Ms. Upma Singh	M.TECH
30.	Ms. Parul Chaudhary	M.TECH
31.	Ms. Swati Malik	M.Tech.
32.	Ms. Asha	Ph.D (Pursuing), M.TECH
33.	Ms. Neetu Sehrawat	Ph.D (Pursuing), M.TECH
34.	Ms. Jasmine Chhikara	M.TECH
35.	Ms. Neeharika Dangi	M.TECH (On Maternity Leave)
36.	Mr. Pragati Dahiya	Ph.D (Pursuing), M.TECH (On Study Leave)

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Year wise	Number	Name of Project	Name of funding agency/industry	Total grant received Rs. Lac
2016-17	1	Design and Development of High-g MEMS Based Switch	DRDO Laboratory: Terminal Ballistic research Laboratory Chandigarh)	31.75 Lacs
2014-2017	1	“ Design and Development of MEMS Based Wideband Energy Harvesting SoC for Cellular Application	Department of Electronics and Information Technology	73.1 Lacs
2011-2014	1	CMOS Compatible MEMS Sensors for Health Care	Department of Science & Technology	37.71 Lacs

2008-12	1	Wireless Network Sensors Using SAW Devices	Indo-French Collaborative Programme for Advanced Research	13.42 Lacs
2013-15	1	Design and Development of Low Loss Narrow Band surface Acoustic Wave Filters on Quartz Substrate at VHF and UHF for Satellite Communication	ISRO Ahmedabad	23 Lacs

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Two projects are in progress and funding of Rs. 5 lacs has already been received. Work has already been assigned to the team members. The project is sponsored by Department of Electronics and Information Technology (DEIT). The second project "Design and Development of High-G-MEMS switches" is sponsored by MSIT.

18. Research Centre/facility recognized by the University: **NIL**

19. Publication (**Refer Annexure-1.ECE**)

- * a) Publication per faculty :
- * Number of papers published in peer reviewed journals (national / international) by faculty and students
- * Number of publications listed in international database
- * Monographs
- * Chapter in books(provide details)
- * Books edited
- * Books with ISBN/ISSN numbers with details of publishers
- * Citation Index
- * SNIP
- * SJR
- * Impact factor
- * h-index

20. Areas of consultancy and income generated:

S. No.	Name of Company	Consultancy Activities	Co-ordinator	Years	Rs. in Lakhs
1	Maxim IC Sunnyvale California	Broadband energy Harvesting using MEMS Structures	B S Panwar	2010-12	10 Lacs

2	AKSHI Gurgaon	CMOS Pixel design and Simulation for Imaging Application-Phase III”,	B S Panwar	2011-12	2.99 Lacs
3	AKSHI Gurgaon	CMOS Pixel design and Simulation for Imaging Application Phase -II	B S Panwar	2009-11	7.45 Lacs

21. Faculty as membership

- a) National committees b) International Committees c) Editorial Boards.

Membership details							
S. No.	Name	Member for national committees	Reviewer for national committees	Member for international committees	Reviewer for international committees	Member of Editorial Boards	Reviewer of Editorial Boards
1	Prof B.S.Panwar	-	-	Senior Member IEEE	1) IEEE Transactions on UFFC 2) IEE Trans. Electron Devices 3)Semiconductor Science & Technology 4)Journal Applied Physics 5)Smart Materials and Structures	-	-
1	Dr. Puneet Azad	Lifetime ISTE Member	-	-	-	-	-
2	Dr. Archana Balyan	Lifetime ISTE Member	-	-	-	-	-
3	Mr. Tajinder Singh Arora	Lifetime ISTE Member	-	TPC IEEE IndiaCon 2015	-	-	-
4	Mr. Deepak Goyal	Lifetime ISTE Member	-	-	-	-	-
5	Ms. Ruchika	Lifetime ISTE Member	-	-	-	-	-
6	Ms. Meena Rao	Lifetime ISTE Member	-	-	-	-	-

7	Ms. Shaifali Madan Arora	Lifetime ISTE Member	-	-	-	-	-
8	Ms. Aman Kumari Dahiya	Lifetime ISTE Member	-	-	-	-	-
9	Ms. Neelam Ohlan	Lifetime ISTE Member	-	-	-	-	-
10	Dr. Sudesh Pahal	Lifetime ISTE Member	-	-	-	-	-
11	Ms. Neeru Rathee	Lifetime ISTE Member	-	-	-	-	-
12	Ms. Nishtha	Lifetime ISTE Member	-	-	-	-	-
13	Ms. Preeti Sehwat	Lifetime ISTE Member	-	-	-	-	-
14	Mr. Pardeep Sangwan	Lifetime ISTE Member	-	-	-	-	-

22. Student projects

Year	% of students who have done in-house projects	% of students placed for projects in organizations outside the institution
2013-2014	100	0
2014-2015	100	0

23. Awards/Recognitions received by faculty and student

Faculty:

S. No.	Faculty Name	Awards	Year
1	Prof B. S. Panwar	(i) International IBM faculty award on Cloud Computing	2008-11
		(ii) Adjunct Professor University of Regina Saskatchewan Canada	2012
		(iii) Recipient Mobility Exchange Grant of Shastri Indo-Canadian	2013
2	Dr. Puneet Azad	Best Teacher Award	2013

Student:

Year	Name of Student	Project Name	Prize & Award
2010-2014	Kanishk Sachdeva Gaurav Bansal Kashish Gulabani Gaurav Gupta	Smart Gloves	First Prize in Inter college Project Competition at GGSIPU
2010-2014	Ishita Bhardwaj Himani Sharma V.Srinath	Gesture based intelligent wheel chair with voice controlled 3 level speed logic	First Prize in Inter college Project Competition at GGSIPU

2011-2015	Pranjal Saxena Saurav Singh		Amongst the finalist of Electronic Skill Competition World Skills
2012-2016	Anand Pratap Singh Sengar	Design of Reconfigurable Antenna for wireless communication devices	IEEE MTT-S Undergraduate Scholarship Award (Received scholarship \$1500)

University Topper & Gold Medalists:

S. No.	Batch	Name of Student
1	2008-12	Chetna Sachdeva
2	2009-13	Lakshay Suri

2011-12

Year	Batch	Position	Enrollment no.	Name	% of marks
4 th year	2008-12	1 st	0771502808	Deepak Mishra	86.89
		2 nd	1531502808	Chetna Sachdeva	86.25
		3 rd	1821502808	Himanshu Malik	85.65
3 rd year	2009-13	1 st	10715002809	Lakshay Suri	90.69
		2 nd	06715002809	Divya Kaushik	89.62
		3 rd	06115002809	Bhavna Ghai	89.26
2 nd year	2010-14	1 st	02015002810	B. Swathi	86.68
		2 nd	14715002810	Tanvi Ahuja	86.38
		3 rd	03415002810	Harmeet Singh Arora	85.89
1 st year	2011-15	1 st	06215002811	Himani Joshi	88.15
		2 nd	04615002811	Ashima	87.91
		3 rd	13015002811	Jasleen Kalsi	85.04

2011-12 (2nd shift)

Year	Batch	Position	Enrollment no.	Name	% of marks
1 st year	2011-15	1 st	03396302811	Arpit Gupta	84.84
		2 nd	02996302811	Sunny Kr. Yadav	84.51
		3 rd	03096302811	Sandeep Dahiya	83.90

2012-13

Year	Batch	Position	Enrollment no.	Name	% of marks
4 th year	2009-13	1 st	10715002809	Lakshay Suri	94.54
		2 nd	08715002809	Manan Sethi	90.20
		3 rd	04315002809	Akshay Adlakha	88.98
3 rd year	2010-14	1 st	25415002810	Rupali Sinha	87.98

		2 nd	15215002810	Jatin Chatrath	87.86
		3 rd	14615002810	Ishita Arora	87.69
2 nd year	2011-15	1 st	18315002811	Shelly	88.86
		2 nd	18415002811	Juhi Ramzai	88.05
		3 rd	13015002811	Jasleen Kalsi	86.96
1 st year	2012-16	1 st	03315002812	Anmol Varshney	90.44
		2 nd	14915002812	Sakshi Goel	89.89
		3 rd	12015002812	Vishnu Kumar Taparia	87.50

2012-13 (2nd shift)

Year	Batch	Position	Enrollment no.	Name	% of marks
2 nd year	2011-15	1 st	08296302811	Deepali Jindal	90.41
		2 nd	03396302811	Arpit Gupta	85.71
		3 rd	08396302811	Swekcha Agarwal	83.98
1 st year	2012-16	1 st	07696302812	K. Sanjula	89.15
		2 nd	08196302812	Divyanshi Rathi	88.33
		3 rd	06996302812	Anand Mohan Tiwari	88.02

2013-14

Year	Batch	Position	Enrollment no.	Name	% of marks
4 th year	2010-14	1 st	15215002810	Jatin Chatrath	89.15
		2 nd	02015002810	B. Swathi	88.87
		3 rd	25415002810	Rupali Sinha	88.26
3 rd year	2011-15	1 st	14415002811	Prashant Rana	87.95
		2 nd	13315002811	Gurpreet Singh	87.31
		3 rd	18415002811	Juhi Ramzai	87.02
2 nd year	2012-16	1 st	14815002812	Ashutosh Vaish	84.38
		2 nd	07415002812	Harshita Mittal	84.14
		3 rd	12815002812	Abhishek Sharma	82.25
1 st year	2013-17	1 st	02715002813	Shivangi Pritam	88.02
		2 nd	10415002813	Diksha Kalra	85.75
		3 rd	01515002813	Madhav Khandelwal	82.29

2013-14 (2nd shift)

Year	Batch	Position	Enrollment no.	Name	% of marks
3 rd year	2011-15	1 st	02996302811	Sunny Kumar Yadav	85.62
		2 nd	03396302811	Arpit Gupta	82.43
		3 rd	04996302811	Rohit Tiwari	81.41
2 nd year	2012-16	1 st	08196302812	Divyanshi Rathi	83.93
		2 nd	07696302812	K.Sanjula	83.34
		3 rd	01596302812	Sahil Dudani	80.89
1 st year	2013-17	1 st	00396302813	Abhay Gupta	86.25
		2 nd	00596302813	Ayush Sharma	82.85

		3 rd	00196302813	Amandeep Choudhary	82.75
--	--	-----------------	-------------	--------------------	-------

2014-15

Year	Batch	Position	Enrollment no.	Name	% of marks
4 th year	2011-15	1 st	18415002811	Juhi Ramzai	92.72
		2 nd	18315002811	Shelly	90.41
		3 rd	14415002811	Prashant Rana	89.17
3 rd year	2012-16	1 st	03315002812	Anmol Varshney	86.66
		2 nd	14815002812	Ashutosh Vaish	83.95
		3 rd	19115002812	K.Charmila	83.57
2 nd year	2013-17	1 st	00515002813	Nupur Pandey	85.38
		2 nd	02715002813	Shivangi Pritam	84.04
		3 rd	10415002813	Diksha Kalra	84.02
		3 rd	40315002813	Ridhima Sethi	84.02
1 st year	2014-18	1 st	02915002814	Rytham Kukreja	85.94
		2 nd	07515002814	Aditi Bansal	83.30
		3 rd	08615002814	Krishanbir Singh	83.24

2014-15 (2nd shift)

Year	Batch	Position	Enrollment no.	Name	% of marks
4 th year	2011-15	1 st	08296302811	Deepali Jindal	90.02
		2 nd	02996302811	Sunny Kumar Yadav	87.65
		3 rd	03396302811	Arpit Gupta	86.70
3 rd year	2012-16	1 st	07696302812	K.Sanjula	86.26
		2 nd	01596302812	Sahil Dudani	84.59
		3 rd	09896302812	Nitin Nagpal	84.05
2 nd year	2013-17	1 st	00396302813	Abhay Gupta	86.14
		2 nd	00196302813	Amandeep Choudhary	83.38
		3 rd	04096302813	Rishabh Aggarwal	82.70
1 st year	2014-18	1 st	01896302814	Kanika Mittal	82.07
		2 nd	01696302814	Yashasvi Bhatt	80.19
		3 rd	03696302814	Bhavya Gupta	79.56

Extra co-curricular activities:

S. No.	Name of the student	Event	Institution	Date	Prize won
1	Nilendu Ghosal	Robo-Hustle	ASET, Delhi	20th-21st March, 2015	Ist prize
2	Dheeraj Kaushik	Fast 15	DTU	Feb, 2015	Ist prize
3	Nilendu Ghosal	Robo F1	MAIT, Delhi	14th-16th March, 2016	Ist prize

24. List of eminent academicians and scientists / visitors to the department:

S. No.	Name	Organization	Event name	Date
1	Mr. Bhanu Pratap and Mr. Ashutose Gupta	Trident Tech Labs	Digital Design using Verilog HDL	Feb 17-19, 2013
2	Mr. Rashmin	Art of living foundation	Art of living foundation	Aug 26, 2014
3	Prof.(Dr.) S.S Agrawal	KIIT, Gurgaon	FDP on Signal Processing & its applications	Oct 13, 2014
4	Dr. Harish Prathasarathy	NSIT, Dwarka		
5	Mr. Abhishek Parmar	DRDO	Digital Design Techniques	Feb28, 2015
	Mr. Sushil Chandra	DRDO	Virtual Reality	Feb 28, 2015
6	Dr. Maitreyee Dutta, Dr. Renu Vig, Dr. H.K Sardana, Dr. Lini Mathew	NITTTR, Chandigarh	Artificial Neural Network	April 25-29, 2016
7	Dr. Mridula Gupta	University of Delhi, South campus	Project Viva	Dec 2015 Jan 2015 Aug 2014 Jan 2014
8	Dr. Maneesha Gupta	NSIT, Dwarka	Project Viva	Aug 2015
9	Dr. A.K. Singh	Sharda University	Project Viva	May 2016
10	Dr. Niranjana Bhattacharya	BPIT, Rohini	Project Viva	May 2016

25. Seminars/Conferences/Workshops organized & the source of funding

S. No	Topic	Date organized	Year wise	Year wise Assessment (Summary)	Name of speaker/ Organization	Who attended it
1	Guest lecture on Mentorship program by osyter	Aug 27,2012	Aug 12- May 13	4 Seminars	Mr.Ankit Mishra/Oysrer	ECE 5th sem,ECE 7th sem
2	Guest Lecture on VLSI and Embedded Training	Aug 31,2012			Mr.Devender Khari/DKOPS	ECE 5th sem,ECE 7th sem
3	Guest Lecture on Research and Nurturing Academic	Dec 15,2012			Mr.Sushil Chandra	ECE 5th sem,ECE 7th sem
4	One day seminar on Advances and communication Technology	March 7,2013			Mr. R.R Yadav/BSNL	ECE 6th sem

5	Talk on Employability and Challenges	Aug 14,2013	Aug 13- May 14	6 Seminars/2 workshops/1 Mock Test/1 project competition	Mr. Atul Bhatia/Synopsis	ECE 5th sem,ECE 7th sem
6	Talk on IAF as a carrier for engineers	Aug 23,2013			Mr. S.K Sharma/ IAF	ECE 5th sem,ECE 7th sem
7	Lecture on Target 2020 and beyond	Sep 28,2013			Mr. T V B Subrahmanyam/ Analog Industry	ECE 5th sem,ECE 7th sem
8	Seminar on Emerging trends in Embedded Industry	Oct 5,2013			Mr. Anurag Pratap/ S T Micro Electronics	ECE 5th sem,ECE 7th sem
9	An interaction of Final Year students with HKUST	Oct 21,2013			HKUST	ECE 7th sem
10	Workshop on Industrial Component identification	Feb 25,2014			Sahasra Sambhav Skill Development	ECE 2nd sem
11	Round table discussion with TVS Subramanyam	Mar 8,2014			Mr. T V B Subrahmanyam/ Analog Industry	ECE 8th sem
12	Workshop on Embedded System and Robotics	Apr 3 ,2014			RCPL	ECE 6th sem,ECE 8th sem
13	Student Mock Test	Apr 11 ,2014			Students of 4th Year	ECE 8th sem
14	Project Competition	May 22 ,2014			Prof. B V R Reddy/ GGSIPU	ECE 8th sem
15	Carrier In EDA tool	Aug 11 ,2014			Mr. Subrahmanyam / SYNOPSISYS	ECE 5th sem,ECE 7th sem
16	Seminar on Art of Living by Rashmin	Aug 26 ,2014			Mr. Rashmin/ Art of living	ECE 7th sem
17	Seminar on Higher studies and Resume writing	Sep 30,2014			Mr. Harprit Singh/ J E Pvt Ltd	ECE 7th sem
18	Seminar 'Become an Engineer"	Oct 1,2014			Mr. Narang Kishor/ Narnix Techno Labs	ECE 7th sem
19	Project competition	Nov 14,2014	Prof. A K Tyagi/ GGSIPU	ECE 7th sem		
20	National Skill Development council Competition	Jan 16- 18,2015	Mr. Ravi Kharbanda/NSDC	ECE 6th sem,ECE 8th sem		
21	Workshop on embedded system	Jan 28,2015	Mr. Jitender Singh / TICCO	ECE 6th sem		
			Aug 14- May1 5	5 Seminar/2 workshop/2 Project Competition		

22	Seminar "Embedded C"	Mar 23,2015			Mr. Sanjay Singh/CETPA	ECE 4th sem
23	Seminar on Industry Interaction	Aug 26,2015	Aug 15- May 16	3seminar/5 workshop/1 Mock interview	Mr. Taranjeet Kukul/Cadence Design	ECE 7th sem
24	Workshop on recent technologies in Telecommunication	Aug 27,2015			Mr. Suraj Dutt/ Erision	ECE 5th sem,ECE 7th sem
25	Workshop on modulation Scheme	Oct 7,2015			Mr. Sukhvinder Singh/Inception	ECE 5th sem
26	Manual control bots workshop	Jan 22,2016			Mr Ayush/MSIT	ECE 2nd year
27	Seminar on Art of Living by Rashmin	march 5,2016			Mr Rashmin,Art of Living	Faculty members
28	Workshop on Embedded System	Marh 15,2016			Mr.Sanjay Singh/CETPA	ECE 2nd year
29	Seminar on Career Opportunities (PSU) by T.I.M.E.	April 7,2016			Mr Chandan/TIME	ECE 3rd Year
30	Mock test for 3rd year Students	April 8,2016			final Year Students/MSIT	ECE 3rd Year,EC E 4th Year
31	Workshop on Verilog and FPGA	April 12 ,2016			Mr. Rakesh Gupta/3ST technologies	ECE 3rd Year

26. Student profile programme/course wise:

Name of the Course/programme (refer question no.4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
ECE/2008/-12	Not Applicable**	126	103	23	92.85
ECE/2009-13		118	95	23	95.76
ECE/2010-14		113	89	24	99.11
ECE/2011-15		183	141	42	100

*M = Male *F =Female

**This college is under GGSIPU and students get admission through

centralized admission scheme (CET).

27. Diversity of Students

Year	% of students From the Same state	% of students From other States	% of students from abroad
2012-13	87.71	12.28	0
2013-14	89.53	10.46	0
2014-15	86.41	13.58	0
2015-16	89.88	10.11	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

No. of students qualified in various competitive exam such as UGC-CSIR-NET,UGC-NET,SLET,ATE/CAT/GRE/TOFEL	2015-16	2014-15	2013-14	2012-13
	6	14	15	16

29. Student progression

Student progression	Against % enrolled	
UG to PG	Batch	%
	2013 pass out	(11/118) 9.32%
	2014 pass out	(13/118) 11.02%
	2015 pass out	(15/195) 6.77%
	2016 pass out	NIL
PG to M. Phil.	Batch	%
	2013 pass out	NIL
	2014 pass out	NIL
	2015 pass out	NIL
	2016 pass out	NIL
PG to Ph.D.	Batch	%
	2013 pass out	NIL
	2014 pass out	NIL
	2015 pass out	NIL
	2016 pass out	NIL

Ph.D.to Post-Doctoral	Batch	%
	2013 pass out	NIL
	2014 pass out	NIL
	2015 pass out	NIL
	2016 pass out	NIL
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	Batch	%
	2013 pass out	(58/118) 49.15%
		(11/118) 9.32%
	2014 pass out	(65/118) 55.08%
		(9/118) 7.63%
	2015 pass out	(98/195)50.26%
		(6/195) 3.08%
	2016 pass out	(129/199)64.8%
		(3/199)1.5%
	Entrepreneurship/Self-employment	Batch
2013 pass out		NIL
2014 pass out		NIL
2015 pass out		NIL
2016 pass out		NIL

30. Details of Infrastructural facilities:

A) Library (Departmental)

Total Books=115

B) Internet facilities for staff and students: The lab for internet is provided on the ground floor. The speed of internet facility has been recently upgraded from 30 Mbps to 50 Mbps.

C) Rooms with ICT facility

Usage Mode	Room no. with ICT facility(projector and audio-video aid)
Dedicated	#207
Shared	#06, #206, #406, #504, #510

D) Laboratories

S. No.	Lab Name	Name of Equipment	Quantity
--------	----------	-------------------	----------

1	Microprocessor and Microcontroller Lab	INTEL CORE 2 DUO Computers	8
		INTEL i5 Computer	5
		8086 MPS Kits	17
		8255 PPI Cards	5
		SMC Cards	3
		TLC Cards	3
		8085 MPS Kits	15
		8051 microcontroller kits	9
2	Microprocessor systems -2 Lab	INTEL CORE 2 DUO Computers	8
		INTEL i5 Computer	5
		8086 MPS Kits	17
3	Microprocessor systems -1 Lab	INTEL CORE 2 DUO Computers	8
		INTEL i5 Computer	5
		8086 MPS Kits	17
		8255 PPI Cards	5
S.no.	Lab Name	Name of Equipment	Quantity
4	Switching Theory & logic Design /DCS Lab	Digital Trainer Kits	20
		Flip-Flop Kits	6
		Digital IC Tester	2
		Computer System	2
		Multi meter	2
		HP LaserJet Printer 1020 plus	1
5	Consumer Electronics Lab	Electric Drill Machine	1
		Colour Pattern Generator	1
		Scientech Colour T.V. Trainer Kit	3
		Colour TV Oscar	1
		TV Antenna 6 Feet	1
		Oscilloscope (30 MHz 2 channel)	2
		Multi Meter	2
		Stereo Cassette Player	2
		Dish TV with Setupbox	2
		Computer System	2
		HP LaserJet Printer 1020 plus	1
6		Temprature Transducers Trainer Kit - ST2302	1

	Electronic Instruments & Measurements Lab	Pressure Transducers Trainer Kit- ST2308	1
		Digital To Analog Converter Trainer Kit - ST2602	1
		Lvdt Trainer Kit - ST2303	1
		Strain Gauge Trainer Kit - ST2304	1
		Optical Transducers Trainer Kit- ST2301	1
		Ultrasonic Transducers Trainer Kit-ST2312	1
		Multimeter Trainer Kit - NV7106	2
		Analog To Digital Converter Trainer Kit- ST2601	1
		Frequency Counter Trainer Kit- NV7105	3
		Function Generator Trainer Kit - NV7102	3
		Calibration Of Voltmeter & Ammeter Trainer Kit- NV6032	3
		Water Level Measurement Trainer Kit-ST2309	1
		Cathode Ray Oscilloscope Demonstrator Kit-ST2001E	3
		Digital Storage Oscilloscope (DSO)-TBS1072B-EDU	5
		Cathode Ray Oscilloscope (CRO)-801	5
		Frequency Counter-4093	3
		Spectrum Analyser Trainer Kit-ST2653	1
		Clamp Meter (AC/DC)-UT204	3
		LCR -Q METER-9304T	3
		Function Generator (10MHZ)-4061	5
		Spectrum Analyser (3GHZ)-MDO3012	1
		Multimeter , (UT 60B)	2
		PC	1
		Printer	1
7	Electronics Devices Lab	Analog digital trainer kit	10
		Digital Multimeter	10
		D.S.O.	10
		Computer system with(Common with E.I.M. Lab)	1
		Printer(Common with E.I.M.	1

		Lab)	
8	Optical Communication Lab	Advanced FODT Trainer	3
		Power Supply	3
		Fiber Optic Analog Link (Tx & Rx Pair)	2
		Power Supply	2
		Fiber Optic Digital Link(Tx & Rx Pair)	2
		Power Supply	2
		WDM Trainer with 1310nm Laser	2
		Power Supply	2
		WDM Trainer with 1550nm Laser	2
		Power Supply	2
		Advanced Fiber Optic Trainer	7
		Power Supply	7
		Optical Power Meter	2
		CRO 20Mhz	5
		Function Generator 1Mhz	5
		PC	4
9	Microwave Engineering Lab	Cooling Fan	4
		C.R.O	5
		Detector Mount	4
		Klystron Mount Tube	3
		Isolator	4
		Frequency Meter	4
		Variable Attenuator	4
		Slotted Section	3
		Tunable Probe	3
		Movable Short	2
		Matched Terminator	2
		S.S.Tuner	2
		W/G Stand	20
		VSWR Meter Analog	4
		VSWR Meter Digital	3
		Gunn Power Supply	2
Klystron Power Supply	4		
TNC Cable	2		

		Gunn Oscillator	2
		Pin Modulator	2
		Precision Short	1
		Solid Dielectric Cell	1
		Phase Shifter	1
		Liquid Dielectric Cell	1
		Mechanical Turn Table	1
		MT-9000 Microwave Test Bench	2
		Multi hole Coupler	3
		E-Plane Tee	1
		H-Plane Tee	1
		Standard Gain Horn	1
		Magic Tee	1
		Waveguide Twist	1
		E-Plane Bend	1
		Waveguide E-Plane Bend 90	2
		Function Generator 1MHz	2
		Pick Up Horn	1
		Slotted Antenna NB	1
		Dielectric Antenna	1
		E-Section Horn	1
		H-Section Horn	1
		Parabolic Disc 8"Dia	1
		Pyramidal Horn	1
10	Project Lab	PC	4
		DSO	2
		Noise alarm kit	1
		Microcontroller Based Code Lock Code	1
		Clap controlled Switch	1
		Soldering PASTE 15 gm	9
		Disordering Pump	5
		Stripper Wire & Cutter	4
		Self Adjusting cutter /wire stripper	1
		Solder Soft 100gm	2
		Long Nose Pliers (PYE)	5

Screw Driver 9 inch	3
Screw Driver 824	4
Screw Driver 825	5
Digital Millimeter DT 9205A	6
Soldering Iron 25 Watt	13
Transformer 606 Delton	10
Main Tester 813	9
File Flat 6"	8
Battery 9 volt	8
PCB 6x4 cm	28
PCB 13x8 cm	24
Tweezers	11
Screw Driver 932	0
Screw Driver 803	4
Screw Driver 804	0
Screw Driver 860	2
PVC Wire	2
Mesh Wire	10
VK- 85 Light Sensitive Trigger	2
VK -122 Liquid Level Sensor	2
VK-1Bird Bell	1
VK -15 Car Reverse Horn	1
VK-503 1 HZ generator	1
VK-540 Blue Bed Torch	1
VK-151 Listening Bug	1
VK-79 4 Channel Sequential Light	1
VK-82 Light Dimmer	3
VK-525 Musical Siren	0
VK-70 555 timer	1
VK-526 Hold on Music for Telephone	1
VK-524 Electronic Eye	1
VK-101 Two in one Electronic Game	0
VK-528 60 sec Voice Recording Message	0
VK-528 Solid State Recording	1
Bread Board Type PCB	0

		Touch Switch Plate	1
11-Jan	Communication system Lab	AM Transmitter (ST 2201)Trainer Kit	4
		AM Receiver (ST 2202)Trainer Kit	4
		Delta Modulation Demod(ST 2105) Trainer Kit	4
		FM Mod & Demod (ST2203)Trainer Kit	4
		FDM (ST 2211) Trainer Kit	2
		Function Generator 3 MHz	1
		Function Generator 1 MHz(4060C)	2
		Dual Power Supply(ST 4072)	2
		Sampling Theorem (ST 2101)Trainer Kit	3
		Data Formatting (ST 2106)Trainer Kit	5
		Data Reformatting (ST 2107) Trainer Kit	5
		Binary Data Generator(ST 2111)	4
		PAM/PPM/PWM (ST 2110)	5
		PCM Transmitter (ST2103) Trainer Kit	3
		PCM Receiver (ST 2104) Trainer Kit	3
		TDM-PCMmod/demod(ST2103) Trainer Kit	2
		TDM-PAMmod/demod(ST2102) Trainer Kit	2
		TDM Power supply	2
		Digital Multimeter	9
		CRO	6
		Stablizer(delco)	1
		Stablizer	1
		computer system lab(HCL,HP)	3
Printer(HP laserjet 1020)	1		
QAM (ST2112) Trainer Kit	2		
Digital storage Oscilloscope	9		
12	Digital Communication Lab	Delta Modulation Demod(ST 2105) Trainer Kit	4
		Function Generator 3 MHz	1
		Function Generator 1	2

		MHz(4060C)	
		Dual Power Supply(ST 4072)	2
		Sampling Theorem (ST 2101) Trainer Kit	3
		Data Formatting (ST 2106) Trainer Kit	5
		Data Reformatting (ST 2107) Trainer Kit	5
		Binary Data Generator(ST 2111)	4
		PCM Transmitter (ST2103) Trainer Kit	3
		PCM Receiver (ST 2104) Trainer Kit	3
		TDM-PCMmod/demod(ST2103) Trainer Kit	2
		TDM-PAMmod/demod(ST2102) Trainer Kit	2
		TDM Power supply	2
		Digital Multimeter	9
		CRO	6
		Stablizer(delco)	1
		Stablizer	1
		Computer system (HCL,HP)	3
		Printer(HP laserjet 1020)	1
		Digital storage Oscilloscope	9
13	Telecommunication Network Lab	Transmission line (ST2266) Trainer Kit	3
		QAM (ST2112) Trainer Kit	2
		DTMF Telephone Trainer	3
		EPABX Trainer Kit	1
14&15	Analog Electronics– I/II	Cathode Ray Oscilloscope(CRO)	10
		Function Generator	8
		Audio Signal Generator	2
		Bread Board	15
		Digital Multimeter	10
		HP LaserJet Printer 1020	1
		Computer P-IV	8
16	Digital signal processing & its application	Pentium(R) CPU-2.80 GHZ ,1GB RAM, 40 GB HDD(C45964-001)	1 (MatLab Server)

		Intel core i5, CPU-3.00 GHZ ACER computers,3GB RAM, 500GB HDD	13
		Pentium(R) CPU-2.80 GHZ ,1GB RAM, 40 GB HDD	4
		Digital Multimeter	2
		Matlab(version 7.0) (SOFTWARE)	10 users
		Printer HP	1
		Stablizer	2
		C D Writer	1
		DVD Writer	1
		20 MHZ CRO	7
		6713 DSK kit	5
		Code Composer Studio (SOFTWARE)	1
		ASK 06(DSP LAB)	1
		Finger Print (DSP LAB)	1
		LED Interface (DSP LAB)	1
		LCD Interface (DSP LAB)	1
		Matrix keyboard(DSP LAB)	1
		ADC Interface (DSP LAB)	1
		DAC Interface(DSP LAB)	1
		Function Generator (DSP LAB)	5
		Tool kit	1
		16 port switch	1
		24 port jack panel	1
17	Control system Lab	Pentium(R) CPU-2.80 GHZ ,1GB RAM, 40 GB HDD(C45964-001)	1 (MatLab Server)
		Intel core i5, CPU-3.00 GHZ ACER computers,3GB RAM, 500GB HDD	13
		Pentium(R) CPU-2.80 GHZ ,1GB RAM, 40 GB HDD	4
		Digital Multimeter	2
		Matlab(version 7.0) (SOFTWARE)	1
		Printer HP	1
		Stablizer	2
		C D Writer	1
		DVD Writer	1

		20 MHZ CRO	7
		SCL – 101 (CE LAB)	1
		SCL – 107 (CE LAB)	1
		SCL – 105 (CE LAB)	1
		SCL – 110A (CE LAB)	1
		SCL – 106 (CE LAB)	1
		SCL – 111 (CE LAB)	1
		SCL – 103 (CE LAB)	1
		Tool kit	1
		16 port switch	1
		24 port jack panel	1
18	Signals & systems Lab	Pentium(R) CPU-2.80 GHZ ,1GB RAM, 40 GB HDD(C45964-001)	1 (MatLab Server)
		Intel core i5, CPU-3.00 GHZ ACER computers,3GB RAM, 500GB HDD	13
		Pentium(R) CPU-2.80 GHZ ,1GB RAM, 40 GB HDD	4
		Matlab(version 7.0) (SOFTWARE)	1
		Printer HP	1
		Stablizer	2
		16 port switch	1
		24 port jack panel	1
		19	Digital System Design Lab
Computers	13		
Printer Hp Laserjet	1		
Scanner Hp Scanjet	1		
OHP	1		
Stablizer	2		
20	Embedded System Lab	8051 Kit	9
		PIC 16F877 Kit	2
		ARM Kit	2
		Cross C Compiler (Software CD)	1
		Computers	14
		Printer Hp Laserjet	1
		Scanner Hp Scanjet	1

		OHP	1
		Stablizer	2
21	Mobile Computing Lab	Nokia Mobile Toolkit 3.1 (Software Freeware)	1
		Computers	14
		Printer Hp Laserjet	1
		Scanner Hp Scanjet	1
		OHP	1
		Stablizer	2
22	VLSI Design Lab	Computers	14
		Printer Hp Laserjet	1
		Scanner Hp Scanjet	1
		OHP	1
		Stablizer	2
23	Digital Image Processing Lab	MATLAB Software	10 users

31. Number of students receiving financial assistance from college, university, government or other agencies:

	2012-13	2013-14	2014-15	2015-16
EWS Scholarship	-	12	9	13
Merit Scholarship	5	5	7	-
Post Matric Scholarship	-	-	4	-

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

S. No.	Details	Date	Target Audience	Resource Person /Purpose
--------	---------	------	-----------------	--------------------------

1	Industrial Visit at NPL	September 11, 2013	30 students (Topper) from ECE-1 & II, 7 th Sem	Visit of Solar Cells Labs at NPL
2	ARIES Industrial Visit	Sept.29 – Oct. 2, 2013	3 rd , 5 th & 7 th Sem Students of ECE specifically interested in Antenna	Industrial Visit at ARIES, Nanital
3	CEL Industrial Visit	October 14, 2013	39 Students visited ECE-I & II 3 rd Sem	CEL Industrial Visit, Sahibabad
4	Ambuja Cements, Nalagarh / Manali Industrial Trip	October 15-19, 2013	70 Students of ECE-I & II 5 th Sem attended	Industrial Visit
5	Industrial Visit at NPL	February 25, 2014	28 students from 4 th Sem ECE-1 & II, 2 from 8 th Sem	Visit of Solar Cells Labs at NPL
6	Industrial Visit at PCM Exim Pvt Ltd, Noida Phase-II	March 22, 2014	+ 30 students from ECE-I/II who attended workshop by Sahasra Sambhav on 25 Feb, 2014	Fabrication Unit
7	Students sent to Industrial Visit “Industry Links, work placements and career pathways in Engineering”	Nov 1, 2014	20 Top Students of 5/7 Sem	Professor Robert, Vice Chancellor & president, Loughborough University
8	Industrial Visit to “C-DAC, Mohali / Daramshala”	Nov 10 -14, 2014		Industrial Visit to Labs of C-DAC, Mohali
9	Industrial Visit to Parle-G, Pant Nagar / Sattal	April 4- 8, 2015	ECE final yr students	Industrial Visit
10	Industrial Visit to ARIES, Nanital	Sep 30, 2015	ECE Students, 30 students of 2 nd & 3 rd year	Industrial Visit
11	Industrial Visit to <i>Jaypee Himachal Cement Grinding & Blending Unit</i> , Nalagarh	Oct 24-27, 2015	5 th Sem ECE students	Industrial Visit
12	Industrial Visit on Department of Electronics and Information Technology, (DEITY), Electronics Niketan, CGO Complex, Lodhi Road	Oct 29, 2015	3 rd Sem ECE students	Industrial Visit
13	Ajanta Chemical Industries Rajpura Punjab	April 4, 2016	ECE final yr students	Industrial Visit
14	Avensis 2015	25 th - 26 th March 2015	Faculty & Students	
15	Genesis 2015	27 th March 2015	Faculty & Students	

33. Teaching methods adopted to improve student learning:

Faculty members of Electronics and Communication department implement a mix blend of various teaching methods depending upon the content for a particular class. These methods include:

- a) Oral presentations
- b) Class tests/Improvement tests
- c) Quiz
- d) Assignments
- e) Video lectures (NPTEL)
- f) Industrial visits
- g) Mock tests
- h) GDs
- i) PPTs

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- **BLOOD DONATION CAMP**
All donations to charity make a difference and nothing is comparable to donation of blood. Prakriti in association with Rotaray Blood Bank successfully organized a Blood Donation Camp in the campus of Maharaja Surajmal Institute which turned out to be a huge success. More than 300 units of blood was collected. Prior to the camp, students and staff members of MSI, MSIT, MSIP were apprised of the benefits related to blood donation by the Volunteers of Prakriti MSIT.
- **PINKATHON**
A walk initiative by Prakriti MSIT was organized to aware college peers about Breast Cancer. October was Breast Cancer Awareness Month which is an annual campaign to increase awareness of the disease. All Volunteers were dressed in pink and marched forward to bring awareness among fellows around them. While most people are aware of breast cancer, many forget to take the steps to detect the disease in its early stages. The rally was meant to encourage the policy of “Prevention is Better Than Cure”.
- **BREAK THE ICE**
Prakriti welcomed all the freshers to MSIT with a small interactive event, just to make all freshers familiar with college, students, seniors and other aspects, hence breaking the ice. An interactive quiz was organized for first and second shift students. The winning teams were awarded with cash prize

arranged by the contributions of Prakriti members themselves.

- **SEVA SANDWICH**
All too often, those in need are the easiest to overlook. Busy in our lives, we hardly get time to stop & share a word of comfort. We do want to help out but we don't know where to start. Prakriti in an association with "Seva Bharti" organized a campaign as an opportunity to chat & listen to the stories of our less privileged friends while serving them with Sandwiches prepared by its members and volunteers at the Centre itself.
- **HELPING NEPAL EARTHQUAKE VICTIMS**
Prakriti believes in the fact that "Everyone Can't help everyone but everyone can help Someone". The smallest of contributions matter. PRAKRITI collected aids for the Nepal Earthquake Victims. The aids were sent through the embassy of Nepal and feed India charitable trust. Anyone could donate anything, be it clothes, blankets, eatables, medicines, water bottles etc.
- **ABHYAAS**
A paper collection drive in association with Lakshyam NGO. "We turn your bundles of waste paper into useful notebooks". With this tag line the initiative taken by the Lakshyam NGO to reuse and recycle the waste paper was fulfilled by Prakriti MSIT as a small part by collecting waste paper, magazines, etc. and sent them to the NGO to be turned into a useful manner.
- **ENVA 2016**
Prakriti celebrated its foundation day on 3rd and 4th February 2016, as ENVA 2016. Mind Sizzling events with Environmental concerns on platter were organised which were witnessed by the students of multilingual institutions from Delhi-NCR. The Event promoted the ideology of environmental concern among youth. This year, Prakriti MSIT collaborated with various NGOs and invited some underprivileged children to enjoy the fest and participate in various events. The

kids from Lakshyam NGO were very talented and full of energy, as they performed a street play based on the life of women. The kids were happy getting standing ovation by the judges and appreciations by all the viewers.

35. SWOC analysis of the department and Future plans

Strength:

- Dedicated and dynamic faculty with good qualification and experience.
- Well-equipped laboratory, library & internet facilities.
- Focus on quality teaching for the students.
- Modern Infrastructure and environment to facilitate teaching and research.
- Various methodologies followed for the better assessment of quality of education and research.
- Enthusiastic involvement of students in extra co-curricular activities within and outside the institution.
- Encouraging students to participate in National Conferences.
- Extremely good placement.
- Excellent academic result of the students.

Weakness:

- Constant interaction with industry and research experts is needed for both faculty and students.
- Lack of career building sessions for students.
- Less number of quality research projects and publications.
- Consultancy work needs to be improved.
- Alumni network is weak and requires regular connection.

Opportunities:

- More projects with international level collaboration can be executed.
- Preparing students for various competitive exams like govt. services, CAT, GMAT, GATE, etc.
- Consultancy services can be extended to local industries and organizations.
- Development of skill development modules.

Challenges:

- Tough competition from Autonomous colleges.
- Cope up with rapid change in technology.
- Improving the enrolment of good quality students in each branch of the institution.
- Retention of Talented Faculty is a major challenge.

Future Plans:

- Motivating faculty and students to increase the number of

publications in refereed journals.

- Focus on increasing the no. of funded research projects.
- Improving the department-industry interaction.
- Student development programmes to be organized.

Evaluative Report of the Information Technology Department

1. **Name of the Department : Information Technology**
2. **Year of Establishment: 2001**
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D. etc.)**

S. No.	Name of programme	Establishment Year	Intake
1.	Degree: Bachelor of Technology(B.Tech) Discipline: Information Technology (IT)	2001	60
2.	Degree: Bachelor of Technology(B.Tech) Discipline: Information Technology (IT)	2009(additional intake)	120(60+60)

4. **Names of Interdisciplinary courses and the departments/units involved**

S. No.	Course code	Course name	Department	Year
1.	ETEE 207	Circuit and System	EEE/ECE	II
2.	ETEC 205	Switching Theory and Logic Design	ECE	II
3.	ETMA 201	Applied Mathematics-III	Applied Science	II
4.	ETMA 202	Applied Mathematics-IV	Applied Science	II
5.	ETEE 212	Control systems	ECE	III
6.	ETHS301	Communication Skills for Professionals	Applied Science	III
7.	ETIT 309	Communication Systems	ECE	III
8.	ETEE 310	Microprocessor and Microcontroller	EEE/ECE	III
9.	ETHS 402	Human Values and Professional Ethics-II	Applied Science	IV
10.	ETEE 257	Circuit and System Lab	EEE/ECE	II
11.	ETEC 253	Switching Theory and Logic Design Lab	ECE	II
12.	ETEE 260	Control systems Lab	ECE	III
13.	ETHS 351	Communication Skills for Professionals	Applied Science	III

14.	ETIT 357	Communication Systems Lab	ECE	III
15.	ETEE 358	Microprocessor and Microcontroller Lab	EEE/ECE	III

5. **Annual/semester/choice based credit system(programme wise):
Semester System**

6. **Participation of the department in the courses offered by other departments**

S. No.	Course code	Course name	Department	Year
1.	ETCS 204	Computer Organization and Architecture	ECE	II
2.	ETEC 310	Data Communication and Networks	ECE	III
3.	ETCS 209	Data Structures	EEE/ECE	II
4.	ETCS 255	Data Structures Lab	EEE/ECE	II
5.	ETCS 254	Computer Organization and Architecture Lab	ECE	II
6.	ETEC 358	Data Communication and Networks Lab	ECE	III

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :NIL**

8. **Details of courses/programmes discontinued(if any) with reasons :NIL**

9. **Number of Teaching posts**

	Sanctioned	Filled
Professors	02	Nil
Associate Professors	04	02
Asst. Professors	20	17

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc)**

S. No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4years
1	Dr. Prabhjot Kaur	Ph.D., M.Tech(IT), B.Tech(CSE)	Asst. Prof./ Reader	Data Mining & Soft Computing	14	Nil
2	Dr. Tripti Sharma	Ph.D, M.Tech(CSE), B.E(CSE)	Associate Prof.	Wireless Sensor Network	14	Nil
3	Dr. Suman Mann	Ph.D,M.Tech(CSE), B.Tech(CSE)	Associate Prof.	Data Warehousing	13	Nil
4	Dr. Anupama Kaushik	Ph.D, M.Tech(IT), B.E(CSE)	Asst. Prof.	Software Engineering	12	Nil
5	Ms. Sonika Malik	Pursuing Ph.D. M.Tech(CSE), B.Tech(CSE)	Asst. Prof.	Information Technology	11	Nil
6	Ms. Jyotsna	Pursuing Ph.D. M.Tech(IT), B.Tech(CSE)	Asst. Prof.	Data Mining	12	Nil
7	Ms. Shivanka	Ph.D. Pursuing ,M.Tech(CSE) B.Tech(IT)	Asst. Prof.	Wireless Sensor Network	10	Nil
8	Ms. Jyoti Khurana	Ph.D. Pursuing M.Tech(IT) B.E(CSE)	Asst. Prof.	Data Mining	10	Nil
9	Ms. Meena Siwach	M.Tech(IT), B.E(CSE)	Asst. Prof.	Information Technology	09	Nil
10	Mr. Surender	Ph.D. Pursuing M.Tech(CE) B.E(CSE)	Asst. Prof.	Artificial Intelligence	8.5	Nil
11	Ms. Preeti	Ph.D. Pursuing M.Tech(CSE) B.Tech(IT)	Asst. Prof.	Semantic Web	1.5	Nil
12	Mr. Manoj Malik	M.Tech	Asst. Prof.	CSE	11	NIL
13	Mr. Sitender Malik	M.Tech ,PhD Pursuing	Asst. Prof.	Machine Translation	12	NIL
14	Ms.Minakshi Tomer	M.Tech	Asst. Prof.	IT	10	Nil
15	Ms. Saba Khanum	M.Tech	Asst. Prof.	CSE	4	NIL
16	Ms. Sunesh Malik	M.Tech ,PhD Pursuing	Asst. Prof.	Image processing	6	NIL
17	Ms. Tripti Rathee	M.Tech	Asst. Prof.	IT	4	NIL

18	Ms. Mamta	M.Tech	Asst. Prof.	CSE	10	NIL
19	Ms. Vinita	M.Tech ,PhD Pursuing	Asst. Prof.	Software Testing	4	NIL

11. **List of senior visiting faculty : NIL**

12. **Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty : NIL**

13. **Student-Teacher Ratio (program wise)**

Name of Programme	Year	No. of students	No. of Faculty	STR
B.Tech (IT)	2012-13	355	19	18.6
	2013-14	362	19	19.0
	2014-15	363	19	19.1
	2015-16	383	19	20.1

14. **Number of academic support staff(technical) and administrative staff ; sanctioned and filled** Technical Staff: 03

15. **Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.**

S. No	Name of Faculty	Qualification
1	Dr. Prabhjot Kaur	Ph.D., M.Tech (IT)
2	Dr. Tripti Sharma	Ph.D. , M.Tech (CSE)
3	Dr. Suman Mann	Ph.D. , M.Tech(CSE)
4	Dr. Anupama Kaushik	Ph.D. , M.Tech(IT)
5	Ms. Sonika Malik	Pursuing Ph.D. ,M.Tech(CSE)
6	Ms. Jyotsna	Pursuing Ph.D. ,M.Tech(IT)
7	Ms. Shivanka	Ph.D. Pursuing , M.Tech(CSE)
8	Ms. Jyoti Khurana	Ph.D. Pursuing, M.Tech(IT)
9	Ms. Meena Siwach	M.Tech(IT)
10	Mr. Surender	Ph.D. Pursuing, M.Tech(CSE)
11	Ms. Preeti	Ph.D. Pursuing ,M.Tech(CSE)

12	Mr. Manoj Malik	M.Tech
13	Mr. Sitender Malik	PhD Pursuing, M.Tech
14	Ms.MinakshiTomer	M.Tech
15	Ms. Saba Khanum	M.Tech
16	Ms. Sunesh Malik	PhD Pursuing ,M.Tech
17	Ms. Tripti Rathee	M.Tech
18	Ms. Mamta	M.Tech
19	Ms. Vinita	PhD Pursuing ,M.Tech

16. **Number of faculty with ongoing projects from a)National
b)International funding agencies and grants received: NIL**
17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR,
etc. and total grant received: NIL**
18. **Research Centre/facility recognized by the University: NIL**
19. **Publications: Refer Annexure 1.IT**
- * a) Publication perfaculty :
 - * Number of papers published in peer reviewed journals (national / international) by faculty and students
 - * Number of publications listed in international database
 - * Monographs
 - * Chapter in books(provide details)
 - * Books edited
 - * Books with ISBN/ISSN numbers with details of publishers
 - * Citation Index
 - * SNIP
 - * SJR
 - * Impact factor
 - * h-index
20. **Areas of consultancy and income generated : NIL**
21. **Faculty as members in**
- a) National committees**
 - b) International Committees**
 - c) Editorial Boards.**

S. No	Name	Member for national committees	Member for international committees	Member of Editorial Boards
1	Dr. Prabhjot Kaur	CSI, ISTE	IEEE	-
2	Dr. Tripti Sharma	ISTE	-	-
4	Dr. Anupama Kaushik	ISTE	-	Satyam
5	Mr. Surender Singh	ISTE	-	-
6	Mr. Manoj Malik	-	IEEE	-
7	Ms. Minakshi Tomer	-	-	Satyam
8	Mr. Sitender	ISTE	IEEE	-
9	Ms. Sunesh Malik	ISTE	-	-

22. Student Projects

- a) Percentage of students who have done in-house projects including inter departmental/programme

Batch	% of Students
2012 Passout	100%
2013 Passout	100%
2014 Passout	100%
2015 Passout	100%

- b) Percentage of students placed for projects in organizations outside the Institution i.e. in Research laboratories/Industry/ other agencies

Batch	% of Students
2012 Passout	0%
2013 Passout	0%
2014 Passout	0%
2015 Passout	0%

23. Awards/Recognitions received by faculty and students

Faculty

1. Dr. Tripti Sharma received Best Teacher Award in Year 2015.
2. Dr. Prabhjot Kaur received Best Teacher Award in the year 2012.
3. Dr. Anupama Kaushik received Certificate of Appreciation for the year 2013-2014
4. Mr. Sitender Malik received Certificate of Appreciation for the year

2013-2014

5. Dr. Tripti Sharma received Certificate of Appreciation for the year 2014-2015
6. Ms. Saba Khanum received Certificate of Appreciation for the year 2014-2015
7. 4 Faculty members have awarded Ph.D. degree in year 2014-2015
8. Dr. Prabhjot Kaur organized a special session “Applications of Soft Computing: A Fusion of Foundations, Methodologies and Applications” as a ‘Session Chairperson’ in INDIACom-2016 held on March 16th -18th, 2016 at Bharati Vidyapeeth, New Delhi (India), sponsored by IEEE, IETE, GGSIPU, ISTE, CSI.
9. Dr. Prabhjot Kaur organized a special session “Advances in Speech, Image and Language Processing for Human Machine Communication” as a ‘TPC (Technical Programme Committee) member’ conducted in the Conference “CSI-2015” , sponsored by Springer held on 2nd -5th Dec., 2015, organized by CSI Delhi and NCR Chapters.
10. Dr. Suman Mann chaired a conference session as a “Session Co-Chairperson” in the conference “ICRITO-2015” sponsored by IEEE and organized by Amity University on 3rd Sep., 2015.
11. Dr. Tripti Sharma has reviewed papers for the IEEE International Conference CICN2015 held in Dec. 2015 in Jabalpur, M. P. and CSNT 2015 held in April, 2015 in Gwalier.
12. Dr. Prabhjot Kaur, Dr. Tripti Sharma, Dr. Anupama Kaushik have reviewed papers for the conference CSI-2015 held in Dec. 2015 in Delhi.

Students

University Topper & Gold Medalists:

S. No.	Batch	Name of Student
1.	2008-2012	Ankit Jain
2.	2010-2014	Shilpa Setia

2011-2012

4 th year	2008-12	1 st	0851503108	Ankit Jain	88.50
		2 nd	0641503108	Abhinav Palia	86.81
		3 rd	0701503108	Sonia Mittal	85.47
3 rd year	2009-13	1 st	05315003109	Divya Kundra	84.38
		2 nd	03515003109	Aditya Gakhar	83.28
		3 rd	03715003109	Jyoti Aggarwal	81.05
2 nd year	2010-14	1 st	07515003110	Priyanka Sehgal	80.77
		2 nd	07715003110	Archit Jain	80.18
		3 rd	06615003110	Akanksha Gupta	79.89

1 st year	2011-15	1 st	01715003111	Shelly	88.82
		2 nd	03315003111	Gunjit Khara	86.53
		3 rd	06415003111	Radhika Gandhi	84.76

2011-2012(2nd shift)

3 rd year	2009-13	1 st	04996303109	Himanshu Aggarwal	82.95
		2 nd	02496303109	Mohak Saini	81.22
		3 rd	03896303109	Vipul Bhojwani	78.33
2 nd year	2010-14	1 st	10296303110	Kritika Sobti	86.86
		2 nd	08396303110	Shilpa Setia	86.80
		3 rd	06796303110	Rohit Arora	83.00
1 st year	2011-15	1 st	08096303111	Deepali Jindal	87.17
		2 nd	07496303111	Pallavi Goswami	85.96
		3 rd	08296303111	Swekcha Agarwal	83.30

2012-13

4 th year	2009-13	1 st	05315003109	Divya Kundra	87.00
		2 nd	03615003109	Tushar Verma	85.26
		3 rd	01715003109	Megha Goel	83.67
3 rd year	2010-14	1 st	20715003110	Sanjmeet Abrol	85.59
		2 nd	07115003110	Priyanka Sehgal	84.50
		3 rd	07815003110	H. Abhinaya	84.36
2 nd year	2011-15	1 st	07515003111	Srishti Taneja	84.66
		2 nd	06415003111	Radhika Gandhi	84.29
		3 rd	11515003111	Meghna Sadhwani	84.11
1 st year	2012-16	1 st	06515003112	Deepali Duggal	91.63
		2 nd	07515003112	Nikita Sharma	89.58
		3 rd	08815003112	Manav Choudhary	89.06

2012-2013(2nd Shift)

4 th year	2009-13	1 st	04996303109	Himanshu Aggarwal	87.39
		2 nd	03896303109	Vipul Bhojwani	87.15
		3 rd	02496303109	Mohak Saini	86.46
3 rd year	2010-14	1 st	08396303110	Shilpa Setia	86.43
		2 nd	08896303110	Nupur Pasricha	85.53
		3 rd	10296303110	Kritika Sobti	84.95
2 nd year	2011-15	1 st	09196303111	Somya Arora	85.48
		2 nd	10096303111	Neha Kumari	81.38
		3 rd	09396303111	Mohit Mittal	80.91
1 st year	2012-16	1 st	09396303112	Aashima Bansal	90.30
		2 nd	07396303112	Swati	89.11
		3 rd	09496303112	Chirag Khanna	88.26

2013-2014

First Year	2013-17	1 st	03115003113	Niharika Batra	81.45
		2 nd	01415003113	Sonal Sahni	81.36
		3 rd	01915003113	Harsh Jot Singh	81.13
2 nd		1 st	07515003112	Nikita Sharma	84.27

Year	2012-16	2 nd	08815003112	Manav Choudhary	84.09
		3 rd	06515003112	Deepali Duggal	82.66
3rd Year	2011-15	1 st	06415003111	Radhika Gandhi	86.29
		2 nd	11515003111	Megha Sadhwani	85.59
		3 rd	11715003111	Bharti	85.24
4th Year	2010-14	1 st	20715003110	Sanjmeet Abrol	88.74
		2 nd	05915003110	Megha Jassal	85.48
		3 rd	20515003110	Garima Dhaka	85.41

2013-2014(2nd shift)

1 st Year	2013-17	1 st	01396303113	Shipra	83.60
		2 nd	00596303113	Charu	83.24
		3 rd	03996303113	Shivani Dewan	81.20
2 nd Year	2012-16	1 st	07396303112	Swati	82.96
		2 nd	10096303112	Kananda	80.04
		3 rd	06696303112	Abhimanyu	79.55
3 rd Year	2011-15	1 st	10096303111	Neha Kumari	81.67
		2 nd	08696303111	Karishma Chadha	78.26
		3 rd	09196303111	Somya Arora	77.57
4 th Year	2010-14	1 st	06796303110	Rohit Arora	78.57
		2 nd	08896303110	Nupur Pasricha	77.20
		3 rd	10296303110	Kritika Sobti	76.20

2014-2015

First Year	2014-18	I	04315003114	Neha Kumari	85.70
		II	01215003114	Ashana Sachdeva	85.09
		III	02315003114	Simran Ahuja	83.69
2nd Year	2013-17	I	03915003113	Anshul Gupta	83.34
		II	04115003113	Niyati Singal	83.16
		III	01915003113	Harsh Jot Singh	82.68
3rd Year	2012-16	I	06515003112	Deepali Duggal	86.19
		II	08815003112	Manav Choudhary	86.12
		III	07515003112	Nikita Sharma	85.64
4th Year	2011-15	I	06415003111	Radhika Gandhi	88.15
		II	10115003111	Bhumika Gavery	85.35
		III	11715003111	Bharti	85.22

2014-2015(2nd Shift)

First Year	2014-18	I	02496303114	Akanksha Saxena	88.30
		II	04096303114	Tanishk Gupta	83.43
		III	00996303114	Shreya Gupta	81.93
2nd Year	2013-17	I	03996303113	Shivani Dewan	81.38
		II	01396303113	Shipra	81.00
		III	00596303113	Charu	80.71

3rd Year	2012-16	I	07396303112	Swati	87.34
		II	09496303112	Chirag Khanna	84.34
		III	10096303112	Kananda	83.16
4th Year	2011-15	I	09196303111	Somya Arora	88.72
		II	10096303111	Neha Kumari	85.28
		III	08696303111	Karishma Chadha	84.39

Extra co-curricular activities:

Year	Student/Faculty Name	Awards/Recognitions
2016	Nishtha IT-2 nd year	First Position in English debate competition at ANUGOONJ 2016
2016	Garv IT-3 rd year	Indian final winner in imagine cup 2016(Microsoft)
2015	Iqbal Singh Gulati, IT- 2nd Year	Best Team award in the Rotary Club of Delhi South's Annual Inter College Debate competition
2015	Abhinav Sobti, Nikita Malik, Bhumika Gavery, JatinTaneja	3rd Prize in Project Competition (Information Technology), GGSIPU. Project Title-"Home Security"
2015	Rahul Rajpal	Participated in the "Energy and sustainability Panel at Harvard Project for Asian and International Relations (HPAIR) Manilla 2015 Asia Conference
2015	Vishakha and Nishtha	Presented Research paper "Melanoma Skin cancer detection using Image processing" in in CSI-2015 conference published by Springer.
2015	Radhika, Sristhi and Kiran	Published paper titled "WSN Protocols based on Genetic Algorithm: A Survey", in IJCSNT. Published paper titled "Optimized Genetic Algorithm for WSN", in IJFGCN.
2014	Aarushi	2nd Position in 400 meter race (Annual Sports Day)
2014	Nitin	2nd Position in Table Tennis Single(Annual Sports Day)
2014	Swati	3rd position in 400 meter Race(Annual Sports Day)
2014	Aarushi	3rd position in 800 meter race(Annual Sports Day)

2014	Sachin Nandal	3rd Position in Badminton Single(Annual Sports Day)
2014	IshaThatai	3rd position in carom Single(Annual Sports Day)
2014	JashanpreetKalra	3rd Position in Chess(Annual Sports Day)
2014	Gourav Chadha, Karan Naveen,Konica Bodh	3rd position in the Project Competition conducted by GGSIP University Project: Proposing an efficient routing protocols using wireless sensor networks
2013	Gursewak Sidhu	Gold Medal ,Table Tennis(Boys) in GGSIPU(USM 2013)
2013	Ankit Jain	1st position in IT Stream in GGSIPU
2013	Gursewak Sidhu	Gold Medal ,Table Tennis(Boys) in GGSIPU(USM 2012)
2013	Manas	3rdPosition in 100 meter Race(Annual Sports Day)
2013	Akansha Gupta	2nd position in Table Tennis Single (Annual Sports Day)
2013	Ishaan	2nd position in Chess (Annual Sports Day)
2013	Manmeet	3rd position in Discus Throw (Annual Sports Day)

24. List of eminent academicians and scientists / visitors to the department

S. No	Name	Event
1.	Prof K.L Chopra (IITD, Delhi)	FDP Emerging Trends in IT (Role of Thin Films) from 29.02.2016-04.02.2016
2.	Prof Shantanu Choudhary(Dean, UGS ,IIT Delhi)	FDP(Deep Learning Networks) from 29.02.2016-04.02.2016
3.	Ms.Upma Srivastava (Sr. IAS)	FDP Emerging Trends in IT (Ethics) in 2016
4.	Prof S.D. Joshi (IIT Delhi)	FDP Emerging Trends in IT (Mathematical Concepts) from 29.02.2016-04.02.2016
5.	Prof S.K Garg (DTU)	FDP Emerging Trends in IT in Year 2016
6.	Prof. Kehar Singh (IITD)	FDP Emerging Trends in IT (Optical Technology) from 29.02.2016-04.02.2016

7.	Prof. Arvinder Kaur (GGSIPU, Delhi)	FDP Emerging Trends in IT Software Design Techniques) from 29.02.2016-04.02.2016
8.	Prof. Daya Gupta (DTU)	FDP Emerging Trends in IT (Agile Methodology) from 29.02.2016-04.02.2016
9.	Prof. M.N Hooda (BVICAM, Delhi)	FDP Emerging Trends in IT (Technology in Teaching) from 29.02.2016-04.02.2016
10.	Dr. Sunil Kumar Khatri (Director,Amity University)	Seminar on Software Realiability on 21.03.2015
11.	Mr.KeshavJha (Senior Android Trainer ,CETPA Infotech)	Seminar on Evolution on Android Development on 12.09.2015
12.	Mr. Kamal Seth (Chief Officer Wioleta Burdzy, Human Circle)	Seminar on Entrepreneurial Outlook Development on 20.10.2015
13.	Sh. Anurag Srivastava (Quality Growth Pvt. Ltd)	FDP (7 Quality Control Tools) on 10.11.2014
14.	Mr. Ashish Arya (SOPRA Group)	Seminar on Latest Trends in IT Sector on 07.09.2013
15.	Mr. Himanshu Sharma (Bharti Airtel)	Seminar on Communication Media and Internet on 20.04.2012
16.	Dr. Vikas Nath (Jaipuria Institute of Management)	Workshop(Research Methods and Data Analysis using SPSS tool) from 09.11.2012-10.11.2012
17.	Prof. Anjana Gupta	Project Assessment and interaction with IT students
18.	Dr. Rampal Rana, (D.U)	Project Assessment and interaction with IT students
19.	Dr. Vishal Bhatnagar (GGSIPU)	Project Assessment and interaction with IT students
20.	Dr. Bijender Singh (NSIT)	Project Assessment and interaction with IT students
21.	Dr. Manjeet Singh (YMCA)	Project Assessment and interaction with IT students

25. Seminars/Conferences/Workshops organized & the source of funding

a) National b)International

Year 2015-2016

S. No.	Seminar/ Conferences /Workshop /FDP	Details	Date	Resource Person /Company	Source of Funding
1.	FDP	Emerging Trends in Information Technology	31.02.2016-04.02.2016	Prof K.L Chopra (IITD), Prof Shantanu Choudhary (Dean, UGS, IIT Delhi), Ms. Upma Srivastava (Sr. IAS) etc.	SMES
2.	Seminar	Agile ways of working in Industries	30.01.2015	Mr Ashish Chopra	No Funding
3.	Seminar	Software Reliability	21.03.2015	Dr. Sunil Kumar Khatri Director, Amity University	SMES
4.	Seminar	Evolution on Android Development	12.09.2015	Mr. Keshav Jha, Senior Android Trainer, CETPA Infotech	No Funding
5.	Seminar	Effective communication- Creating your personal branding, facing interviews, building your resume	30.09.2015	Mr. Kamal Seth, Chief Happiness Officer and Wioleta Burdzy, Human Circle	No Funding
6.	Seminar	Microsoft .NET and First Interview Tips by Industry Experts	16.10.2015	Credence Corporate Solutions	No Funding
7.	Seminar	Entrepreneurial Outlook Development	20.10.2015	Mr. Kamal Seth, Chief Happiness Officer and Wioleta Burdzy, Human Circle	No Funding
8.	Seminar	Inter college Debate on "Who plays a vital role in developing a clear/transparent society – Citizen or System?"	29.10.15	BHEL	SMES
9.	Workshop	Workshop on "Basic Internet and Cyber Security"	05.11.15	i3indya Technologies	No Funding

Year 2014-2015

S. No.	Seminar /Conferences /Workshop /FDP	Details	Date	Resource Person /Company	Source of Funding
1.	Seminar	Do's and Don't's for a Group Discussion	04.02.2014	Ms. Sanjmeet Abrol	No Funding
2.	Seminar	Preparing for Microsoft Internship Program	05.02.2014	Mr. Abhinav Sobti and Ms. shreya	No Funding
3.	Seminar	Personal Branding and Entrepreneurship	21.03.2014	Mr. M.V.Priyank	No Funding
4.	Workshop	Hack-A-Thon	12.03.2014-13.03.2014	Google developer Group(GDG)	No Funding
5.	Seminar	Current Trends and Technology	27.08.2014	CEPTA INFOTECH PVT. LTD.	No Funding
6.	Seminar	Tress and Anger Management and SWOT Analysis	16.10.2014	Mr. Brijesh	SMES
7.	Seminar	Upcoming Technologies in IT	17.11.2014	Mr. Singh	No Funding
8.	FDP	7 Quality Control Tools	10.11.2014	Sh. Anurag Srivastava Quality Growth Pvt. Ltd.	SMES

Year 2013-2014

S. No.	Seminar /Conferences /Workshop /FDP	Details	Date	Resource Person /Company	Source of Funding
1.	Seminar	Web Usage Mining	09.03.2013	Dr.Sunil Kumar Khatri Ms.ChhaviRana	SMES
2.	Seminar	Android App and its Market	14.08.2013	Monograph Publishing Pvt. Ltd.	No Funding
3.	Seminar	Microsoft Internship Preparation	29.08.2013	Ms. JashanpreetKalra	No Funding

4.	Seminar	Latest Trends in IT Sector	07.09.2013	Mr. Ashish Arya SOPRA Group	No Funding
----	---------	----------------------------	------------	--------------------------------	------------

Year 2012-2013

S. No.	Seminar /Conferences /Workshop /FDP	Details	Date	Resource Person /Company	Source of Funding
1.	Seminar	Communication Media and Internet	20.04.2012	Mr. Himanshu Sharma Bharti Airtel	No Funding
2.	Workshop	Research Methods and Data Analysis using SPSS tool	09.11.2012-10.11.2012	Dr. Vikas Nath Jaipuria Institute of Management	SMES

26. Student profile programme/course wise:

Name of the Course/programme (refer question no.4)	Batch	Applications Received	Selected	Enrolled		Pass percentage
				*M	*F	
B.TECH (IT)	2009-13	NA	NA	78	44	94.78
	2010-2014	NA	NA	75	49	100
	2011-15	NA	NA	107	36	99.20

27. Diversity of Students

Name of the Course	% of students from the Same state	%of students from Other States	% of students From abroad
B.tech 1 st year (2015-19)	83.3	16.6	0%
B.Tech 2 nd year(2014-18)	81.85	18.1	0%
B.tech 3 rd year(2013-17)	87.75	12.05	0%
B.tech 4 th year(2012-16)	86.5	13.3	0%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Year	GATE	CAT	GRE
2015	1	-	1
2014	2	1	3
2013	2	2	-

29. Student progression

Student progression	Against % enrolled	
	Batch	%
UG to PG	2013 pass out	5.08(6/118)
	2014 pass out	3.41(8/117)
	2015 pass out	5.45(6/110)
	Batch	%
PG to M.Phil.	2013 pass out	Nil
	2014 pass out	Nil
	2015 pass out	Nil
	Batch	%
PG to Ph.D.	2014 pass out	Nil
	2015 pass out	Nil
	Batch	%
Ph.D.to Post-Doctoral	2013 pass out	Nil
	2014 pass out	Nil
	2015 pass out	Nil
	Batch	%
Employed · Campus selection Other than campus recruitment	2013 pass out	(35/61)-57
	2014 pass out	(86/117)- 73.5
	2015 pass out	(76/110)-69
	Batch	%
Entrepreneurship/Self-employment	2014 pass out	2
	2015 pass out	3
	Batch	%

30. Details of Infrastructural facilities

a) Library

Departmental Library with 150 Books available for both students and faculty.

b) **Internet facilities for Staff & Students**

Internet facility is available for all staff and students. The speed of internet is 50 Mbps (1:1 contention ratio).

c) **Class rooms with ICT facility**

Usage Mode	Room no. with ICT facility(projector and audio-video aid)
Dedicated	#307
Shared	#06, #206, #406,#504,#510

d) **Laboratories:**

S. No.	Lab Name	Name of Equipment	Make	Quantity
Hardware				
1	OS/CG and Multimedia Lab (LG-06)	Computer System	Acer i5	30
		UPS	APC	30
		Flatbed Scanner	HP	1
		HP Laserjet 1020	HP	1
2	Network Programming Lab (LG-07)	Computer System	IBM Server	1
			Acer i5	30
		UPS	APC	30
		HP Laserjet 1020	HP	1
3	Programming Lab (LG--08)	Computer System	Acer i5	29
			HCL	1
		UPS	APC	30
		HP Laserjet 1020+	HP	1
4	Language Lab	Computer System	ACER	23
			HP	07
		UPS	APC	30
Software				
1	OS/CG and Multimedia Lab (LG-06)	Maya 14		30
				30
2	Network Programming Lab (LG-07)	Turbo C		30
				30
3	Programming Lab	Jdk 1.7		
		ERP LN 3.1		5
		Turbo C		29

	(LG--08)		
4	Language Lab	ORELL Language Software MS Office	30

31. Number of students receiving financial assistance from college, university, government or other agencies

Scholarship	2012-2013	2013-2014	2014-2015	2015-2016
EWS	-	05	05	08
MERIT	05	04	04	-
POST-METRIC	-	-	01	-

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Year 2015-2016

S.No.	Seminar/Workshop/ Industrial Visit	Details	Date	Resource Person/Company
1.	Seminar	Agile ways of working in Industries	30.01.2015	Mr Ashish Chopra
2.	Industrial Trip	Industrial to educational trip to Tata Motors, Jim Corbett	28.02.2015-03.03.2015	Tata- Motors
3.	Seminar	Software Reliability	21.03.2015	Dr. Sunil Kumar Khatri Director, Amity University
4.	Seminar	Evolution on Android Development	12.09.2015	Mr. Keshav Jha, Senior Android Trainer, CETPA Infotech
5.	Seminar	Effective communication- Creating your personal branding, facing interviews, building your resume	30.09.2015	Mr. Kamal Seth, Chief Happiness Officer and Wioleta Burdzy, Human Circle

6.	Seminar	Microsoft .NET and First Interview Tips by Industry Experts	16.10.2015	Credence Corporate Solutions
7.	Seminar	Entrepreneurial Outlook Development	20.10.2015	Mr. Kamal Seth, Chief Happiness Officer and Wioleta Burdzy, Human Circle
8.	Seminar	Inter college Debateon “Who plays a vital role in developing a clear/transparent society – Citizen or System?”	29.10.15	BHEL
9.	Workshop	Workshop on “Basic Internet and Cyber Security”	05.11.15	indya Technologies
10	Seminar	Vedic Mathematics	16/10/2015	Mr. Anurag Head Catalyst
11	Seminar	MBA Preparation	6/10/2015	Mr. Mayank , IMS Gaziabaad
12	Seminar	Personal Interviews	25/08/ 2015	Ms. Aarti Saxena
13	Seminar	Vocabulary Development	9/9/2015	IMS Gaziabaad

Year 2014-2015

S. No.	Seminar /Workshop /Industrial Visit	Details	Date	Resource Person/Company
1.	Seminar	Do's and Don'ts for a Group Discussions	04.02.2014	Ms. Sanjmeet Abrol
2.	Seminar	Preparing for Microsoft Internship Program	05.02.2014	Mr. Abhinav Sobti and Ms. Shreya
3.	Educational trip	Trip to center of E-Governance	28.02.2014	Mr. Sunil Kumar

4.	Seminar	Personal Branding and Entrepreneurship	21.03.2014	Mr. M.V. Priyank
5.	Workshop	Hack-A-Thon	12.03.2014-13.03.2014	Google developer Group(GDG)
6.	Seminar	Current Trends and Technology	27.08.2014	CEPTA INFOTECH PVT. LTD.
7.	Seminar	Tress and Anger Management and SWOT Analysis	16.10.2014	Mr. Brijesh
8.	Seminar	Upcoming Technologies in IT	17.11.2014	Mr. Singh
9.	FDP	7 Quality Control Tools	10.11.2014	Sh. Anurag Srivastava Quality Growth Pvt. Ltd.

Year 2013-2014

S. No.	Seminar/Workshop/ Industrial Visit	Details	Date	Resource Person/Company
1.	Industrial visit	Visit to CEPTA INFOTECH	12.03.2013	CEPTA Noida
2.	Seminar	Android App and its Market	14.08.2013	Monograph Publishing Pvt. Ltd.
3.	Seminar	Microsoft Internship Preparation	29.08.2013	Ms. Jashanpreet Kalra
4.	Seminar	Latest Trends in IT Sector	07.09.2013	Mr. Ashish Arya SOPRA Group
5.	Industrial Visit	Educational trip to C-DAC	21.09.2013 - 25.09.2013	C-DAC Mohali, Kullu, Manali

Year 2012-2013

S. No.	Seminar/Workshop/ Industrial Visit	Details	Date	Resource Person/Company
1.	Industrial Visit	Visit to Infosys	05.05.2012	Infosys Chandigarh
2.	Seminar	Communication Media and	20.04.2012	Mr. Himanshu Sharma Bharti Airtel

		Internet		
3.	Industrial Visit	Visit to CMC	24.04.2012	CMC Noida

33. Teaching methods adopted to improve student learning

- Oral Presentation
- Group Discussions
- Quiz
- Referring Internet for Demonstration(NPTEL)
- Seminars, Tutorials, Sessional (home assignments)
- Encouraging the students to present papers at Seminars/Conferences
- Guest lectures by eminent persons from Institutions/Industry
- Organizing short and long industrial study tours
- Mock Tests
- Encouraging the students to undergo internship

34. Participation in Institutional Social Responsibility(ISR) and Extension activities

Students are associated with various NGO and social society like:

- **BLOOD DONATION CAMP**
All donations to charity make a difference and nothing is comparable to donation of blood. Prakriti in association with Rotaray Blood Bank successfully organized a Blood Donation Camp in the campus of Maharaja Surajmal Institute which turned out to be a huge success. More than 300 units of blood was collected. Prior to the camp, students and staff members of MSI, MSIT, MSIP were apprised of the benefits related to blood donation by the Volunteers of Prakriti MSIT.
- **PINKATHON**
A walk initiative by Prakriti MSIT was organized to aware college peers about Breast Cancer. October was Breast Cancer Awareness Month which is an annual campaign to increase awareness of the disease. All Volunteers were dressed in pink and marched forward to bring awareness among fellows around them. While most people are aware of breast cancer, many forget to take the steps to detect the disease in its early stages. The rally was meant to encourage the policy of "Prevention is Better Than Cure".
- **BREAK THE ICE**
Prakriti welcomed all the freshers to MSIT with a small interactive event, just to make all freshers familiar with college, students, seniors and other aspects, hence breaking the ice. An interactive quiz was organized for first and second shift students. The winning teams were

awarded with cash prize arranged by the contributions of Prakriti members themselves.

- **SEVA SANDWICH**

All too often, those in need are the easiest to overlook. Busy in our lives, we hardly get time to stop & share a word of comfort. We do want to help out but we don't know where to start. Prakriti in an association with "Seva Bharti" organized a campaign as an opportunity to chat & listen to the stories of our less privileged friends while serving them with Sandwiches prepared by its members and volunteers at the Centre itself.

- **HELPING NEPAL EARTHQUAKE VICTIMS**

Prakriti believes in the fact that "Everyone Can't help everyone but everyone can help Someone". The smallest of contributions matter. PRAKRITI collected aids for the Nepal Earthquake Victims. The aids were sent through the embassy of Nepal and feed India charitable trust. Anyone could donate anything, be it clothes, blankets, eatables, medicines, water bottles etc.

- **ABHYAAS**

A paper collection drive in association with Lakshyam NGO. "We turn your bundles of waste paper into useful notebooks". With this tag line the initiative taken by the Lakshyam NGO to reuse and recycle the waste paper was fulfilled by Prakriti MSIT as a small part by collecting waste paper, magazines, etc. and sent them to the NGO to be turned into a useful manner.

- **ENVA 2016**

Prakriti celebrated its foundation day on 3rd and 4th February 2016, as ENVA 2016. Mind Sizzling events with Environmental concerns on platter were organised which were witnessed by the students of multilingual institutions from Delhi-NCR. The Event promoted the ideology of environmental concern among youth. This year, Prakriti MSIT collaborated with various NGOs and invited some underprivileged children to enjoy the fest and participate in various events. The kids from Lakshyam NGO were very talented and full of energy, as they performed a street play based on the life of women. The kids were happy getting standing ovation by the judges and appreciations by all the viewers.

35. **SWOC analysis of the department and Future plans**
Strength

- Well experienced & qualified faculty as per AICTE norms.
- Modern Infrastructure to facilitate teaching and research at par with international standards.
- Outcome Based Education Methodologies for the better assessment of quality of education and research.
- High Entry level of students.
- Continuous skill up gradation / enhancement of technicians.
- Consistent placement record in core and IT MNCs
- Enthusiastic involvement of students in extra and co-curricular activities within and outside the institution.
- Upgraded Lab Infrastructure
- Periodic Student counseling and training
- Separate computers for faculty in faculty room

Weakness

- Consultancy and interaction with industry is needed
- Less number of quality research projects and publications.
- Consultancy work needs to be improved.
- Alumni network is weak and requires regular connection.

Opportunities

- More projects with industry collaboration can be executed
- Consultancy services can be extended to local industries and organizations
- External Sponsorship for Research Activities

Challenges

- Competition from Autonomous colleges
- Fast Changing Technology
- Getting students of good quality with the increase of permissible student intake
- Deputizing more employees in Civil and Public services
- Retention of Talented Faculty is a major challenge.

Future plans

- Considerable no. of Publications in refereed journals
- More Funded projects
- Consultancy Works
- Patents

Evaluative Report of EEE Department

1. Name of the department-**Electrical and Electronics Engineering**
2. Year of Establishment-**2006**
3. Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

S.No.	Name Of the Program	Year of Establishment	Intake
1.	U.G. (B.Tech in Electrical and Electronics Engineering)	2006	60

4. Names of Interdisciplinary courses and the departments/units involved

S. No.	Interdisciplinary Courses			Name of the Department Involved
	Course	Course Code	Semester	
1.	Applied Mathematics-I	ETMA-101	I	Applied Sciences
2.	Applied Physics-I	ETPH-103	I	
3.	Manufacturing Processes	ETME-105	I	
4.	Human Values and Professional Ethics-I	ETHS-109	I	
5.	Fundamentals of Computing	ETCS-111	I	Information Technology
6.	Applied Chemistry	ETCH-113	I	Applied Sciences
7.	Applied Physics Lab-I	ETPH-151	I	
8.	Workshop Practice	ETME-155	I	
9.	Engineering Graphics Lab	ETME-157	I	
10.	Fundamentals of Computing Lab	ETCS-157	I	Information Technology
11.	Applied Chemistry Lab	ETCH-161	I	Applied Sciences
12.	Applied Mathematics-II	ETMA-102	I	
13.	Applied Physics-II	ETPH-104	II	
14.	Electronic Devices	ETEC-106	II	Electronics and Communication
15.	Introduction to Programming	ETCS-108	II	Information Technology
16.	Engineering Mechanics	ETME-110	II	Applied Sciences
17.	Communication Skills	ETHS-112	II	
18.	Environmental Studies	ETEN-114	II	

19.	Applied Physics Lab-II	ETPH-152	III	
20.	Programming Lab	ETCS-154	II	Information Technology
21.	Electronic Devices Lab	ETEC-156	II	Electronics and Communication
22.	Engineering Mechanics Lab	ETME-158	II	Applied Sciences
23.	Environmental Studies Lab	ETEN-160	II	Applied Sciences
24.	Applied Mathematics – III	ETMA-201	III	
25.	Analog Electronics-I	ETEC-203	III	Electronics and Communication
26.	Data Structures	ETCS-209	III	Information Technology
27.	Analog Electronics – I Lab	ETEC-251	III	Electronics and Communication
28.	Data Structures Lab	ETCS-255	III	Information Technology
29.	Analog Electronics–II	ETEC 204	IV	Electronics and Communication
30.	Analog Electronics-II Lab	ETEC 254	IV	
31.	Communication Skills for Professionals	ETHS 301	V	Applied Sciences
32.	Industrial Management	ETMS 311	V	
33.	Communication Skills for Professionals Lab	ETHS 351	V	
34.	Digital Signal Processing	ETEC 306	VI	Electronics and Communication
35.	VLSI Design	ETEC 308	VI	
36.	Digital Signal Processing Lab	ETEC 356	VI	
37.	Human Values and Professional Ethics-II	ETHS-402	VIII	Applied Sciences

5. Annual/semester/choice based credit system (programme wise)

Semester System

6. Participation of the department in the courses offered by other departments

S. No.	Interdisciplinary Courses			Name of Department
	Course	Course Code	Semester	
1.	Electrical Technology	ETEE-107	I	Computer Science Engineering
2.	Electrical Technology	ETEE-107	I	Information Technology
3.	Electrical Technology	ETEE-107	I	Electronics and Communication Engineering
4.	Electrical Technology Lab	ETEE-153	I	Computer Science Engineering, Information Technology, Electronics and Communication Engineering
5.	Circuits & Systems	ETEC 207	III	Computer Science

				Engineering
6.	Circuits & Systems	ETEC 205	III	Information Technology
7.	Circuits and Systems Lab	ETEE 257	III	Computer Science Engineering, Information Technology
8.	Network Analysis and Synthesis	ETEC 206	IV	Electronics and Communication Engineering
9.	Network Analysis and Synthesis Lab	ETEC 258	IV	
10.	Control Engineering – I	ETEE 208	IV	Information Technology
11.	Control Systems Lab	ETEE 260	IV	
12.	Microprocessor and Microcontroller	ETEE 310	VI	
13.	Microprocessor and Microcontroller Lab	ETEE 358		

7. Courses in collaboration with other universities, industries, foreign institutions, etc. **Nil**

8. Details of courses/programmes discontinued (if any) with reasons

Nil

9. Number of Teaching posts

	Sanctioned	Filled
Professors	01	01
Associate Professors	02	01
Asst. Professors	09	10

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.)

S. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1.	Dr. K.P. Chaudhary	Ph.D.	Professor	Optical Metrology	36 Years (CSIR)	Nil
2.	Dr. Meena Tushir	Ph.D.	Associate Professor	Control & Instrumentation	19 yrs	03 Pursuing
3.	Ms. Jyoti Jain	M.Tech	Reader/Asst. Professor	Energy Engineering	23 yrs	Nil
4.	Mr. Sunil Gupta	M.E.	Reader/Asst. Professor	Instt. & Control	13 yrs	Nil

5.	Ms. Sonia Goel	M.E.	Asst. Professor	Instt. & Control	15 Years	Nil
6.	Ms. Sapna Singh	M.Tech	Asst. Professor	Control & Instrumentation	9 Years (Teaching) 2 Years (Industrial)	Nil
7.	Ms. Anu Dagar	M.Tech	Asst. Professor	Power Electronics & Drives	6 Years	Nil
8.	Ms. Shilpam Malik	M.Tech	Asst. Professor	Power System and Drives	8Years	Nil
9.	Ms. Nidhi Gupta	M.Tech	Asst. Professor	Power Apparatus and Systems	14 Years	Nil
10.	Ms. Rakhi Kamra	M.Tech	Asst. Professor	Power Systems	12 Years	Nil
11.	Mr. Yogendra Arya	M.Tech.	Asst. Professor	Instt. & Control	5 years	Nil
12.	Ms. Mamta Rani	M.Tech	Asst. Professor	Electronics & Communication	7 years	Nil
13.	Mr. Pankaj Dhaiya	M.Tech	Asst. Professor	Instt. & Control	4.5 Years(as on 31 st Dec 2015)	Nil
14.	Ms. Monu Malik	M.Tech	Asst. Professor	Power System and Drives	7 years	Nil

11. List of senior visiting faculty

S. No.	Year	Name of the Faculty	Course	Course Code	Semester
1.	2015-2016	Dr. Bhawana	Communication Skills and Professional Ethics	ETHS 301	5 th Sem

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Nil- The Department has not any temporary faculty.

13. Student-Teacher Ratio (programme wise)

Name of Programme	Year	No. of students	No. of Faculty	STR
B.Tech (EEE)	2012-13	175	13	13.46
	2013-14	174	13	13.38
	2014-15	185	13	14.23
	2015-16	186	13	14.30

14. Number of academic support staff (technical) and administrative staff ; sanctioned and filled

Staff	Filled
Academic Support (Technical)	03

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

S. No.	Name	Qualification
1.	Dr. K.P. Chaudhary	Ph.D.
2.	Dr. Meena Tushir	Ph.D.
3.	Ms. Jyoti Jain	M.Tech, Ph.D. Pursuing
4.	Mr. Sunil Gupta	M.E., Ph.D. Pursuing
5.	Ms. Sonia Goel	M.E.
6.	Ms. Sapna Singh	M.Tech
7.	Ms. Anu Dagar	M.Tech
8.	Ms. Shilpam Malik	M.Tech, Ph.D. Pursuing
9.	Ms. Nidhi Gupta	M.Tech, Ph.D. Pursuing
10.	Ms. Rakhi Kamra	M.Tech, Ph.D. Pursuing
11.	Mr. Yogendra Arya	M.Tech., Ph.D. Pursuing
12.	Ms. Mamta Rani	M.Tech
13.	Mr. Pankaj Dhaiya	M.Tech, Ph.D. Pursuing
14.	Ms. Monu Malik	M.Tech, Ph.D. Pursuing

16. Number of faculty with ongoing projects from a)National b)International funding agencies and grants received **NIL**

17. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc. and total grants received

NIL

18. Research Centre/facility recognized by the University

On-line journal facility is available like – IEEE, Elsevier etc.

19. Publications: **Refer Annexure 1.EEE**

- * a) Publication perfaculty :
- * Number of papers published in peer reviewed journals (national / international) by faculty and students
 - *Number of publications listed in international database
 - *Monographs
 - *Chapter in books(provide details)
 - *Books edited
 - *Books with ISBN/ISSN numbers with details of publishers
 - *Citation Index
 - *SNIP
 - *SJR
 - *Impact factor
 - *h-index

20. Areas of consultancy and income generated **NIL**

21. Faculty as members in

- a)National committees b) International Committees c) Editorial Boards.

S. No.	Name of the Faculty	National committees	International Committees	Editorial Boards	Reviewer of any Committee
1.	Dr. K. P. Chaudhary	Metrology Society of India, JMSI, Surface Topography: Metrology and Properties, Nano science	TC219, APMP TCL, Travelled Globally for lectures ,training and invited talks includes:USA,Germany,France,Japan,Indonesia,Taiwan,Korea,SriLanka,Bangladesh	-	-
2.	Dr. Meena Tushir	ISTE	-	-	IET, IEEE Conference
3.	Ms. Jyoti Jain	ISTE	IEEE	-	-
4.	Mr. Sunil Gupta	-	-	-	IEEE-INDICON 2015

22. Student projects
 a) Percentage of students who have done in-house projects including inter departmental/programme

Batch	% of Students
2012 Passout	100%
2013 Passout	100%
2014 Passout	100%
2015 Passout	100%

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies. **NIL**

23. Awards/Recognitions received by faculty and students

Faculty

Dr. K.P. Chaudhary is Award winner at the CSIR foundation day celebration for patents in 2008, 2010, 2011 and 2012.

Students

Year	Curricular Activities	Extracurricular Activities Participation		Social Activities Participation	
	Prizes	Sports	Cultural	NCC	NSS
2015-16	7	7	4	-	-
2014-15	-	1	1	-	-
2013-14	-	-	1	-	-
2012-13	-	-	-	-	-

Details

S. No.	Name of student	Level: State/National/University/others	Event/Competition Name	Prize won /position	Year
1.	Soham Roy	University	Group Song(Indian), Anugoonj	2nd	2016
		Inter-college	Battle of Bands, Genesis 2015	1st	2015
		Inter-college	Beat Fusion, IEEE ASET Colossus 2014	1st	2014
		Inter-college	Group Song, Genesis	1st	2015
2.	Mayank Kataria	Inter-college	I-Robo (Aurora '16 - Delhi Technological University)	1st	2016
		Inter-college	Robomaze (Innova 2016 - Delhi Technological University)	2nd	2016
		Inter-college	Robo Soccer (Aurora '16 - Delhi Technological University)	2nd	2016
		Inter-college	Avensis 2015 (Brainstorm)	15th	2015
		Inter-college	Robo-Soccer - Innoviz'16 at Northern India Engineering College	1st	2016
		Inter-college	Robo-Soccer - Techsurge'16 at Maharaja Agrasen Institute of Technology	1st	2016
		Inter-college	Robo-Soccer - G.A.T.E.S.'16 at GTBIT	2nd	2016
3.	Bhuvanesh Kumar	National Tournament	NCR Karate Tournament Talkatora Indoor Stadium 2015	1st	2015
			Karate Championship	2nd	2015
4.	Amritpal	inter college	GGSIU cricket championship 2015	1st	2015
		inter college	Abhijit kadam memorial cricket championship, bvp	1st	2015
5.	Aashimdeep	Inter college	Tattoo making, Genesis	3rd	2016
		Inter college	Tattoo making, Genesis	3rd	2016
		Inter college	Face painting, Genesis	3rd	2015
6.	Vipul	inter college	Abhijit kadam memorial cricket championship, bvp	1st	2015
7.	Sayed Alay Aamir	inter-college	MSI & MSIT Carrom champion in single...2014	1st	2014
8.	Akhil Singh	Academics	1st year	3rd	2013
9.	Himanshu Balwada	inter-college	Dance-a-thon - Avensis	4th	2014
		sports	Tug of war-MSIT sports meet	1st	2014
		sports	Tug of war - Avensis	1st	2013
10.	Jagbandhu	University	Sports(FootBall)	2nd	2016
11.	Himanshu mishra	University	Cultural	1st	2016
12.	Piyush Kumar	University	TECHNICAL-LFR	1st	2015
		University	SPORTS-volleyball	1st	2015
13.	Prasharsh	Inter college	ENVA	3rd	2013
14.	Himanshu Garg	BPIT	Robo Socor	1st	2015

Year wise Toppers of each semester branch wise are awarded by the college for their excellence.

Year	Batch	Position	Enrolment No	Name	% of Marks (CPI %)
2011-2012	2008-12	1 st	05815004911	Nitya Mishra	87.43
		2 nd	08415004908	Mohak Gupta	84.25
		3 rd	09315004908	Nitasha Nandan	82.17
	2009-13	1 st	04415004909	Vipin Sonthalia	82.31
		2 nd	04315004909	Pooja	79.88
		3 rd	03815004909	Shivam Ahuja	78.27
	2010-14	1 st	08815004910	Ankit Vij	87.13
		2 nd	08315004910	Piyusha Pahuja	80.29
		3 rd	09015004910	Pantina Surya Savarnika	80.27
2011-15	1 st	08215004911	Juhi Ramzai	85.75	
	2 nd	04415004911	Soumya Thakur	85.13	
	3 rd	06215004911	Tushar Malhotra	83.46	
2012-2013	2009-13	1 st	04015004909	Kashish Bhutani	84.93
		2 nd	04415004909	Vipin Sonthalia	84.11
		3 rd	03815004909	Shivam Ahuja	83.22
	2010-14	1 st	08815004910	Ankit Vij	87.32
		2 nd	10615004910	Aman Narang	82.02
		3 rd	10715004910	Kushal Khurana	81.86
	2011-15	1 st	04415004911	Soumya Thakur	86.18
		2 nd	01715004911	Rashmi Rani	84.63
		3 rd	04715004911	Simranjeet Singh	81.38
2012-16	1 st	07015004912	K. Charmila	89.39	
	2 nd	05715004912	Yatin Jaie	84.02	
	3 rd	06115004912	Parmjeet Sehwat	82.61	
2013-2014	2013-17	1 st	00115004913	Rohit Gupta	80.56
		2 nd	01015004913	Harshita Gupta	78.09
		3 rd	00415004913	Swarandeep Singh Bakshi	76.69
	2012-16	1 st	06115004912	Parmjeet Sehwat	76.75
		2 nd	05815004912	Mravin Kumar Jha	74.61
		3 rd	06715004912	Manastha Garg	73.02
	2011-15	1 st	04415004911	Soumya Thakur	84.71
		2 nd	01715004911	Rashmi Rani	84.20
		3 rd	06915004911	Bimal Gupta	80.53
2010-14	1 st	08815004910	Ankit Vij	86.98	
	2 nd	09015004910	Pantina Surya Savarnika	85.11	
	3 rd	06415004910	Ashish Raj	84.38	
2014-2015	2014-18	1 st	03815004914	Karnika Pandey	81.80
		2 nd	02315004914	Shayari	80.87

				Bhattacharjee	
		3 rd	01015004914	Venu Gopal Majjari	80.06
	2013-17	1 st	00115004913	Rohit Gupta	86.23
		2 nd	00615004913	K. Ishwar	79.79
		3 rd	00315004913	Navjeet Singh	78.27
	2012-16	1 st	04715004912	Shilpa Gahlyan	80.80
		2 nd	08815004912	Anish Sharma	80.66
		3 rd	06115004912	Parmjeet Sehrawat	78.32
	2011-15	1 st	04415004911	Somya Thakur	90.07
		2 nd	01715004911	Rashmi Rani	86.38
		3 rd	06915004911	Bimal Gupta	83.16

* Ankit Vij (2014) student of EEE was awarded as the gold medalist by the IP University in 2014.

Project

Year	Event	Position	Name of Students	Project
2015	Techexpo-2015	Second	Mr. Gaurav Gupta	Building Automation using SCADA
			Mr. Gautam Kumar	
			Mr. Amit Kumar	
			Mr. Abhishek Bhardwaj	

24. List of eminent academicians and scientists / visitors to the department

S. No.	Name of Academician	Designation and Organisation	Purpose	Date of Visit
1.	Mr. Sanjay Srivastava	Bechtel India Pvt. Ltd.	Solar Power Projects	15 th March, 2013
2.	Mr. V.K.Saini	Max Academy	Prospectus of Summer Training	21 st March, 2013
3.	Mr. Mridul Gupta	C&S Electrical	Switchgear & its Protection	4 th Oct,2013
4.	Mr. Vishal Puri & Mr. Dharamveer Singh	Arise India Pvt. Ltd.	Inverter Converter Applications	12 th Nov, 2013
5.	Mr. Mahesh Gupta	Eriscon India Pvt. Ltd.	Real World; The Role of Electrical and Electronics Engg. in Telecomm Industry	26 th Nov, 2014

25.Seminars/Conferences/Workshops organized & the source of funding

Year	Event Description	Date	Target Audience	Resource Persons	Funded By	Usage and Citations etc
2012	Intelligent Tools for Various Engineering Applications	9 th - 10 th April 2012	EEE Faculty	Prof. Smiriti Srivastava, NSIT Dr. Madhu Sudan Singh, DTU Mr. Saurabh Bhardwaj, NSIT	SMES	Emerging Technologies
2013	Seminar on Solar Power Projects	15 th March, 2013	5th/7th	Mr. Sanjay Srivastava, Beehtel India Pvt. Ltd.	MSIT	Solar Plants
	Prospectus of Summer Training	21 st March, 2013	4 th /6 th	Mr. V.K.Saina, Max Academy	MSIT	Summer Training
	Mock Interview	Aug 30, 2013	7th	Er. Romil Kumar	MSIT	Placement Preparation
	Mock Interview	27-Sep-13	7th	Sh. B.D. Prasad	MSIT	Placement Preparation
	Mock Interview	16th April, 2014	8th	Mr. V.K. Saina	MSIT	Placement Preparation
	Seminar on Switchgear & its Protection	4th Oct, 2013	3rd/5th/7th	Mr. Mridul Gupta, C&S Electrical	MSIT	Switchgear & its Protection
	Seminar on Industrial Automation	21st Oct, 2013	3rd/5th/7th	Sofcon India Pvt. Ltd	Free	Industrial Automation
	Seminar on Inverter Converter Applications	12th Nov, 2013	3rd/5th/7th	Mr. Vishal Puri & Mr. Dharamveer Singh, Arise India Pvt. Ltd.	MSIT	Inverter Converter Applications
	Seminar on Autocad	3rd Feb, 2013	7th	CADD Center	Free	Autocad
2014	Seminar on Emerging Opportunities for EEE students	30th April, 2014	ECE 7th sem	Mr. Pradeep Joshi, Mr. Bhanu Prasad, Dr. SuKumar	MSIT	Emerging Opportunities for EEE
	Seminar on Real World; The Role of Electrical and Electronics Engg. in Telecomm Industry	26th Nov, 2014	3rd/5th/7th EEE & 7th ECE	Mr. Mahesh Gupta, Eriscon India Pvt. Ltd.	MSIT	The Role of Electrical and Electronics Engg. in Telecomm Industry
	Seminar on	13th	5th/7th	Basics of Grid connected	MSIT	Grid Working

	Basics of Grid	oct,2014		and OFF Grid Solar Solutions		
2015	Seminar on Industrial Automation	11th sept, 2015	5th	Cepta India Pvt .Ltd	Free	Industrial Automation
	Workshop On PLC	16th Oct, 2015	5th	Futuronix	MSIT	PLC
	Seminar on Industrial Automation	18 th March 2015	6th	Sofcon India Pvt Ltd.	Free	Industrial Automation
	FDP on 'Research Challenges & Emerging trends in Electrical Engg.'	25 th Feb 2015	EEE Faculty	Prof. Smiriti Srivastava, NSIT Prof. Su Kumar Mishra, IITD Prof. Rachna Garg, DTU	MSIT	Emerging Technologies
2016	Seminar on New Technologies (Li-Fi, Technology, Raspberry Pi)	17 th Feb 2016	6th	TIMTS	MSIT	Li-Fi, Technology, Raspberry Pi
	Workshop on Embedded Systems	10 th March 2016	4th/6th	Radiance Edutech	MSIT	Embedded Systems
	Workshop on PLC & SCADA	17 th March 2016	4th/6th	Cepta India Pvt .Ltd	MSIT	PLC & SCADA

26. Student profile programme/course wise:

Name of the Course/programme (refer question no.4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
EEE/2008-12	Not Applicable**	58	50	08	93.10
EEE/2009-13	Not Applicable**	57	46	11	96.49
EEE/2010-14	Not Applicable**	51	44	7	98.03
EEE/2011-15	Not Applicable**	58	54	5	94.82

**Admission through CET conducted by GGSIP University.

27. Diversity of Students

Name of the Course	Year	% of Students From the Same state	% of students From other States	% of students from abroad
EEE	2015	84.37	15.62	-
EEE	2014	87.30	12.69	-
EEE	2013	87.5	12.5	-
EEE	2012	83.33	13.33	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Name of the Examination	2016-2015	2015-2011	2014-2010	2013-2009	2012-2008
GRE	-	-	1	1	-
TOFEL	-	-	-	-	-
GMAT	-	-	-	-	-
CAT	-	-	-	1	-
GATE	5	2	-	1	-
Defence Services	1	1	2	2	-
Other Services	-	1	2	3	-

29. Student progression

Student progression	Against % enrolled
UG to PG	*List Attached Below
PG to M.Phil.	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
Employed	
• Campus selection	*List Attached Below
• Other than campus recruitment	*List Attached Below

Entrepreneurship/Self-employment	*List Attached Below
----------------------------------	----------------------

UG-PG

Year of Pass Out	No. of Students	Against % enrolled
2013	6	10.9
2014	1	1.8
2015	Nil	Nil

Employed (Campus selection)

Year of Pass Out	No. of Students	Against % enrolled
2013	12	21.05
2014	26	49.05
2015	20	31.74
2016	31	53.44

Other than campus recruitment

Year of Pass Out	No. of Students	Against % enrolled
2013	7	12.28
2014	5	9.4
2015	3	4.76
2016	NA	NA

Entrepreneurship/Self-employment

Year of Pass Out	No. of Students	Against % enrolled
2013	4	7.01
2014	2	3.77
2015	2	3.17

As EEE is a core branch, students are more interested in PSUs and Govt. Jobs. Most of the students are preparing competitive exams.

30. Details of Infra structural facilities

- a) Library – Departmental Library has **210** books available.
- b) Internet facilities for Staff & Students **Available (50 Mbps)**
- c) Classrooms with ICT facility

Usage Mode	Room no. with ICT Facility
Dedicated	#405
Shared	#06, #206, #406

d) Laboratories

The department has well equipped laboratories with state of the art equipments and software's

S. No.	Name of the Laboratory
1.	Sensors and Transducers
2.	Electrical & Electronics Measuring Instruments
3.	Electric Drives
4.	Soft Computing/
5.	Electrical Technology
6.	Circuit and Systems
7.	Power Systems
8.	Electrical Machines
9.	Advanced Control Systems
10.	Power Electronics
11.	Utilization of Electrical and Electronics
12.	Scientific Computing

31. Number of students receiving financial assistance from college, university, government or other agencies

Scholarship	2012-2013	2013-2014	2014-2015	2015-2016
EWS	-	02	03	03
MERIT	01	02	07	-
POST-METRIC	-	-	04	-

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

S. No.	Details	Date	Target Audience	Resource Person
1	Visit to Arise India Ltd., Sonapat (Haryana)	28 th Aug , 2012	5 th	Arise India Pvt. Ltd. Sonapat (Haryana)
2	Visit to 220KV Grid Substation Dwarka DTL	18 th Feb, 2013	4 th	220KV Grid Substation, Pappankalan, Dwarka
3	Visit to NPTI, Badarpur	4 th March, 2013	6 th /4 th	NPTI, Badarpur
4	Seminar on Solar Power Projects	15 th March, 2013	5 th /7 th	Mr. Sanjay Srivastava, Bechtel India Pvt. Ltd.
5	Visit to GRIDTECH2013	4 th April, 2013	6 th /4 th	Grid-Tech, Pragati Maidan ,New Delhi
6	Visit to AD Hydro Power Plant, Kulu Manali	7 th April, 11 th April, 2013	6 th /4 th	Allain Duhangan Hydro Power Plant, Kulu Manali
7	Visit to IIT Delhi Open House	20 th April, 13	6 th /4 th	IIT Delhi
8	Prospectus of Summer Training	21 st March, 2013	4 th / 6 th	Mr. V.K.Saina,Max Academy
9	Mock Interview	Aug 30,2013	7 th	Er. Romil Kumar
10	Mock Interview	27-Sep-13	7 th	Sh. B.D. Prasad
11	Mock Interview	16 th April, 2014	8 th	Mr. V. K. Saina
12	Seminar on Switchgear & its Protection	4 th Oct,2013	3 rd /5 th /7 th	Mr. Mridul Gupta, C&S Electrical
13	Seminar on Industrial Automation	21 st Oct, 2013	3 rd /5 th /7 th	Sofcon India Pvt. Ltd
14	Seminar on Inverter Converter Applications	12 th Nov, 2013	3 rd /5 th /7 th	Mr Vishal Puri & Mr. Dharamveer Singh, Arise India Pvt. Ltd.
15	Seminar on Autocad	3 rd Feb, 2013	7 th	CADD Center
16	Seminar on Emerging Opportunities for EEE students	30 th April, 2014	ECE 7 th sem, EEE 7 th sem	Mr. Pradeep Joshi, Mr. Bhanu Prasad, Dr. Su Kumar
17	Visit to 220 KV, Pappankalan	11 th Feb, 2014	4 th	220KV Grid Substation, Pappankalan, Dwarka
18	Visit to 220KV GIS, Peeragarhi	28 th April, 2014	6 th	220KV GIS, Peeragarhi
19	Visit to Arise, Sonapat	1 st Marsh, 2014	4 th	Arise India Pvt. Ltd. Sonapat (Haryana)
20	Visit to Rajghat Power House	Aug 30,2013	5 th	Raghat Power House, ITO, New Delhi
21	Visit to Solar Power Plant, Gurgaon	25 th Nov,14	5 th /7 th	Solar Power Installation ,Ansal API

22	Seminar on Real world	26th Nov, 2014	3rd/5th/7th EEE & 7th ECE	Mr. Mahesh Gupta, Eriscon India Pvt. Ltd.
23	Seminar on Basics of Grid	13th oct,2014	5th/7 th	Basics of Grid connected and OFF Grid Solar Solutions
24	Visit to 21st IETF	29th Oct & 30th oct,2014	4th/6 th	Grid Tech
25	Visit to Grid Tech 2015	27th Feb, 2015	6 th	Grid Tech
26	Avensis 2015	Conducted Annually	Faculty & Students	Technical Fest
27	Genesis 2015	Conducted Annually	Faculty & Students	Cultural Fest
28	Visit to Ambuja Cement	8th April, 2015	4th/6 th	Ambuja Cement
29	Visit to 220KV pappankalan	14th Sept, 2015	5 th	DTL (Delhi Transco Ltd.)
30	Visit to JayPee Cement Plant	24-27th Oct, 2015	3 rd	Jay Pee Cement Plant
31	TedX Event	21 st October	All Students	Mega Event with no. of eminent speakers
32	Seminar on Industrial Automation	11th sept, 2015	5 th	Cepta India Pvt .Ltd
33	Workshop On PLC	16th Oct, 2015	5 th	Futuronix

33. Teaching methods adopted to improve student learning

- Power Point Presentation
- Group Discussions
- Quiz Program
- Referring Internet for Demonstration(NPTEL)
- Seminars, Tutorials, Sessional (home assignments)
- Encouraging the students to present papers at Seminars/Conferences
- Guest lectures by eminent persons from Institutions/Industry
- Organizing short and long industrial study tours
- Encouraging the students to undergo internship

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Students are associated with various NGO and social society, NSS and various activities initiated by government of India like skill development, Beti Bachao ,Beti Padhao, Swach Bharat Abhiyan, Make in India Mission. Some of the activities include:

- International Yoga Day is celebrated in the college.
- Summer Camp is organized for the students (Free of Cost) from nearby villages to enhance their social and technical skills
- Blood Donation Camp being organized by NGO like Rotaract in the Institution
- Tree plantation programme is also organized
- A magazine named Suraj Sujan is published every month by the society.
- Environmental club “Prakriti” of the college organizes various activities related to energy saving.
- Swacch Bharat is also promoted in college.

35. SWOC analysis of the department and Future plans

Strengths:

- Well experienced & qualified faculty as per AICTE norms.
- Modern Infrastructure to facilitate teaching and research at par with international standards.
- Outcome Based Education Methodologies for the better assessment of quality of education and research.
- Enthusiastic involvement of students in extra and co-curricular activities within and outside the institution.
- The department has Laboratories facilitated with state-of-the-art equipment.
- Latest software packages made available for the students to carry out projects and for the faculty to carry out their research work.
- Very high Faculty retention rate.
- Various methodologies followed for the better assessment of quality of education and research.

Weaknesses:

- Unable to extend consultancy services.

Opportunities:

- Curriculum and syllabus framed in such a way that the students have the opportunity to be placed in core companies.

- Students were participated in many co-curricular and extra-curricular activities in the campus to improve the communication skills and leadership qualities.
- Placement training programmes, GATE Coaching and counseling organized within the campus regularly for the career guidance of the students.
- Faculties are allowed to upgrade the skills by attending Faculty Development Programs, summer schools, winter schools and conferences in reputed institutions.
- Availability of access to e-Journals, Video courses and Lab facilities.
- Potential to pursue Doctoral and Post Doctoral research for the faculty.

Challenges:

- Motivation to weak students for academics and soft skills.
- Excellent Campus placements.

Future plans of the department.

- To develop department as a centre of excellence
- To offer courses in collaboration with industries.
- To conduct National & International conferences in thrust areas of Electrical & Electrical Engineering.
- To improve number of papers published in reputed Journals/conferences.



Maharaja Surajmal Institute of Technology

ISO 9001:2008 Certified

(Approved by AICTE & Affiliated to Guru Gobind Singh Indraprastha University)

C-4, Janak Puri, New Delhi - 110058 Phones : 25528116/7, 25552667
Telefax : 91-11-25528116 E-mail : director@msit.in Website : www.msit.in

Ref. No. MSIT/182

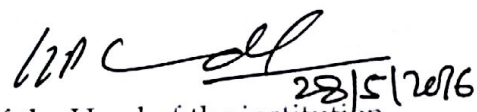
Dated 28/5/16

Declaration by the Head of the Institution

I certify that the data included in this Self-study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the peer team will validate the information provided in this SSR during the peer team visit.



Signature of the Head of the institution

with seal:

Place: 28/5/16

Date: New Delhi



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. North-West/1-2813826661/2016/EOA

Date: 05-Apr-2016

To,

The Principal Secretary
(Higher & Technical Education)
Muni Maya Ram Marg,
Pitam pura, Pitam Pura,
Near T V. Tower, Delhi-110088

Sub: Extension of approval for the academic year 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	North-West	Application Id	1-2813826661
Name of the Institute	MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY	Permanent Id	1-6813821
Name of the Society/Trust	SURAJMAL MEMORIAL EDUCATION SOCIETY	Institute Address	MSIT C-4 JANAKPURI NEW DELHI- 110058, NEW DELHI, NORTH WEST DELHI, Delhi, 110058
Institute Type	Unaided - Private	Society/Trust Address	MSIT C-4 JANAK PURI , NEW DELHI 110058,NEW DELHI,NEW DELHI,Delhi,110085

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2813826661			Course	Full/Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	PIO / FN / Gulf quota Approval status	Foreign Collaboration/Twinning Program Approval status*
Program	Shift	Level								
ENGINEERIN	1st Shift	UND ER	COMPUTER SCIENCE AND	FULL TIME	Guru Gobind Singh	120	120	NA	NA	NA



G AND TECHNOLOGY		GRADUATE	ENGINEERING		Indraprastha Vishwavidyalaya, New Delhi					
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Guru Gobind Singh Indraprastha Vishwavidyalaya, New Delhi	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	ELECTRONICS & COMMUNICATION ENGG	FULL TIME	Guru Gobind Singh Indraprastha Vishwavidyalaya, New Delhi	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	INFORMATION TECHNOLOGY	FULL TIME	Guru Gobind Singh Indraprastha Vishwavidyalaya, New Delhi	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	2nd Shift	UNDERGRADUATE	COMPUTER SCIENCE & ENGINEERING	FULL TIME	Guru Gobind Singh Indraprastha University, Delhi	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	2nd Shift	UNDERGRADUATE	ELECTRONICS & COMMUNICATION ENGG	FULL TIME	Guru Gobind Singh Indraprastha University, Delhi	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	2nd Shift	UNDERGRADUATE	INFORMATION TECHNOLOGY	FULL TIME	Guru Gobind Singh Indraprastha University, Delhi	60	60	NA	NA	NA

The above mentioned approval is subject to the condition that MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Dr. Avinash S Pant



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Vice - Chairman, AICTE

Copy to:

1. **The Regional Officer,**
All India Council for Technical Education
Plot No. 1A, 5th Floor, DTE(Pb..) Building,
Dakshin Mark, Sector 36-A, Chandigarh-160 036
2. **The Director Of Technical Education,**
Delhi
3. **The Registrar,**
Guru Gobind Singh Indraprastha University, Delhi
4. **The Principal / Director,**
MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY
MSIT
C-4 JANAKPURI
NEW DELHI- 110058,
NEW DELHI,NORTH WEST DELHI,
Delhi,110058
5. **The Secretary / Chairman,**
SURAJMAL MEMORIAL EDUCATION SOCIETY
MSIT
C-4 JANAK PURI ,
NEW DELHI 110058,
NEW DELHI,NEW DELHI,
Delhi,110085
6. **Guard File(AICTE)**