ANNUAL QUALITY ASSURANCE REPORT (AQAR)

2017-18

Submitted by

The Internal Quality Assurance Cell (IQAC)

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

August 2018

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The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. ***(Academic Year July 1, 2017 to June 30, 2018)***

Part – A

1. Details of the Institution

1.1 **Name of the Institution** : **Madhav Institute of Technology & Science**

1.2 **Address Line 1** : **Race Course Road,**

Address Line 2 : **Gola Ka Mandir**

City/Town : **Gwalior**

State : **M.P.**

Pin Code : **474 005**

Institution e-mail address : **infomitsgwl@gmail.com**

director@mitsgwalior.in

Contact Nos. : **0751-2409354**

Name of the Head of the Institution : **Dr. R.K. Pandit**

Tel. No. with STD Code : **0751-2409354**

Mobile :

Name of the IQAC Co-ordinator : **Dr. Pratesh Jayaswal**

Mobile : **9826561725**

IQAC e-mail address : **iqac@mitsgwalior.in**

1.3 **NAAC Track ID** ***(For ex. MHCOGN 18879)***: **MPCOGN24901 dated 26/6/2015**

1.4 **NAAC Executive Committee No. & Date** : **EC(SC)/27/A&A/61.1 dated 12-09-2017**

1.5 **Website address** : **www.mitsgwalior.in**

Web-link of the AQAR : **http://mitsgwalior.in/IQAC/AQAR2017-18.pdf**

1.6 **Accreditation Details**

S. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1.	1st Cycle	B++	2.89	-	12-09-2017 to 11-09-2022

1.7 **Date of Establishment of IQAC : 27/12/2016**

1.8 **AQAR for the year *(for example 2010-11)* : 2017-18**

1.9 **Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*(for example AQAR 2010-11submitted to NAAC on 12-10-2011)* N.A.**

1.10 **Institutional Status**

University State ☐ Central ☐ Deemed ☐ Private ☐

Affiliated College Yes ☑ No ☐

Constituent College Yes ☐ No ☑

Autonomous college of UGC Yes ☑ No ☐

Regulatory Agency approved Institution Yes ☑ No ☐

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education ☑ Men ☐ Women ☐

Urban ☑ Rural ☐ Tribal ☐

Financial Status Grant-in-aid ☐ UGC 2(f) ☐ UGC 12B ☐

Grant-in-aid + Self Financing ☑ Totally Self-financing ☐

11 **Type of Faculty/Programme**

Arts ☐ Science ☐ Commerce ☐ Law ☐ PEI (Phys Edu) ☐

TEI (Edu) ☐ Engineering ☑ Health Science ☐ Management ☐

Others (Specify) **Architecture, Masters in Computer Applications, Masters in Urban Planning**

1.12 **Name of the Affiliating University** ***(for the Colleges)*** **Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

1.13 **Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc**

Autonomy by State/Central Govt. / University : None

2. IQAC Composition and Activities

2.1 **No. of Teachers**	**05**
2.2 **No. of Administrative/Technical staff**	**07**
2.3 **No. of students**	**02**
2.4 **No. of Management representatives**	**02**
2.5 **No. of Alumni**	**03**
2. 6 **No. of any other stakeholder and community representatives**	**01**
2.7 **No. of Employers/ Industrialists**	**02**
2.8 **No. of other External Experts**	**02**
2.9 **Total No. of members**	**26 Including Director & Coordinator**

2.10 **No. of IQAC meetings held : 03 (Dates: 19.08.2017, 24.02.2018, 30.05.2018)**

2.11 **No. of meetings with various stakeholders:** No. **48** Faculty **17**

Non-Teaching Staff Students **01** Alumni - Others **30**

2.12 **Has IQAC received any funding from UGC during the year?** Yes [✓] No [ ]

If yes, mention the amount | **In Process** | **Proposal submitted on 27-04-2018 for Rs. 24.96 Lacs to UGC.**

2.13 **Seminars and Conferences (only quality related)**

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.	**03**	International	-	National	**01**	State	-	Institution Level	**02**

(ii) Themes

1. **One-week AICTE sponsored QIP-STC on "Assuring Global Quality in Technical Education through Outcome Based Education" under IQAC at MITS, Gwalior from 10th -14th March 2018. (at National Level)**
2. **Two-day workshop on "Effective Techniques of Question Paper Setting-An OBE Approach" organized under the IQAC at MITS, Gwalior during 7th -8th February 2018 (Institute Level; for OBE coordinators, 02 faculty members from each department)**
3. **Interactive Workshop on "Requirements & Preparation for 2nd Cycle Accreditation by NAAC" on 23rd February 2018 under the IQAC. (For the faculty of the Institute)**

2.14 **Significant Activities and contributions made by IQAC**

The following important decisions were taken by the IQAC, guidelines were issues and compliance was sought to ensure effective implementation. The initiatives were taken as follows:

1. Flexible Academic Curriculum :

- It was deliberated that a flexible academic curriculum should be implemented w.e.f. Academic Year 2018-19 and there should be provision for credit transfer through MOOCs.
- The Flexible Scheme for the Flexible Curriculum was framed by the Institute and approved by the Academic Council.

2. Academic Audit :

- It was decided that two Academic Audits should be conducted every year, one by Internal Audit Committee (IAC) and one by external experts.
- In compliance to the decision, the Academic Audits by Internal Audit Committee were conducted on 18th February 2017 (24-parameters) & 5th August 2017 (12-lab parameters).
- The IAC and two external experts (Dr. Susheel Kumar, Former Professor, Civil Engineering, MANIT, Bhopal & Dr. J.S. Chauhan, Director SATI, Vidisha) conducted academic audit on 17th February 2018 on a revised 30-point format addressing all the important teaching-learning parameters.

3. Feedback Collection and Analysis :

- The feedback was collected from students, on-line, w.e.f. January-June 2018 Semester. It is collected ***twice*** in a semester, analysed and appropriate corrective actions taken.
- A uniform model and comprehensive summary of the feedback analysis and action taken for each department has been prepared for the analysis of feedback.

- A ***Faculty Feedback Index (FFI)*** has been computed for each faculty on a scale of 5 (five) by taking weighted average of student responses in 5 classes (Excellent, Very Good, Good, Average & Below Average) for 14 (Fourteen) criteria
- Based on the index, (i) areas of appreciation and (ii) areas needing improvement are communicated to each faculty by the concerned Head of the Department.
- It is decided that appreciation letter/awards will be given to faculty members who get very good feedback.

4. MITS-MOODLE :

The MITS-MOODLE was launched on the 15th of August 2017 for providing an e-learning environment for interactive teaching, learning and evaluation for students and faculty.

- All the 4600 plus students, faculty members and staff are registered on it.
- A team consisting of 34 faculty members from various departments has been constituted to coordinate the following activities at the department level:
  - ✓ On-line quiz conduction
  - ✓ Direct/indirect assessment of course outcomes (COs), Programme outcomes (POs) and Programme Educational Objectives (PEOs).
  - ✓ Feedback and its analysis
  - ✓ Uploading lecture notes /Assignments/Tutorial Sheets/Question Banks
  - ✓ On-line assessment of assignments
  - ✓ Dissemination of any other academic information
- Between 15th to 22nd December 2018 on-line quiz using MOODLE was conducted for all I year students for trial purpose. In January-April 2018 Session, on-line quiz was conducted for all the students.
  - ✓ Feedback was taken on COs and Curriculum
  - ✓ The quiz performance was analysed student wise, course wise, question wise
- The CO attainment (Direct +Indirect) for July-December 17 & January-April 2018 Semester has already been computed using MOODLE.
- The attainment of Programme Outcomes (POs) & Programme Educational Objectives (PEOs) for academic year July17-June 18 is currently being computed using MOODLE.
- GET (General Enterprising Tendency) test was conducted for all the students of the Institute for identifying students with entrepreneurial mind set for further grooming.
- The course entitled "**Sustainability in Built Environment**" under Global Initiative of Academic Network **(GIAN),** an initiative of Human Resource Development, Govt. of India during 19th-30th March 2018 was totally conducted (delivered and evaluated) on MOODLE.

5. Implementation of On-line Learning Through Platforms such as SWAYAM :

- The NPTEL (National Programme on Technology Enhanced Learning) Local Chapter became functional from 30th Oct. 2017 to provide e-learning through on line Web and Video courses.
- One SWAYAM Manager and a team of SWAYAM coordinators appointed to monitor and motivate students for self-learning.
- The students of II and III year were registered for one SWAYAM course compulsorily, in the January-May 2018 session against self-study/seminar courses in curriculum.
- Subject Matter Experts (SMEs) were assigned to guide and monitor the progress of students.
- The MITS Chapter secured a position in top 100 SWAYAM-NPTEL Local Chapters (87th position) for the Jan to April, 2018 semester.

6. Result Analysis and Corrective Measures for Improvement :

- The result analysis was performed and the courses for which the pass percentage was not up to mark were identified; the findings were communicated to the concerned departments to propose/implement necessary corrective measures.
- The departments have submitted a report on corrective measures to be taken.

- An overall faculty coordinator and one faculty In-charge from each department has been appointed to take steps to increase the attendance in remedial/Bridge classes.
  The duty of this team is to
  - ✓ Prepare time table for the above classes/ monitor and maintain attendance
  - ✓ Identify and motivate all the backlog and less privileged students/ to attend classes
  - ✓ Provide necessary counselling and guidance to them by conducting a few sessions
  - ✓ Take all necessary steps to bring these students in the main stream
  - ✓ Solve problems related to examination

7. Initiatives for Academically Weaker Students :

- It was decided to put in place a mechanism to improve student performance and to reduce failure rate through effective conduction of remedial/performance improvement classes.
- One Professor is appointed as In-Charge with a team of 12 faculty coordinators at the department level for attendance monitored on weekly basis. The fast learners were also motivated to guide the slow learners.
- Students needing special attention were identified, course and department wise.
- The team provided necessary counselling to students and helped in solving their problems.
- The overall percentage of students who attended these classes in January-April 2018 session is about 26% which is expected to improve in the next semester.

8. Examination Reforms :

- ***Digitization of valuation:*** It was decided that Answer Books of end-term examination should also be shown to the students to maintain transparency and credibility.
  The digitization of answer books and digital valuation for First Year students was started from April-May 2018 examination.
  The valued answer books were shown to the students.
- ***Displaying Model Answer Sheet****: Model answer sheet is being prepared by the faculty members on the day of the examination and it is uploaded on MOODLE on the same day, so that students can review their performance.*
- ***Integrated valuation****: On a pilot basis, a few M.E./M.Tech papers are being evaluated by multiple valuers in the ongoing April-May 2018 examination.*
- ***On-line question paper feedback****: On-line question paper feedback is taken till 6.0 pm on the day of the examination to get students' opinion on the difficulty level, quality of the question paper and to know about discrepancies if any*

9. Administrative Audit :

- It was decided that an Administrative Audit should be conducted once every year.
- Administrative Audit was conducted on 22nd Feb. 2018 for following supporting departments: General Office, HR / Establishment, Security, Housekeeping / Guest House / Garden, EDC, Dispensary, Hostels
- Corrective actions were taken based on the report for improving the systems at the above departments.

10. Revision of Honorarium for Paper Setting/Checking/Conducting Practical Examinations in MITS-Autonomy :

- On the basis of recommendations of a duly constituted committee, the honorarium to external examiners for conducting practical viva-voce examination has been doubled and for evaluating UG student projects has also been substantially raised.
- The honorarium to external and internal examiners for evaluating PG dissertations has been brought at par.

11. Full Time Ph.D. Fellowship and Promotion of Research Culture in the Institute :

- It was decided that full time Ph.D. fellowship should be started in the Institute.
- Norms for providing Research Associate (RA) fellowships with financial assistance from TEQIP-III in eligible departments have been formed and the programme will be started from Academic Session 2018-19.
- The All India Council of Technical Education (AICTE) has recognized the Institute as a research centre for **National Doctoral Fellowship (NDF) Programme** w.e.f. Academic session 2018-19.
- Financial support for research project will be provided to the identified proposals submitted by faculty members w.e.f. Academic session 2018-19.

12. Initiatives Taken for Increasing Effectiveness of Outcome Based Education (OBE) :

- To increase the effectiveness of learner centric environment, the institute has appointed Outcome Based Education (OBE) coordinators at institute and department levels.
- OBE student groups are also formed for effective involvement of the students in the process
- The IQAC conducted one-week short term course (STC) on OBE in March 2018.
- A two-day workshop on OBE in collaboration with NPIU was also conducted for all the faculty members of the institute in March 2018.
- It was decided that question paper setting has to be based on Course Outcomes (COs)
- Guidelines were prepared for paper setters regarding difficulty level, distribution of marks, and for aligning question paper with Revised Bloom's Taxonomy.
- To train faculty members, two-day 5 workshop on "Effective techniques of Question Paper Setting-An OBE Approach" was organized during 7^{th}-8^{th} February 2018.
- To apprise all stakeholders about the OBE process, syllabi with COs will be uploaded on the Institute website.
- With effect from May-June 2018 examination the questions papers are being set based on Course Outcomes (COs).
- Attainments of COs, POs and PEOs are being computed using direct and indirect assessment using MOODLE.

13. Financial Support to Meritorious Students from Economically Weaker Sections :

- A faculty coordinator is appointed to coordinate activities and to create a fund for partially supporting deserving, meritorious students belonging to economically weaker sections of society.
- For generating fund for this efforts are being made to get assistance through
  - ✓ The Corporate Social Responsibility (CSR) fund of leading public sector companies
  - ✓ The Alumni (Alumni already come forward with offer to support two students)
  - ✓ Social contributions/donations

14. Enhancing Collaboration with Other Institutions/Organizations :

- Abhigyan Abhikaushalam Students' Forum (AASF) in collaboration with ABV-IIITM has been started (MoUs signed) for collaborating and conducting inter-institute events and knowledge sharing among students.
- The Institute is collaborating with PDPM Indian Institute of Information Technology Design & Manufacturing (IIITDM), Jabalpur under the Electronics & ICT Academy (an initiative of Ministry of Electronics and Information Technology, Govt. of India) for conducting Joint Faculty Development Programmes.
- As a consequence, Institute will be recognized as Nodal (Remote) Center of Electronics & ICT Academy PDPM IIITDM Jabalpur. Under this collaboration, different training programmes/courses relating to emerging interdisciplinary trends/areas will be organized.
  In the near future, it is proposed to organize following summer programmes
  - ✓ ANN and Deep Learning (11-15 June 2018)
  - ✓ Internet of Things (IoT) (18-22 June 2018)

- The Institute has become a partner under the initiative Called "Making Deep Learning and AI skills mainstream in India by "**Royal Academy of Engineering, UK**" to fulfil trilateral needs of entrepreneurship, Industry-Academia partnership and application-inspired Engineering Research".
  - ✓ As a Partner, Faculty members and students of MITS Gwalior will be trained on the aspects relating to AI and deep learning technologies with the opportunity to work at Supercomputing lab of Bennett University.
  - ✓ Moreover, students will be offered internship opportunity based on selection criteria

15. Events & Activities Conducted by Professional Society Chapters/Students Clubs :

A total of 86 activities were conducted in the Academic Year 2017-18 by the various Student Clubs, Professional Society Chapters and under Sports.

The following activities were organized in collaboration with other institutes.

- ***Chimera X: A zonal level Quiz Contest organized with ISTE- MANIT Bhopal***
- ***Pan India Quiz Contest JQL-2017 in collaboration with Jaipuria Institute of Management, Indore***
- ***Workshop on ANSYS Workbench & Android App Development in association with Emotech Software Solution Pvt Ltd, City Centre, Gwalior***

16. The Initiatives Taken for Up-gradation of the IT Infrastructure :

The institute has augmented the IT infrastructure by procuring separate servers for:

- **Data Centre:** to store various information about the Institute staff, academic related information, various documents in digitized form
- **IMS:** To store confidential examination data of the students
- For Massive Open Online Courses, Account of students/staff, Lectures, assignment etc
- **Proxy Server** - To distribute controlled and monitored internet in the Institute.
- **Telnet server** - to store various software that can be downloaded from anywhere in the LAN of the Institute
- **Linux Server** - To provide programming support for the students of the Institute

17. Institutional Values & Social Responsibility :

- The IQAC is constantly promoting collaborative workshops on gender Sensitization, Woman Empowerment, Various Awareness Programmes, Blood Donation Camps, Students Counselling & Motivation are being conducted regularly with different organizations.

  A total of 21 activities have been conducted by the NSS team and all II year students (for whom it is mandatory to join NSS), some of which are

  - ✓ ***Rally on AIDS Awareness***
  - ✓ ***Gender sensitization workshop***
  - ✓ ***Dental Camp, Eye Camp, Anti Tabacco Seminar and Yoga Programme***
  - ✓ ***Rally on Pollution free Deepawali***
  - ✓ ***Swachchhaya Bharat Rally***
  - ✓ ***Blood Donation Camp***
  - ✓ ***One Day Camp for deaf-dumb children***
  - ✓ ***One week workshop on social awareness programmes***
  - ✓ ***Seminar on Traffic Awareness***
  - ✓ ***Seminar on Solid Waste Management***
  - ✓ ***Plantation programme***
  - ✓ ***Sadbhavana Divas Oath***
  - ✓ ***Literacy cum Awareness Programme for under privileged children***
- The Rotaract Club (a service club and partner organization of the international body 'The Rotary Club') was started in the institute on 28th May 2018. It is a service, leadership, professional and community service organization for young men and women between the ages 18–30. It focuses on the development of young adults as leaders in their communities and workplaces.

2.15 **Plan of Action by IQAC/Outcome**

The plan of action chalked out by the IQAC in the beginning of the year towards quality Enhancement and the outcome achieved by the end of the year *

S.No.	Plan of Action	Achievements
1.	Implementation of Flexible Curriculum	• The structure and schemes developed and approved by the Academic Council • Provision of 13 core courses, 06 electives, 05 open electives in addition to mandatory courses, science & humanity component for Engineering Programmes • Provision of additional courses for honours or minor specialization • Provision for three mandatory internships • Provision for MOOCs in each semester from III semester onwards
2.	Academic Audit to be conducted twice a year	Conducted as planned and report of the Audits were used for further improvements
3.	Administrative Audit once a year	
4.	Establishment of on-line educational platform for organized Central e-learning environment	• MITS-MOODLE was installed and is being used very effectively for improving the teaching-learning environment • All faculty and students registered on MOODLE • All feedbacks on Courses and Course Outcomes, POs etc. are being taken on-line using MOODLE • Direct and indirect attainment of Cos, POs and PEOs is computed using
5.	Implementation of on-line learning through platforms such as SWAYAM for providing self-learning opportunities to students	• NPTEL Local Chapter established in the institute • A team of faculty coordinators appointed • All II & III year students enrolled for one course compulsorily to train them for self- learning • The institute appeared in the list of top 100 NPTEL Chapters of 1250 chapters of the country (Got 87th rank)
6.	Formulation of a uniform mechanism for student feedback collection and analysis	• On-line collection of feedback twice a semester based on 14 parameters, on a 5 point scale • A performance index is derived for each parameter using the weighted sum of the responses • An overall Faculty Feedback Index is computed. • Areas of strength and weakness identified communicated to each faculty for appreciation and improvement
7.	Increasing effectiveness of remedial classes for socio-economically and academically weak students	Mechanism was established with about 26% success rate. Further improvement expected in the next academic year
8.	Bringing transparency to the evaluation process and reforms	• Digitization of evaluation started partially • Expected full digital valuation from November-December 2018 examination • Valued answer books shown to students • Model answer books were uploaded • Question paper feedback collected on-line on the same day
9.	Increasing effectiveness of Outcome Based Education	• Two OBE coordinators appointed for each department They are provided hands on training for conceptualizing, writing and computing various OBE parameters

10.	Question paper setting according to Course Outcomes	• A 2-day workshop conducted for the OBE coordinators on Question Paper Setting • Guidelines to paper setters framed and implemented w.e.f. April-May 2018 examination
11.	Starting Full time Ph.D. fellowship in the Institute	• Research Associate (RA) fellowships in eligible departments to be started from Academic Session 2018-19. • Proposal for research centre for **National Doctoral Fellowship (NDF) Programme** accepted by The All India Council of Technical Education (AICTE); scheme to begin w.e.f. Academic session 2018-19.
12.	Improvements in different practices to enhance employability	• Personality development courses, industrial visits, industrial training, technical events, various professional society/club activities and lectures from industry experts conducted. • Industrial Conclave was also conducted in November 2017 to give exposure to students and to enhance their different skills.
13.	Feedback of stakeholders on curriculum	• The formats were finalized. • Feedback on curriculum is being collected from Alumni and Employers. • Feedback on Course Outcomes and Programme Outcomes is collected from students, alumni and employers. • Feedback from parents to be taken w.e.f 2018-19
14.	Initiatives for financial support to students from economically weaker backgrounds	• A faculty coordinator appointed to create fund for this purpose through following. • The Corporate Social Responsibility (CSR) fund of leading public sector companies • The Alumni (Alumni already come forward with offer to support two students) • Social contributions/donations
15.	Initiatives taken for Environmental Consciousness	• Practices such as E-journals, use of Whatsapp for information flow, use of IMS, students' course material in soft copies, use of emails for information transfer, both side printing on paper etc. are in use for office and departments. • Conduction of on-line quiz and assessment • Following Committees constituted are to strengthen the environment friendly practices in the Institute*:* ➢ *Energy Audit Committee* ➢ *Water/Waste water Audit/Solid waste management Committee* ➢ *Health Audit Committee* ➢ *Inbuilt Environment/Campus/Air Quality/Transport Audit/Green Audit Committee* ➢ *Good Practices Implementations Committee* • Based on the audit recommendations procurement is under process for the following: ➢ *Sewage Treatment Plant (STP) for converting black water into grey water* ➢ *Compost making machine*

**** ACADEMIC CALENDAR of the year 2017-18 is enclosed.* (ANNEXURE – I)**

2.16 **Whether the AQAR was placed in statutory body** Yes [✓] No [ ]

Management [✓] Syndicate [ ] Any other body [ ]

Provide the details of the action taken :

Before placing the AQAR in the meeting of the Board of Governors, a review was conducted at the Institutional level. The report/action taken report is enclosed as (**ANNEXURE – II**).

Part – B

Criterion – I

1. Curricular Aspects

1.1 **Details about Academic Programmes**

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	10	-	10	-
PG	18	01*	14	-
UG	11	-	05	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate (Run by EDC)	13	-	04	13
Others 1.PG (Part-Time) 2. UG (B.Voc.) 3. Entrepreneurship Programme (Run by EDC)	 03 - 03	 - 04* -	 03 - -	 - 04* 03
Total	**58**	**05***	**36**	**16 + 04* = 20**

Interdisciplinary				
Innovative				

* Approval received in the Month April 2018.

1.2 (i) **Flexibility of the Curriculum: CBCS/Core/Elective option / Open options**
(ii) **Pattern of programmes:**

Pattern	Number of programmes
Semester	UG – 11 PG – 18
Trimester	-
Annual	-

1.3 **Feedback from stakeholders*** Alumni ✓ Parents ✓ Employers ✓ Students ✓
(On all aspects)

Mode of feedback : Online ✓ Manual ✓ Co-operating schools (for PEI) -

Please provide an analysis of the feedback in the Annexure

FEEDBACK ALUMNI, EMPLOYERS, STUDENTS REPORT ENCLOSED (ANNEXURE – III) (CE ME EE EL CSIT CH BT HU AS)

1.4 **Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.**

The Flexible Curriculum has been developed for implementation w.e.f. Academic Session 2018-19**.**

The salient features of the new Flexible Curriculum are:

- *For the award of Under Graduate Degree (UG) in Engineering/Technology & Architecture, it is required to earn minimum 170 & 260 Credits respectively.*
- *Students will be eligible to get UG Degree with Honours or Minor Specialization (relating to other fields of Engineering, Technology, Applied Science, Management etc.), if they earn 20 & 24 extra credits (in addition to the compulsory credits required to obtain the B. Tech. & B. Architecture degrees respectively).*
- *These additional credits may be acquired through SWAYAM /NPTEL/MOOC platform based learning.*
- *There is a provision from 5th semester onwards for the desirous students to opt for additional courses in order to earn the 20/24 additional credits required for honours or minor specialization.*
- *Different Tracks of Specialization will be created for the students, according to their interest & career focus, for selecting additional courses to get Honours or Minor Specialization.*
- ***Ethics, Environmental Science, Disaster Management, Intellectual Property Rights (IPR) and Cyber Security** are included as **Mandatory Courses (MC)** at appropriate places in the scheme.*
- *Two Audit Courses at second and third year on '**Biology for Engineers'** and '**Indian Constitution & Traditional Knowledge'** are introduced. It will be compulsory to acquire the specified credits in these courses by securing the minimum pass marks. However, these credits will not be counted in the aggregate credits.*
- *Beginning with academic year 2018-19, there will be an **Induction Programme** of **three (03) weeks duration** for the **First Year Students,** which will include- Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Department/Branch & Innovations, Foundation Courses etc. To accommodate for this activity at the beginning of the session, the credits of 1st & 2nd Semester have been kept at 21.*

- *One Credit' at the **8th semester** is allotted for '**Innovative Technical Contribution'** to motivate, inspire and recognize student participation at National/ International level technical events during the entire tenure of the UG programme. The detailed guidelines for evaluation will be prepared in due course of time.*
- ***It will be mandatory for students to undertake Three (03)** Internship Programmes as per the following details for completing the UG degree requirements.*

S.No.	Detail	Hours	Year of Internship	Evaluation
1.	Summer Internship Project-I (Institute Level)	60 Hours	First Year	III Semester (02 Credits)
2.	Summer Internship Project-II (Soft Skills)	90 Hours	Second Year	V Semester (03 Credits)
3.	Summer Internship Project -III (On Job Training)	150 Hours	Third Year	VII Semester (02 Credits)

Approved Structure of Undergraduate Engineering Program

S.No.	Category	Suggested Breakup of Credits by AICTE	Component wise credit allotment**	No. of Courses	Weightage (Percentage)
1	Humanities and Social Sciences including Management Courses (HSMC)	12**	12	04	7
2	Basic Science Courses (BSC)	25**	20	05	11.7
3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc. (ESC)	24**	21	06	12.3
4	Departmental Core Courses (DC)	48**	52	13	30.6
5	Departmental Elective Courses relevant to specialization/branch (DE)	18**	20	06	11.8
6	Open Category- Electives from other technical and /or emerging subjects (OC)	18**	15	05	8.9
7	Project work, seminar and internship in industry or appropriate work place/ academic and research institutions. (DLC/SWAYAM/NPTEL/MOOC)	15**	22	13	13
8	Mandatory Course (MC)	-	08	03	4.7
	Total	160**	170	55	100

****Discipline specific minor variations possible**

Approved Structure of Undergraduate Architecture Program

S. No.	Code	Category	%Weightage as per CoA norms (2017 regulations)	No of courses	Total credits	Weightage (Percentage)
1	DC	Departmental(Professional) Core Courses	45	19	127	48.5
2	BSAE	Building Science & Applied Engineering Courses	20	14	57	22
3	DE	Departmental(Professional) Elective Courses	10	07	31	8
4	OC	Open Category Courses	05	03	09	3.5
5	PAEC	Professional ability enhancement course	15	07	30	12
6	SEC	Skill Enhancement Course	5	11	15	6
	TOTAL		100	61	260	100
	MC	Mandatory Course	Qualifier	02(Audit)	06	-

1.5 **Any new Department/Centre introduced during the year. If yes, give details.**

The institute got approval from AICTE for starting the following new programmes.

- Design Centre being developed
- New PG programme in Product Design (Intake: 18)
- Bachelor of Vocation (B. VOC) in Automotive Manufacturing Technology (Intake: 25)
- Bachelor of Vocation (B. VOC) in Graphics and Multimedia (Intake: 25)
- Bachelor of Vocation (B. VOC) in Travel And Tourism (Intake: 25)
- Bachelor of Vocation (B. VOC) in Medical Imaging Technology (Intake: 25)

Criterion – II

2. Teaching, Learning and Evaluation

2.1 **Total No. of permanent faculty**

Total	Asst. Professors	Asso. Professors	Professors	Others
180	**145**	**13**	**22**	**-**

2.2 **No. of permanent faculty with Ph.D.** **43**

2.3 **No. of Faculty Positions Recruited (R) and Vacant (V) during the year**

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
96	**36**	**-**	**36**	**-**	**09**	**-**	**-**	**96**	**81**

2.4 **No. of Guest and Visiting faculty and Temporary faculty** **-** **08** **-**

2.5 **Faculty participation in conferences and symposia :**

No. of Faculty	International level	National level	State level	Regional level	College level
Attended	**06**	**61**	**51**	**-**	**-**
Presented Papers	**09**	**03**	**-**	**-**	**-**
Resource Persons	**39**	**08**	**05**	**05**	**06**

FACULTY PARTICIPATION IN CONFERENCES IS ENCLOSED (ANNEXURE – IV)

2.6 **Innovative processes adopted by the institution in Teaching and Learning :**

1. **Innovative teaching–learning model developed for enhancing the self-learning skills of students (by utilizing on-line courses using the SWAYAM platform)**
   - **The NPTEL Local Chapter was started at MITS from October 2017**
   - **One faculty appointed as SWAYAM manager and 10 faculty members as departmental coordinators for SWAYAM**
   - **One SWAYAM course was compulsory for II & III year students against self study course**
   - **An innovative model was developed for the conduction of these courses.**
   - **The MITS Chapter ranked (87th)among the top 100 local Chapters of the country**
2. **Effective implementation of remedial/bridge classes for weaker students**
   - **Appointment of one institutional and 10 department level coordinators for monitoring and counseling of weak students**
   - **Registering weak students for special classes after college hours and on Saturdays**
   - **Personal attention to these students by the faculty members, close monitoring of their attendance and performance**
   - **The impact analysis shows that the results for the students who attended these classes has improved substantially.**
3. **Institute launched its own MOODLE (Modular Object-Oriented Dynamic Learning Environment) on August 15th 2017. This platform is very effectively being used for effective implementation of Outcome based Learning.**
   - Computing attainment of Course Outcomes (COs) and Programme Outcomes (POs) using direct assessment
   - Student feedback collection on COs, POs and computation of attainment using Indirect Assessment
   - Mapping of COs with Programme Outcomes (POs)
   - Mapping of POs with Programme Outcomes (PEOs)
   - Student evaluation using on-line quiz
   - Feedback on question paper
   - Feedback on faculty/teaching-learning
   - Conducting various aptitude tests like General Enterprising Tendency Test (GETT)
   - The MOODLE platform and its associated features are helping in carrying out an in-depth study on student performance by computing student performance/responses in numeric /percentage values in five linguistic classes.

- The performance is also being computed for each question separately, helping in identifying weak/strong areas
- All faculty, staff and UG, PG, PhD students are registered on MOODLE

4. Uploading lecture notes, GATE questions, unit-wise questions banks, tutorial sheets, assignments on Institute MOODLE
   - This practice helps in creating student centric learning environment.
   - Students can go through notes and other material in their own time and interact with the teacher in the class

2.7 **Total No. of actual teaching days during this academic year** **163**

2.8 **Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)**

- **Digitization of valuation:** Partial evaluation of answer sheets in the digital mode was done for the ongoing April-May 2018 examination, for I year B.Tech and PG in Computer Applications on pilot basis.
- **Displaying Model Answer Sheet**: Model answer sheet/solution was prepared by the faculty members on the day of the examination and it was uploaded on the MOODLE on the same day, so that students can review their performance.
- **Integrated valuation:** On a pilot basis, a few M.E./M.Tech papers were evaluated by multiple valuers in the April-May 2018 examination.
- **On-line question paper feedback**: On-line question paper feedback is taken till 6.0 pm on the day of the examination to get students' opinion on the difficulty level, quality of the question paper and to know about discrepancies if any.
- **On-line QUIZ using MOODLE**: The QUIZ for internal evaluation is conducted on-line using MOODLE and the faculty and students get the results and the performance analysis instantly.

2.9 **No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop**

S. No.	Department	No. of Faculty Members
1.	Civil Engineering	10
2.	Mechanical Engineering	12
3.	Electrical Engineering	13
4.	Electronics Engineering	11
5.	CSE & IT	15
6.	Chemical Engineering	4
7.	Biotechnology	1
8.	Applied Sciences	8
9.	Humanities	1
10.	MCA	4
11.	Architecture	4
	Total	**83**

2.10 **Average percentage of attendance of students** **89%**

2.11 **Course/Programme wise distribution of pass percentage :**

Result Analysis (Final Year) June 2018 Exam. (B.E., B.Arch. & MCA)

Title of the Programme	Total No. of Students Appeared	Division				
		Distinction %	I %	II %	Passed	Pass %
B.E. Civil	133	32	59	24	**115**	**86.47**
B.E. Mechanical	128	35	63	16	**114**	**89.07**
B.E. Electrical	135	41	59	18	**118**	**87.41**
B.E. Electronics	130	24	63	27	**114**	**87.7**
B.E. CSE	125	30	52	28	**110**	**88**
B.E. IT	70	19	30	13	**62**	**88.58**
B.E. Chemical	57	7	20	25	**52**	**91.23**
B.E. Biotech	17	6	6	5	**17**	**100**
B.Arch.	37	28	9	-	**37**	**100**
MCA	62	12	45	4	**61**	**98.39**

Result Analysis (*Data taken from Dec. 17 Exam. (III Sem.) (M.E./M.Tech.)

Title of the Programme	Total No. of Students Appeared	No. of Students with Overall Grade							Pass %
		91-100	81-90	71-80	61-70	51-60	41-50	31-40	
		A+	A	B+	B	C+	C	D	
M.E./M.Tech. (CTM)*	25	0	1	10	7	1	1	0	**80**
M.E./M.Tech. (ST)*	7	0	0	4	1	2	0	0	**100**
M.E./M.Tech. (ENV)*	11	0	0	6	4	1	0	0	**100**
M.E./M.Tech. (PN)*	17	0	2	14	0	0	0	1	**100**
M.E./M.Tech. (ISD)*	18	0	1	10	6	0	0	0	**94.45**
M.E./M.Tech. (MAC)*	10	0	7	3	0	0	0	0	**100**
M.E./M.Tech. (CCN)*	24	0	9	13	2	0	0	0	**100**
M.E./M.Tech. (MW)*	15	0	0	15	0	0	0	0	**100**
M.E./M.Tech. (MCSE)*	16	0	1	6	5	1	2	1	**100**
M.E./M.Tech. (MIT)*	8	0	0	2	4	2	0	0	**100**
M.E./M.Tech. (MCY)*	15	0	0	4	8	1	1	0	**93.34**
M.E./M.Tech. (MCHE)*	1	0	0	0	0	0	1	0	**100**

2.12 **How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :**

- The meeting of the IQAC is conducted quarterly. For finalizing the agenda of the IQAC, meeting of Heads of Departments (HoDs) and Deans is held. Inputs from all departments are taken to identify the areas needing attention and improvement.
- After the IQAC meeting, operational policies are formed and the decisions are communicated to the departments; deadlines are set for compliance.
- **The implementation status and compliance reports from the departments are closely reviewed and monitored by the office of the Dean Academics throughout the session**.
- When some shortcomings or lapses are observed, they are brought to the notice of the concerned HoDs to initiate corrective actions.
- The compliance reports are tabled in the next meeting of the IQAC and further suggestions are sought.
- Similarly, the reports of Academic Audit are reviewed by the IQAC and further course of action is decided for improvement.
- New guidelines coming from AICTE, NAAC and other agencies from time to time are also implemented after discussion in IQAC.
- In addition to class coordinators, department level coordinators are appointed for OBE, SWAYAM, Remedial/Bridge Classes, Industry focusses projects etc.

2.13 **Initiatives undertaken towards faculty development**

Faculty / Staff Development Programmes	**Number of faculty benefitted**
Short term course under **Global Initiative of Academic Networks (GIAN) Sscheme, MHRD, GoI**	29
AICTE-QIP Sponsored Short Term Courses on	
1. **Assuring Global Quality in Technical Education through Outcome Based Education** during 10-14 March 2018	35
2. **Numerical Methods in Electromagnetics** during 27- 31 January 2018 by Department of Electronics Engineering.	31
3. **Optimization Techniques and its Engineering Applications** during 15-19 March 2018 by Department of Mechanical Engineering.	31
Under TEQIP-III	
1. CSE/IT department organised a workshop on "**Big Data & Hadoop**" during 20-21 March 2018	65
2. IET Student Chapter Organised a **Students' Sabha & One day workshop on Artificial Intelligence** on 17th March 2018	80
3. A one-day workshop on **Net Zero Buildings** was organized on 20th March 2018	28

2.14 **Details of Administrative and Technical staff**

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	**42**	**-**	**-**	**-**
Technical Staff	**49**	**-**	**-**	**-**

Criterion – III

3. Research, Consultancy and Extension

3.1 **Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution**

- It was decided by the IQAC that full time Ph.D. fellowship should be started in the institute. So proposal was submitted to the Central Government and the Institute as a research centre for **National Doctoral Fellowship (NDF) Programme** w.e.f. Academic session 2018-19.
- The IQAC advises that research fellowships should be given to deserving candidates who are perusing Ph.D. from the institute. Therefore, norms for providing Research Associate (RA) fellowships with financial assistance from TEQIP-III were formed and the programme will come into effect from Academic Session 2018-19.
- Financial support for research project will be provided to the identified proposals submitted by faculty w.e.f. Academic Session 2018-19.
- It was also decided by the IQAC that each faculty member should submit at least one proposal for research funding from external agency.
- The IQAC has approved a monitoring mechanism for Ph.D. students who are registered in the institute. To evaluate the performance, a six monthly review will be conducted by a duly appointed committee to evaluate the performance of the candidate. Candidates will be encouraged to **communicate /publish at least one paper every six months in a Journal/Conference.**

3.2 **Details regarding major projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	**02**	**03**	**05**	
Outlay in Rs. Lakhs	**17.80 Lacs**	**14.36 Lacs**	**30.05 Lacs**	

3.3 **Details regarding minor projects : Nil**

3.4 **Details on research publications**

RESEARCH PUBLICATIONS IN INTERNATIONAL/NATIONAL/JOURNALS/ CONFERENCES DETAILS ENCLOSED (ANNEXURE – V)

3.5 **Details on Impact factor of publications**

	Citations	h-index	I10-index	Scopus
Total No.	13135	322	294	56
Average	196.04	4.81	4.39	8.00

IMPACT FACTOR OF PUBLICATIONS DETAILS ENCLOSED (ANNEXURE – VI)

3.6 **Research funds sanctioned and received from various funding agencies, industry and other organisations**

FUNDS SANCTIONED AND RECEIVED FROM VARIOUS FUNDING AGENCIES, INDUSTRY AND OTHER ORGANISATIONS DETAILS ENCLOSED (ANNEXURE – VII)

3.7 **No. of books published** i) With ISBN No. **14** Chapters in Edited Books **08**

ii) Without ISBN No. -

BOOK PUBLISHED (AS EDITOR) BY FACULTY MEMBERS

CSE/IT

S. No.	Book Title	Editor(s)	ISBN/EISBN	Publisher	DOI	Projected Release Date	Pages
1.	Soft-Computing-Based Nonlinear Control Systems Design	Uday Pratap Singh, **Akhilesh Tiwari, Rajeev Kumar Singh**	ISBN13: 9781522535317 ISBN10: 1522535314 EISBN13: 9781522535324	IGI Global, USA	doi:10.4018/978-1-5225-3531-7	E-Book: Available on Web Hardcover: February, 2018	415

Applied Science

- **Book Published**:

S. No.	Name of Faculty Member	Name of the Book	Publication Name	Year of Publication
1	**Dr. D K Jain**	Engineering Mathematics – II Page 396+18	Shriram Prakashan Gwalior	Tenth Edition 2018 **ISBN 978-93-820774-6-6**
2	**Dr. D K Jain**	Engineering Mathematics – III Page 418+18	Shriram Prakashan Gwalior	Second Edition 2018 **ISBN 978-93-820775-1-0**

3	**Dr. D K Jain**	Algebra and Trigonometry for B.Sc. I year Paper-I, page296, Text book	Shriram Prakashan Gwalior	First edition, 2017-18 **ISBN 978-93-820775-4-1**
4	**Dr. D K Jain**	Calculus and Differential Equations for B.Sc. I year Paper-II, page384, Text book	Shriram Prakashan Gwalior	First edition, 2017-18 **ISBN 978-93-820775-5-8**
5	**Dr. D K Jain**	Vector Analysis and Geometry for B.Sc. I year Paper-I, page272, Text book	Shriram Prakashan Gwalior	first edition, 2017-18 **ISBN 978-93-820775-6-5**
6	**Uday Pratap Singh,** A. Tiwari and R. K. Singh	Computing-Based Nonlinear Control Systems Design	Publisher: IGI Global	ISBN:9781522535317, DOI: 10.4018/978-1-5225-3531-7, Feb. 2018.

- **Book Chapter / e Book Published:**

S. No.	Title of eBook/Book Chapter	Publisher	ISBN
1.	An Improved RBFNN Controller for a Class of Nonlinear Discrete-Time Systems With Bounded Disturbance- **Book Chapter:** **Authors** :**Uday P Singh**, S. Jain, **D K Jain**, Rajeev K Singh	Emergent Research on the Application of Optimization Algorithms **(IGI Global)**	Full Chapter no 28: sep., 2017 DOI:10.4018/978-1-5225-2990-3.ch028
2	Lecture Notes on Differential and Integral Calculus (*A Simplified Course for B.G. 1st Semester according to the syllabi of Kashmir University and Cluster University*) **Authors :** Altaf Ahmad Bhat, Farooq Ahmad Sheikh, **Dr. D. K. Jain**, Prof. Renu Jain, Bilal Ahmad Dar- **eBooks and Book**	GRIN Publishing, located in Munich, Germany, has specialized since its foundation in 1998 in the publication of academic ebooks and books. The publishing website GRIN.com	Textbook, 2017 298 Pages, Grade: 9.5 PDF version for only **US$ 0.99** Download immediately. Incl. VAT Book for only **US$ 65.50** Shipping worldwide
3	Object Extraction Using Topological Models from Complex Scene Image **Authors** :**Uday Pratap Singh**and S. Jain	Advanced Concepts in Real-Time Image and Video Processing. **(IGI Global)**	2017, Chapter: 13, pp. 335-357, ISBN: 9781522528487.
4	Nature Inspired Based Adaptive Neural Network Approximation for Uncertain System **Authors** :**Uday Pratap Singh**, S. Jain, A. Tiwari and R.K.Singh	Emergent Research on the Application of Optimization Algorithms, **(IGI Global)**	2017, Chapter: 19, pp. 439-461, ISBN: 9781522529903.
5	Intelligent Image Retrieval via Deep Learning Techniques **Authors** : Rajeev Kumar Singha, Suchitra Agrawal, **Uday Pratap Singh**, and Sanjeev Jain	Deep Learning for Image Processing Applications **(IOS Press)**	2017, DOI: 10.3233/978-1-61499-822-8-68, ISSN: 978-1-61499-822-8.
6	Discovering Optical Pattern For Forensic Pattern Warehouse **Authors** : Vishakha Agarwal, Akhilesh Tiwari, R.K. Gupta and **Uday Pratap Singh**	Advanced Computing and Communication Technologies, (**Springer)**	2018, ISBN: 978-981-10-4603-2, DOI: 10.1007/978-981-10-4603-2.
7	Utility and Significance of Vague Set Theory and Advanced Optimization Mechanisms for Uncertainty Management **Authors** : B. Sowkartika, A. Tiwari and **Uday Pratap Singh**	Soft Computing-Based Nonlinear Control Systems Design. **(IGI Global)**	2018, Chapter: 10, pp. 191-219, ISBN: 9781522535317, DOI: 10.4018/978-1-5225-3531-7.ch010.

3.8 **No. of University Departments receiving funds from** : **N.A.**

3.9 **For colleges** : **N.A.**

AICTE, DST and UGC sanctioned research projects are sanctioned to the institute faculty.

3.10 **Revenue generated through consultancy** **Rs. 3744849**

3.11 **No. of Workshop/FDP/STTP organized by the Institution :**

S. No.	Event/ Activity	Topic	Date(S)	Internal/External Experts	No. of Participants
Mechanical Engineering					
1.	Workshop	Multi Physics Simulation Capability of ANSYS	24, Feb 2018	Mr. Aslam	56
2.	Faculty Development Programme	Optimization Techniques and its Engineering Applications	15-19, Mar 2018	Prof. Raghunandan Sen Gupta Prof. Shiv Prasad Yadav Prof. Rajesh Kumar Dr. Balaji R Dr. S.K. Gupta	31
3.	Workshop	Net Zero Energy Building	20, March 2018	Prof. Roshini Udyavar Yehuda	40
4.	Workshop	Additive Manufacturing	29, Apr 2018	Mr. Deepak Bora Ms. Shalini Jain	25
Electronics Engineering					
1.	Workshop	LT Spice, Every Circuit and MATLAB.	14 March to 16 March 2018	Dr. Vandana Vikas Thakare	All B.Tech.
2.	Workshop	Advanced robotics	9/9/17-10/9/17.	Dr. Vandana Vikas Thakare	All B.Tech.
3.	STTP	Numerical Methods In Electromagnetic during	27th -Jan-2018 to 31st-Jan-2018	Dr. P. L. Zade Dr. Mithlesh Kumar Dr. Jagdish Bansal Dr. O. S. Lamba Dr. P. K. Singhal Dr. Rekha Gupta Dr. Bimal Garg Dr. V. Thakare Dr. Laxmi Shrivastav	25
CSE/IT					
1	Two Days Workshop	Big Data and Hadoop	20-21 March 2018	1.Anand kumar Pandey, Morling pvt Ltd, Noida 2. Abhinav Pundir, Morling pvt Ltd, Noida	65

3.12 **No. of faculty served as experts, chairpersons or resource persons**

FACULTY AS EXPERTS IN COMMITTEES, RESOURCE PERSONS, EXPERT LECTURES, REVIEWERS OF JOURNALS, EXPERT TALKS, KEYNOTE ADDRESS DETAILS ENCLOSED (ANNEXURE - VIII)

3.13 **No. of collaborations** International [-] National [**05**] Any other [-]

S. No.	Name of Department	Industry/Organization	Activities conducted
1.	Civil Engineering	MPRRDA, Gwalior division, Chambal division PMGSY Roads and Bridges	Rural road development under PMGSY Visit of the faculty for location approval of the road and bridges. Visit of the students (UG & PG) at the bridge and road site. Approval of DPR of roads and bridges of rural areas.
2.	Mechanical Engineering Department	Central Institute of plastic Engineering & Technology Surya Pipes, Malanpur industrial area.	Industrial visit was conducted for B.E Mechanical and Automobile Engineering on 13 April 2018 Industrial visit was conducted for B.E Mechanical and Automobile Engineering students on 3rd April 2018.
3.	Electrical Engineering Department	M.S. Structures & Suppliers Pvt. Ltd, Gwalior	Performance analysis of Earthing Electrode in August 2017
4.	Electronics Engineering Deptt.	Department is planning for collaboration with other agency/institute/organization. Faculty members are trying for their PhDs from DTU.	
5.	CSE & IT	MITS ACM Student Chapter MITS ACM Student Chapter CSI Chapter	Code/War JAVA workshop Big Data and Hadoop

3.14 **No. of linkages created during this year**

S.No.	Agency/Organization	Duration	Activities (Proposed)
1.	Engipress Industries Ltd. Gwalior	12 aug 2017 / one year	Industrial interaction of students Understanding the current practices in pre stressed concrete structure
2.	CIPET, Gwalior	2018	-
3.	M/S Maa Sharda Structure & Supplier Pvt. Ltd., Gwalior	19.07.2017for 3 Yrs.	1. Visit of 132KV distribution sub-station at Chinor 2. Installed Conductive Concrete based

			MS^{TM} Earth Electrode
4.	Scientech Technologies Pvt. Ltd. Indore.	12/11/2017- 11/11/2020	-
5.	Smart controls India Pvt. Ltd. Gwalior.	12/11/2017- 12/11/2020	-
6.	Infosys Limited	June 2018 -June 2020	**Proposed Activities:** 1. Industry Tour for students in the month of July 2018 2. Faculty Enablement Programs(FEP) 3.Webinars 4. Training for Students
7.	Electronics & ICT Academy PDPM IIITDM Jabalpur	May 2018 Onwards	Summer Courses through National Knowledge Network (NKN) on 1. ANN and Deep Learning 2. Internet of Things (IoT)
8.	Eminent Biosciences, Indore	3 Years (2017-2020)	Under Process

3.15 **Total budget for research for current year in lakhs :**

Institute is committed to promote research and funds are allocated on need base and there is no limit to such funding. Applications are invited from Faculty to undertake research individually, in groups with other colleagues or students at Undergraduate / Postgraduate level.

Faculty of the Institute is encouraged to apply for the research grants at various funding agencies at State and Central level.

3.16 **No. of patents received this year**

PATENTS GENERATED

S.No.	Patent	Applicant	Year of Application	Application No.
CSE/IT				
1	Portable Phone Charger (Conceptualization & Modeling)	Dr. Akhilesh Tiwari	2017 **(under process)**	201621042556A

3.17 **No. of research awards/ recognitions received by faculty and research fellows of the institute in the year**

Total	International	National	State	University	Dist	College
04	-	-	-	-	-	✓

3.18 **No. of faculty from the Institution who are Ph. D. Guides** **20**

and students registered under them **77**

3.19 **No. of Ph.D. awarded by faculty from the Institution (2017-18)** **04**

Department	**No. of Faculty who are Ph.D. Guides**	**Registered Students**	**No. of Students Ph.D. Awarded**
Civil Engineering	02	01	-
Mechanical Engg.	03	09	01
Electrical Engg.	04	26	02
Electronics Engg.	03	17	-
CSE/IT	02	11	-
Chemical	01	01	-
Biotechnology	01	02	-
Applied Sciences	01	01	01
Architecture	02	06	-
MCA	01	03	-
Total	**20**	**77**	**04**

3.20 **No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)**

JRF [-] SRF [-] Project Fellows [**15**] Any other [-]

3.21 **No. of students Participated in NSS events:**

University level [**70**] State level [**02**]

National level [**Nil**] International level [**Nil**]

3.22 **No. of students participated in NCC events:**

Group head quarter level/ University level [**200**] State level [**Nil**]

National level [**Nil**] International level [**Nil**]

3.23 **No. of Awards won in NSS:**

University level [**01**] State level [**-**]

National level [**-**] International level [**-**]

3.24 **No. of Awards won in NCC:**

University level [**02**] State level [**-**]

National level [**-**] International level [**-**]

3.25 **No. of Extension activities organized**

University forum [**-**] College forum [**10**]

NCC [**-**] NSS [**21**] Any other [**-**]

3.26 **Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility**

- Water Distribution Programme at Railway Station
- Rally & Oath on Swachchhata Pakhawada
- Literacy cum Awareness Programme
- Plantation programme
- Seminar on Solid Waste Management
- Cycle Rally & Traffic Awareness Programme
- Blood Donation Camp
- Swachchhaya Bharat Abhiyan Rally
- Rally on Pollution free Deepawali
- One Day Camp (Dental Camp, Eye Camp, Anti Tabacco Seminar and Yoga Programme)
- Rally on AIDS Awareness

NSS DETAILS ENCLOSED (ANNEXURE - IX)

Criterion – IV

4. Infrastructure and Learning Resources

4.1 **Details of increase in infrastructure facilities:**

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	**44.68**	**-**	**-**	**44.68 Acres**
Class rooms	**43**	**09**	**-**	**52**
Laboratories	**40**	**05**	**-**	**45**
Seminar Halls	**01**	**02**	**-**	**03**
No. of important equipments purchased (≥ 1-0 lakh) during the current year.				
Value of the equipment purchased during the year (Rs. in Lakhs)				
Others – CCC & Work Shop	**02**	**-**	**-**	**02**

4.2 **Computerization of administration and library**

- **Administrative office is automated for Application forms, Merit lists, Admissions, Examination forms, Scholarship forms, Library enrolment, Faculty Pay Bills and other administrative work.**
- **The library uses an IMS College Administration Software. Book Circulation, Stock Verification and OPAC facilities are utilized through the library software.**
- **Digital display board for common communications**
- **The exam database and analysis software have been procured for the examination section for first year results**

4.3 **Library services :**

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	99578	10092860	34	34125	99612	10126985
Reference Books	9798	355215	6	5943	9804	861158
e-Books	-	-	500 proposed	1450000	500 proposed	1450000
*Journals & Magazines	20	45000	10	14990	20	24990
**e-Journals (Renewed) ASCE, ASME, IEEE & Science direct	506	1303200	506	1194075	506	1194075
Digital Database	-	-	-	-	-	-
CD & Video	Through NPTEL	-	Through NPTEL	-	Through NPTEL	-
***Newspapers	22	31536	22	31536	22	31536
World Digital Library membership	Perpetual	-	Perpetual	-	Perpetual	-
National Digital Library Membership	All registered members	-	All registered members	-	All registered members	-
South Asia Archive (SAA)	Perpetual	-	Perpetual	-	Perpetual	-

Note:

*** Journals & Magazines: As the subscription of journals & magazines are on yearly/ three years basis renewal already done in January 2018 for whole one year.**

**** E-journals: Subscription of ASME, ASCE, Sciencedirect and IEEE e-journals renewed in January 2018 to Dec 2018 for whole calendar year.**

***** Newspaper: library subscribe total 22 newspaper in hindi and English language out of which 3 are belonging to employment and carrier related.**

QUALITY IMPROVEMENT AND UP GRADATION ADOPTED IN LIBRARY IN ACADEMIC YEAR 2017-18

For Quality Improvement of Institute & Library Services :

1. Year wise student's orientation & student library committee meeting has been conducted. Suggestions related to student's requirement incorporated with library procurements and process the same.
2. For getting suggestion from all year students related to requirement of new books, magazines, etc specific email id: librarymitramits@gmail.com is created.
3. For fulfilling research & development needs of various UG.PG, Research Scholars & faculty library renewed the subscription of various international journals:
   1) IEEE/IET Electronic Library (IEL) Online (479) e-journals
   2) ASME: 29 e-journals
   3) ASCE: 36 e-journals
   4) Science direct (275) e-journals

   } through E-shodh sindhu consortium
4. For providing better services to students community library timing is extended upto 07:00 PM in the evening.
5. For providing current awareness services to students library subscribed to 16 newspapers in Hindi & English, 12 Technical & general magazines, 3 employment newspapers.
6. For providing more e services like e-books, e-journals, NDL services to learning community specific e-quarrel with highest specification of PCs is under development.

Upgradation Adopted in Library

1. Library imported all its holding bibliographical data of books to Koha integrated library automation software.
2. RFID technology with Koha integration was already implemented in year 2014 and institute continuously updated the requirement of RFID peripherals and implement the same like RFID Scanner, Staff station & RFID Tags.
3. Online public access catalogue facility which shows the current status of particular title has started in library premises.
4. For providing more e services (24x7) like e-books, e-journals, NPTEL, National Digital Library, E-shodhsindhu, Shodhganga services to user community specific e-quarrel with highest specification of PCs is under process.
5. For accommodating more books and students sitting in central library, procurement of new racks and students chairs will start after renovation of library.

4.4 **Technology Upgradation (overall)**

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Others
Existing	671	12	NKN Line 100 MBPS; 24x7	05	01	(1) High End Servers - 03
Added	57	-1	Nil	Nil	Nil	(1)Smart classroom containing digital teaching device and lecture recording facility – 04 (2) Digital Signage – 01 (3) High End Servers - 05 (4) Lab of Internet of Things – 01 (5) Extension of LAN
Total	**728**	**11**	**NKN Line 100 MBPS; 24x7**	**05**	**01**	(1) Smart classroom containing digital teaching device and lecture recording facility – 04 (2) Digital Signage – 01 (3) High End Servers - 08 (4) Lab of Internet of Things – 01 (5) Extension of LAN

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

Internet and computer facilities are available to Students and Faculty freely in the Institute. Regular workshops are conducted for the Faculty to upgrade in their domain knowledge and technical education pedagogy. Interactive sessions with students and faculty are organized at Institute as well as departmental level. Workshops and Expert Lectures by prominent persons are also organized for the benefit of students and staff.

Encouragement through reimbursement of fee for open online courses have been initiated. Various IT platforms are being used for governance at the Institute. All the departments are treated as separate identity and collective decisions are made at Deans and Heads level for smooth functioning.

A well structured duties and responsibilities document is available for all the stake holders for the day to day handling of issues and decision making.

4.6 **Amount spent on maintenance in lakhs :**

i) ICT **6,00,000**

ii) Campus Infrastructure and facilities **10843172**

IT INFRASTUCTURE PROCURED in 2017-18

S No	Name of Item	Brief Description	Rate (Rs)	Qty	Amount (Rs)
1.	Interactive Display	Diagonal Size : Minimum 2147.27mm Display Area : Minimum 1920×1080 Resolution : Minimum 3840 x 2160 Contrast Ratio : Minimum 1200:1, Brightness : Minimum 410 cd/? Angle : Minimum 178° / 178°, Brand:LG / Samsung/sony Panel, Backlight : LED Input : Analog RGB(G,G, B Separate H, V Sync), HDMI 2.0 x 4, AUDIO 3.5mm IN/OUT, USB(Media-MOVIE, MUSIC, PICTURE), OPTICAL AUDIO OUTPUT(SPDIF)	849750	01	849750.00
2.	Ultra short throw LED/LCD projector	Projection System : 3LCD Technology 0.59 inch with D9 Colour Light Output : Minimum 3,500 Lumen, Pen and finger touch Interactive type accordance Connectivity :- USB Display Function 3 in 1: Image / Mouse / Sound; with compatible wireless dongle and Same OEM Make Ultrashort throw Mount with Cabling, with motorized screen (8X12ft) with remote control	172950	05	864750.00
3.	Networking Items	Fibre manageable switch; Non manageable switch; Transceiver; LIU; CAT6; Wireless Routers; Fibre Patch Cord etc.	-	-	786000.00
4.	Digital Teaching Device	Material Of The Cabinet: CRCA Steel Sheet Digital smart podium Model Veni 220 Lockable Wheel based with 21.5 Interactive LED Panel writing when presenter/Teacher/Instructor presenting the Class, the 21.5 inch figure Touch Interactive LED Display with Tilting Adjustment , 200 Watts Amplifier, 80 Watt x 2 Speaker, with multiple control switch i.e. Display, Volume etc. CPU I7/8GB/1TB/Windows 10 Annotation Software, Lockable sliding Tray for documents, Laptop, visualizer keyboard and mouse, Movable Locking Caster	599950	03	1799850.00

5.	Server	Processor Configuration : 8 core, 2.10 GHz with 20 MB smart cache memory, 85 watt ; Form Factor : Rack ; Processor Make : Intel ; Max. Number Of Sockets Available On Chipset : 2 ; Max. Number Of Sockets Populated With Processor : 2 ; No. Of Processor : 2 ; Number Of Core Per Processor : 8 ; Chipset Compatible With CPU : Intel C610 ; Motherboard (OEM compatible With CPU) : Yes ; PCI Slots (Express Gen 3.0 Min.) : 3 ; DDR4 RAM Upgradable Upto (Minimum) : 1024 GB; DIMM Slots (Minimum) :16 No.; Hard Disk Drive Capacity : 2*600 GB; Hard Disk Drive RPM With SAS (hot Plug Or Better) : 10000 RPM; RAID Controller	05	325000	1625000

iii) Equipments	**522428**
iv) Others	**71550**
Total :	**12037100**

Criterion – V

5. Student Support and Progression

5.1 **Contribution of IQAC in enhancing awareness about Student Support Services**

- Initiative taken by IQAC to create fund for supporting students from economically weaker sections
- The IQAC has given guidelines for the development of GATE/employment oriented teaching learning.
  - ✓ In lieu of the above the faculty is preparing GATE level questions and study material.
  - ✓ Also, in-house training programmes by external agency/experts for GATE and employability enhancement will be conducted from July 2018 onwards for pre-final and final year students.
- Provision for internship in curriculum: There are three mandatory internships which will help in increasing employability and skills of students. In addition to this, student will be given the flexibility to complete all credits using MOOCS and opt for Internship for full 8th Semester.
- Each department has appointed a Project Coordinator at departmental level to identify and facilitate execution of student projects which are industry focussed/useful to society from next session onwards.
- The Grievance Redressal Cells are active for girls as well as Boys. Meetings are held with the students to find out their problems, if any. The minutes are communicated to the Dean Student Welfare or Proctor (depending on the type of problem), for further action.

5.2 **Efforts made by the Institution for tracking the progression**

- Remedial/bridge classes are being made more effective through constant motivation and monitoring. The pass percentage of students is closely monitored.
- Orientation programmes are conducted for students to make them aware of the support system available at the institute and to know about their aspirations.
- An exit survey is conducted to find out about the final status of student employment and their views on various other issues.
-

5.3 **(a) Total Number of students**

UG	PG	Ph. D.	Others
933	**210**	-	-

(b) No. of students outside the state **34**

(c) No. of international students **Nil**

	No	%
Men	**781**	

	No	%
Women	**152**	

Last Year						**This Year**					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
479	**197**	**75**	**194**	**-**	**945**	**578**	**150**	**48**	**157**	**02 (OBC)**	**933**

Demand ratio Dropout % **20**

5.4 **Details of student support mechanism for coaching for competitive examinations (If any)**

- In-house training programmes by external agency/experts for GATE and employability enhancement will be conducted from July 2018 onwards for pre-final and final year students.

No. of students beneficiaries **324**

5.5 **No. of students qualified in these examinations**

NET	-	SET/SLET	-	GATE	**200**	CAT	**06**
IAS/IPS etc	-	State PSC	-	UPSC	-	Others	-

5.6 **Details of student counselling and career guidance**

- Pre-Assessment Test and Assessment Test in Pre-Final Year and Final Year Students
- Employability Skills Training
- Career Guidance Sessions & Personality Development Workshops
- Placement Performance etc.
- Review of Projects (Major & Minor) - Department Wise

In last three years T&P Cell conducted the following activities for the benefits of students & Institute.

Trainings

T&P Cell every year conducts Soft Skills and Professional Skills training for Campus placements which also help students in GATE/CAT exams or to face interviews on campus and off campus as well.

Following training sessions had been arranged for the last 4 batches :

Soft Skills Development Training Classes & Campus Preparation				
S. No.	**Start Date**	**End Date**	**Details**	**Participated Batch**
1	18-03-17	31-03-17	Soft & Professional Skills Training, PDP, GD, PI	Pre-Final Year, 2018 Graduated batch
2	01-09-17	17-09-17	Soft & Professional Skills Training, PDP, GD, PI	Final Year: 2018 Graduated batch
3	10-12-17	-	Online Skill Test, Youth For Works by AICTE	For II & III year students
4	20-09-17	-	Mock Interviews Workshop	2018 batch
5	09-04-2018	-	Pre-Assessment Test	733 students of 2019 Graduated Batch

Guest Lectures			
S. No.	**Start Date**	**Details**	**Participated Batch**
1	17.03.17	Mr. Chandan Somani (Lecture on Aptitude & Reasoning)	2018 batch
2	19.03.17	Mr. Manoj Dawrani (English Language, Verbal & Non- Verbal)	2018 batch
3	20.03.17	Mr. Syed Abbas Hasan (Mock GDs & Mock Interviews workshop)	2018 batch
4	21.03.17	Ms. Reshma Nair (PDP workshop)	2018 batch

Briefing Sessions / PDP Workshops			
S. No.	**Start Date**	**Details**	**Participated Batch**
1	11/10/2017	Cameron Briefing Session	2018 batch
2	12-13 Nov, 2017	Industry Conclave: Industry Ready Professionals	For all students, faculty and Alumni
3	28/10/2017	TEDx Event	For All
4	03/02/2018	PUMA Graphic Design	-
5	14/02/2018	BARC Session on different opportunities	2018-19 batch
6	16/02/2018	Mahindra Auto Quiz Contest	2019 & 2020 Batch
5	12.08.17	Capgemini – Pre-Placement Talk`	2018 batch

*In addition to the above list T&P Cell Every year conducts many briefing session for the students 2nd, 3rd and final year.

Campus Connect Activities :

S. No.	Company Name	Activities Going on for Students/Faculty
1	Accenture	Accenture Innovation Challenge 2018
2	Infosys	Infosys Hackathon: HackInfy (15 Students Shortlisted for 2nd Round)

5.7 **Details of Campus Placement**

Pass out Year	***On campus***			***Off Campus***
	Number of Organizations Visited	**Number of Students Participated**	**Number of Students Placed**	**Number of Students Placed**
2018	29	706	507	-
2017	26	587	445	-
2016	32	461	359	-

SUMMARY OF PLACEMENT (PASSING OUT BATCH - 2018)

S. No.	Company Name	B.E. Branch								Total
		Civil	Mechanical	Electrical	Electronics	CSE	IT	Chemical	Biotech.	
1	Accenture	13	30	26	28	46	21	13	3	**180**
2	IBM	-	-	6	2	9	3	-	-	**20**
3	Capgemini	-	1	2	5	9	3	-	-	**20**
4	Metacube	-	-	-	-	-	1	-	-	**1**
5	Tata Projects	4	-	1	-	-	-	-	-	**5**
6	Wipro	-	-	-	-	3	1	-	-	**4**
7	BORL	1	-	-	-	-	-	3	-	**4**
8	Britannia	-	2	-	-	-	-	-	-	**2**
9	DCM Shriram	1	-	-	-	-	-	2	-	**3**
10	Berger Paints	-	-	-	-	-	-	1	-	**1**
11	Indian Oil-Adani Gas Pvt.Ltd	-	4	2	-	-	-	-	-	**6**
12	TradeIndia Research Campus	18	35	25	36	16	12	9	7	**158**
13	Asahi India Glass Ltd.	-	4	-	-	-	-	1	-	**5**
14	Lupin India	-	-	-	-	-	-	4	-	**4**
15	Indian Hume Pipes	18	-	-	-	-	-	-	-	**18**
16	BYJU's	-	1	-	3	2	-	3	-	**9**
17	Jamna Auto Industries	-	8	2	-	-	-	-	-	**10**
	Total	**55**	**85**	**64**	**74**	**85**	**41**	**36**	**10**	**450**

PLACEMENT DETAILS ENCLOSED (ANNEXURE – X)

5.8 **Details of gender sensitization programmes**

- The institute in collaboration with Madhya Pradesh Police Department organized a one-day event on 'Woman Empowerment' to commemorate the National Girl Child day on 24th January 2018.
- NSS and Red Ribbon Club organized a programme on gender equality –open mic completion on 09/02/2018 and 10/02/2018. 165 students (72 girls & 93 boys) participated in this.

5.9 **Students Activities**

5.9.1 **No. of students participated in Sports, Games and other events**

State/ University level **40** National level **06** International level **Nil**

No. of students participated in cultural events : **42**

5.9.2 **No. of medals /awards won by students in Sports, Games and other events**

Sports : State/ University level **10** National level **Nil** International level **Nil**

1. Winner in inter-Collegiate Volleyball Tournament.
2. Winner in inter-Collegiate Badminton (Men's) Tournament.
3. Winner in inter-Collegiate Badminton (Women's) Tournament.
4. Winner in inter-Collegiate Basketball (Men's) Tournament.
5. Winner in inter-Collegiate Basketball (Women's) Tournament.
6. Winner in inter-Collegiate Football Tournament.
7. Winner in inter-Collegiate Chess Tournament.
8. Winner in inter-Collegiate Table Tennis Tournament.
9. Runners up in Inter-Collegiate Cross Country Race.
10. Runners up in RGPV State Level Basketball (Men's) Tournament.

5.10 **Scholarships and Financial Support**

	Number of students	**Amount**
Financial support from institution	05 Students (Minimum Scholarship)	10000 x 5 = 50000/-
Financial support from government	(SC -381, ST – 90 & OBC - 559) Total Student = 1030	Disbursal
	MMVY 23 Students	
	13 Students (Merit Scholarship)	Under Process
Financial support from other sources	03 (Handicap ScholarsShip)	Amount Transferred direct Student Account
Number of students who received International/ National recognitions	-	-

5.11 **Student organised / initiatives**

Fairs	: State/ University level	-	National level	01	International level	-
Exhibition:	State/ University level	-	National level	04	International level	-

- There are 30 active student clubs and 07 professional society chapters in the Institute. A total of 89 activities (cultural, technical & sporting events) were organized by the students.

CLUB ACTIVITY DETAILS ENCLOSED (ANNEXURE – XI)

- The Students of the Indian society for Technical Education (ISTE) Student Chapter organized the Annual National Quiz Fest, CHIMERA-X in collaboration with ISTE-MANIT, Bhopal Student Chapter. The zonal rounds were conducted in 9 cities and the finale at MANIT Bhopal.
- Pan India Quiz Contest JQL-2017 in collaboration with Jaipuria Institute of Management, Indore
- Workshop on ANSYS Workbench & Android App Development in association with Emotech Software Solution Pvt Ltd, City Centre, Gwalior
- Training and Placement Cell has successfully organised TEDxMITSG an independently organised TED event on **28th October, 2017 under the TEDx Club of MITS**.

S. No.	Name of the Speaker	Affiliation & Credentials
1	Virendra Shahaney	Chairman & MD, Web talkies and Former Creative Director - Sony Entertainment Television, Mumbai, Alumni of MITS.
2	Himanshu Warudkar	Director & Head at Royal Bank of Scotland, Former Director - Barclays, Alumni of MITS.
3	Amitabh Thakur	IPS Officer, Founder of National RTI Forum, Lucknow
4	Dr CA Reeta Shah	Director, Shemaroo Entertainment, Growth Coach, Mumbai
5	Prof. Anand Kumar Jaiswal	Professor at IIM Ahmedabad
6	Dr. Nikhil Chandwani	Padma Shri Nominee, Author, Film Producer, Educator, Professor, Travel Director (Discovery Channel) and Entrepreneur, Nagpur
7	Anurag Asati	Founder & CEO thekabadiwala.com
8	Mitendra Singh	Mr. India 2017, Mister United Continents

5.12 **No. of social initiatives undertaken by the students** **21**

5.13 **Major grievances of students (if any) redressed :**

There are various levels of grievances redressal system :

1. Proctorial Board.
2. Women Guidance Grievances and Redressal Cell.
3. Girls Counseling Cell.

4. Anti ragging committees to monitor day to day issues.
5. Internal Compliant Committee
6. Food Quality Assurance Committee.
7. Anti ragging Committee constituted as per the guidelines of Hon'ble Supreme Court of India.
8. Free access to students and faculty to lodge complaints and issues to Director through e-mail.
9. Open dialogue sessions with students.
10. Institute has its own Citizen Charter and compliance of same is mandatory for all stake holders.

As of now no major grievance has been reported, what-so-ever issues were brought forward for attention were addressed on day today basis.

Criterion – VI

6. Governance, Leadership and Management

6.1 **State the Vision and Mission of the institution**

VISION –

- To create world class quality Engineers and Technocrats capable of providing leadership in all spheres of life and society.

MISSION –

- To provide quality education in technical and allied disciplines.
- To organize and arrange innovative courses in Engineering and Technology.
- To arrange vocational courses in the upcoming fields and innovative subjects to meet global advancement.
- To promote research in the fields of Technology and Science.

6.2 **Does the Institution have a management Information System: Yes**

- IMS (Information Management System) is a cost effective integrated online service that manages Admission (PG), Post Admission Registration, Examination & Result Processing, Library and Accounts of the Institute. IMS is running successfully since last two years with the objective to computerize the work and reduce paper work. Services are online and can be accessed via internet. It reduces human effort and provides high security & availability of data. Students can register online, pay fee and can see/download their results. IMS provides fully automated Examination & result processing system in which marks are obtained in online mode, the TR is generated & final mark sheets are immediately visible to the students.

- Total 6699 users of 48 different department/sections are registered. The IMS comprises of the following modules:

  - ✓ IMS(for student)
  - ✓ MIS(for faculty/Staff)
  - ✓ ECS(for Examination)

- ✓ Library Module
- ✓ Admission (PG admission) Module

- IMS/MIS is deployed / hosted on the cloud servers and ECS system is installed in the institute, following is the configuration of ECS System. Processor: Core I7, RAM -4GB, 1TB HDD.

6.3 **Quality improvement strategies adopted by the institution for each of the following:**

6.3.1 **Curriculum Development**

- The Board of Studies consists of all faculty members of the department, there are representatives of alumni, persons from the industry and external subject experts. Informal and formal meetings with students are conducted ahead of the BoS meeting.
- Before framing the syllabi, syllabus development workshops are conducted; curriculum of other National/International institutes is also referred.
- Syllabi of GATE and other competitive examinations is also taken into consideration.
- Along with the syllabi, the Course Outcomes are also discussed and finalized.
- Provision is kept for MOOCs through NPTEL/SWAYAM platform.
- The list of departmental/open electives is dynamic, it changes to keep pace with the innovations and current needs of the society/industry.
- **Flexible Curriculum is developed recently to be implemented w.e.f. 2018-19.**
- The schedule of the BoS meeting (Sample) is as given below :

Madhav Institute of Technology & Science, Gwalior – 474 005

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Schedule of the BOS Meeting

Date: 7th April 2018

S.No.	Activity	Time	Activity Outcome
1	Meeting with Group of Students (including Student OBE Coordinators)	11.00 A.M. - 12.15 P.M.	Feedback / Input from Student
2	Preliminary Discussion on the Grading and Flexible Scheme/Curriculum Design	12.15 -01.20 P.M.	To discuss and develop the general context regarding essentials of Scheme/Curriculum
Lunch		01.20-02.00 P.M.	-
3	Presentation / general discussion on the draft of Scheme & Curriculum relating to proposed Flexible Structure/ Grading system	02.00-02.45 P.M.	To give the overview of prepared draft of Scheme & Curriculum

4	Course Specific discussion, Review and consideration of input from experts for improving the proposed scheme/curriculum	02.45-03.30 P.M.	Improvement of course contents / possible inclusions as per the suggestions
5	Drafting/ Documentation (preparing minutes) of discussion	03.30-04.00 P.M.	Writing of meeting minutes
6	Review Meeting	04.00-04.30 P.M.	To conclude the discussions/recommendations made by BOS

6.3.2 **Teaching and Learning**

- Interactive teaching and group learning is being promoted where students are encouraged to give presentations in group, particularly in self-study/seminar classes
- All class rooms are fitted with projectors. Faculty makes use of modern instruction tools, PPTs, Video Clips etc wherever necessary.
- The notes and study material, question banks etc are uploaded on the institute MOODLE.
- On-line evaluation is carried out using MOODLE.
- To promote self-study, all students are compulsorily registered for one NPTEL course (Appearing in the on-line examination is optional). The subject matter experts (SMEs) do the evaluation on the basis of **uniform guidelines framed at the Institute level** :

The following evaluation guidelines are employed :

Criterion	Weightage (%)
Continuous evaluation by the teacher(s) of the course through (Seminar/Presentation/Group assignments	**40**
Evaluation through ONE Midterm Exam	**20**
ONE Quiz through Institute MOODLE	**20**
Monitoring and record of attendance	**20**

6.3.3 **Examination and Evaluation**

Question Paper Setting

- Question papers for mid-term and end-term examination were based on Course Outcomes.
- Detailed guidelines were issued to paper setters in this regard and norms were set for weightages given to easy, moderate and difficult questions as per the following norms :

S. No.	Estimated difficulty level of question	Percentage
1.	Easy (Knowledge/ Remembrance)	30%
2.	Average (Understanding/ Applying)	50%
3.	Difficult (Applying/ Analyzing/ Evaluate)	20%
Total		**100%**

Evaluation System

- To bring transparency in the evaluation system digital valuation is done on pilot basis in the April-May examination 2018.
- The answer books were shown to the interested students, retotaling cases were reduced to zero and there was a drastic reduction in applications for revaluation.

Role of IMS in Conduction of Examination

- The process from filling examination forms to making seating plans, preparing various data formats, all the work is on-line on the institute Information Management System (IMS).
- Result declaration, printing of mark sheets etc. is also managed by the IMS

6.3.4 Research and Development

For the improvement of Research and Development activities in the institute, the following strategies are being adopted :

- Full time Ph.D. fellowships are being started in the institute under the **National Doctoral Fellowship (NDF) Programme** w.e.f. Academic session 2018-19.
- Research Assistantship (RA) will be provided to deserving candidates who are perusing Ph.D. from the institute with effect from Academic Session 2018-19.
- Financial support for research project will be provided to the identified proposals submitted by faculty w.e.f. Academic session 2018-19.
- It was also decided by the IQAC that each faculty member should submit at least one proposal for research funding from external agency.
- The IQAC has approved a monitoring mechanism for Ph.D. students who are registered in the institute. To evaluate the performance, a six monthly review will be conducted by a duly appointed committee to evaluate the performance of the candidate. Candidates will be encouraged to **communicate /publish at least one paper every six months in a Journal/Conference.**

6.3.5 Library, ICT and physical infrastructure / instrumentation

- ***The Library subscribes more than 496+ titles of e-journals from various publishers like Science direct, IEEE, ASCE & ASME via lease line campus access authentication.***
- ***Central library is also in the process of procuring more than 300+ titles of e-books from publishers like Pearson, TMH, CBS & Wiley.***
- ***Library also has a membership of National Digital Library (NDL) of India and all the registered students can access all the content of Digital library (https://ndl.iitkgp.ac.in/).***
- ***Library also has a membership of world e-book library (http://community.worldlibrary.in/?AffiliateKey=NDL-IE1638)***
- ***For accessing all the e-journals & e-books in the central library, institute has already initiated the process of procuring latest PCs and renovation of the existing audio visual section.***

6.3.6 Human Resource Management

Human resources management and its quality assurance is made effective through API Appraisal System for faculty and numeric model for appraisal for staff.

The Career Advancement Schemes are implemented according to the state and AICTE norms, from time to time.

6.3.7 **Faculty and Staff recruitment**

- It has been decided that annual increments and promotions under CAS will be based on the Academic Performance Index (API).
- The screening/interviews under the Career Advancement Scheme (CAS) were conducted for all eligible cases in January 2018.
- Against 54 faculty members engaged under TEQIP-III by NPIU 50 have joined the different Engineering and Allied Departments of the institute.
- For the vacant posts (20 numbers) at Assistant/Associate Professor Levels, the advertisement for regular appointment has already been floated; screening has already been done.

6.3.8 **Industry Interaction / Collaboration**

- A Global Alumni Meet is held in the institute every year at the time of Founders' Day in November.
- A large number of Alumni come to the institute and interact with the faculty and students.
- Regular industry visits are organized for students and industry experts are invited to deliver expert lectures.
- Industry Conclave was organized on 12th -13th November 2017

6.3.9 **Admission of Students**

- The admission of students is done on-line, centrally by the Department of Technical Education (DTE), Bhopal, Madhya Pradesh.
- All the State and Central Government norms/reservation policies etc. are fully adhered to.
- Full 100% seats are filled. The branch and category wise details are enclosed in **ADMISSIONS IN YEAR 2017-18 DETAILS ENCLOSED (ANNEXURE – XII)**

6.4 **Welfare schemes available for stake holders are :**

Teaching	**Teachers Welfare fund as per University guidelines.**
Non teaching	(i) Institutional Resources according to need base. (ii) Fee Waiver scheme in Higher Degree for one child.
Students	(i) Insurance (ii) Alumni Support.

Initiations are under progress to create a corpus through donations and CSR to support meritorious students having financial problems.

6.5 **Total corpus fund generated** 1,00,00,000/-

6.6 **Whether annual financial audit has been done** ✓ Yes - No

6.7 **Whether Academic and Administrative Audit (AAA) has been done**? **Yes**

Audit Type	External		Internal	
	Yes/No	**Agency**	**Yes/No**	**Authority**
Academic	Yes Dated – 17-02-2018	Dr. Sushil Kumar Former Prof., & Head of Civil Engg., MANIT, Bhopal Dr. J.S. Chauhan Director, SATI, Vidisha	Yes Dated – 18-02-2017 Dated – 05-08-2017	Dr. Manjaree Pandit Dean Academic & Prof. Elect. Engg. Deptt., MITS, Gwalior Dr. Manjaree Pandit Dean Academic & Prof. Elect. Engg. Deptt., MITS, Gwalior
Administrative	-	-	Yes Dated – 22-02-2018	Dr. L.K. Jain Prof. Arch. Deptt., MITS, Gwalior

6.8 **Does the University/ Autonomous College declares results within 30 days?**

For UG Programmes Yes [✓] No [-] **Within 15 Days**

For PG Programmes Yes [✓] No [-] **Within 15 Days**

6.9 **What efforts are made by the University/ Autonomous College for Examination Reforms?**

- **Digitization of valuation:** Was started on pilot basis w.e.f. April-May 2018 examinations. The experiment has proved very successful and satisfactory for the students as well as the institute. There were no totalling mistakes and the applications for revaluation were reduced drastically as the students were allowed to see their valued answer books.
  Therefore from the next Academic Year it is expected that full end-term valuation will be done digitally.
- **Displaying Model Answer Sheet to students**: Model answer sheet/solution prepared by the concerned faculty members was electronically displayed to the students on the same day (after the completion of the examination) through the MOODLE, so that students could review their performance.
- **Integrated valuation:** On a pilot basis, a few M.E./M.Tech papers were evaluated by multiple valuers in the April-May 2018 examination.
- **On-line question paper feedback**: On-line question paper feedback is taken till 6.0 pm on the day of the examination to get students' opinion and comments on the difficulty level, quality of the question paper and to know about discrepancies if any.
- **On-line QUIZ using MOODLE**: The QUIZ for internal evaluation is conducted on-line using MOODLE and the faculty and students get the results and the performance analysis instantly.

6.10 **What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

NOT APPLICABLE

6.11 **Activities and support from the Alumni Association**

- MITS is a 60-year old institute and its alumni are adorning high positions in academic, government and corporate sectors; there are many successful entrepreneurs also.
- Alumni association is very active and a number of activities are conducted every year. One Global alumni meet is conducted every year during the foundation day.
- The alumni association is a big support for the institute. Recently, in January 2017 the new Institute Gate was constructed from alumni funds.
- There are a number of scholarships initiated by the alumni for supporting students who are meritorious and from economically weaker sections of the society.

6.12 **Activities and support from the Parent – Teacher Association**

- Parent teacher forums are created at the department level
- Parent teacher association has been formed at Institute Level.
- Meetings are conducted once every semester/ whenever a feedback is required.
- The parents feedback is employed for general quality improvement.

6.13 **Development programmes for support staff**

S. No.	Name of staff	Activity	Event venue	Date	Duration
Electrical Engineering					
1	R.S.Yadav	Introduction of Transducers/Sensors for Industrial Automation	ATI EPI Dehradun	11-15 June 2018	One Week
2	Rajesh Sharma	Introduction of Transducers/Sensors for Industrial Automation	ATI EPI Dehradun	11-15 June 2018	One Week
CSE/IT					
1	Santosh Sharma	STTP on Linux Administration Using Centos	NITTTR, Chandigarh	30 April -4 May 2018	5 Days
2	Sanjay Arolia	STTP on Linux Administration Using Centos	NITTTR, Chandigarh	30 April - 4 May 2018	5 Days

6.14 **Initiatives taken by the institution to make the campus eco-friendly**

- Regular Environment Audit, Energy Audit, Water Audit are conducted in the institute.
- The recommendations are implemented.
- The institute has an eco-friendly campus with 65% of its land covered by urban forestry and well maintained gardens.

- Measures have been taken to conserve water and electricity.
- The Institute is committed to save paper by making use of through electronic data management and dissemination and options such as both side printing are in regular practice.
- Sewage Treatment Plant (STP) for converting black water into grey water will be installed soon.
- Installation of compost making machine is already proposed for the coming year**.**

Criterion – VII

7. Innovations and Best Practices

7.1 **Innovations introduced during this academic year which have created a positive impact on the Functioning of the institution. Give details.**

- NPTEL local chapter was opened and students were engaged in self-learning by motivating and training them to make use of the on-line learning platform.
- On-line quiz and feedback through MOODLE
- Assessment of CO-PO-PEO attainment using MOODLE
- On-line faculty feedback from students and development of a Faculty Feedback index
- Digitization of examination; digital valuation successfully implemented for I year
- Question paper setting based on course outcomes
- Uploading/Displaying of Model Answer Sheet to students after the examination
- Daily on-line question paper feedback after the completion the examination
- Development of 42 in-house Internship Modules and providing hands on summer internship for all I year students on the campus

7.2 **Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year**

ACTION TAKEN REPORTS (ATR) ARE ENCLOSED IN (ANNEXURE – II)

7.3 **Give two Best Practices of the institution**

1. **On-line Faculty Feedback Collection and Analysis**
2. **Self-Learning Model (Developed Using SWAYAM/NPTEL)**

BEST PRACTICES OF THE INSTITUTION DETAILS ENCLOSED (ANNEXURE – XIII)

7.4 **Contribution to environmental awareness / protection**

- The area of MITS campus is about 45 Acres out of which 15% is built area and 20% area is covered by roads, rest of the area is green (Urban forestry, gardens and sports grounds) housing a huge variety of birds.

- Practices such as E-journals, use of Whatsapp for information flow, use of IMS, students' course material in soft copies, use of e mails for information transfer, both side printing on paper etc. are in use for office and departments.

7.5 **Whether environmental audit was conducted?** Yes [✓] No [ ]

- Following Committees (constituted & amended vide order no.2239 dated 11.08.2017, 1150 dated 24.04.2018 & 1164 dated 25/26.04.2018) are regularly performing monitoring and controlling activities to strengthen the environment friendly practices in the Institute:

  - Energy Audit Committee
  - Water/Waste water Audit/Solid waste management Committee
  - Health Audit Committee
  - Inbuilt Environment/Campus/Air Quality/Transport Audit/Green Audit Committee
  - Good Practices Implementations Committee
- The corrective measures and new initiatives based on quarterly audit reports are being taken in a timely manner.

Based on the audit recommendations procurement is under process for the following :

- Sewage Treatment Plant (STP) for converting black water into grey water
- Installation of Compost making machine

7.6 **Any other relevant information the institution wishes to add. (for example SWOT Analysis)**

DETAILS OF SWOT ANALYSIS WITH METHODOLOGY

SWOT analysis was carried out with the involvement of various stake holders' participation. All the important points related to SWOT were considered. Some of the important parameters taken into consideration for analysis were, teaching learning process, human resources, services, physical resources, finance and organization pattern along with its formalization procedures etc. The brain storming sessions in different groups were conducted to discuss the various parameters involving in the analysis of SWOT.

For the purpose of analysis, various comments received during discussions were analyzed and reported. In these various sessions, 72% students, 98% Faculty members and 80% supporting staff of various departments of the Institute participated. The outcome of the discussion during free flow of information is diagnosed and analyzed by "Weisbod's" Model using statistical parameters is reported below:

STRENGTH

(a) The Institute is accredited by National Assessment & Accreditation Council (NAAC) for five years, till September 11, 2022 with grade B^{++} and CGPA of 2.86.

(b) The institute has goy autonomy from University Grants Commission (UGC) for a period of 6 years w.e.f. July 2017-18.

(c) A 60 years old premier Institution having Grant-in-Aid status from the State Government of Madhya Pradesh, has a campus of over 44.6 Acres.

(d) Many programmes of the institute have been once/twice accredited by National Board of Accreditation.

(e) The Institute has a MOODLE(Modular Object-Oriented Dynamic Learning Environment) which is extensively used for (i) providing on-line learning material, notes, PPTs, question banks etc (ii) conducting on-line quiz, for computing and mapping academic parameters (such as CO-PO-PEO attainments)

(f) An active NPTEL (National Programme on Technology Enhanced Learning) local chapter operational since 2017 in the institute to bring in the culture of self-learning; the institute chapter ranked 87^{th} in the country among about 1200 plus chapters during Jan-May 2018 session.

(g) The institute conducts in house summer internship programme for the first year students where they are given hands on exposure to various skills.

(h) Remedial classes are being conducted effectively for weak students and its impact analysis is also being conducted.

(i) The institute takes a structured on-line feedback from its stakeholders and has developed an efficient mechanism or its analysis, which is used effectively for quality improvement.

(j) The institute has good infrastructure, all class rooms have white boards and projectors, availability of wi-fi & internet facility and a green campus.

(k) Due to congenial environment and good academic atmosphere the top most students of Madhya Pradesh opt for this institute (amongst state level colleges) as their first choice for study.

(l) The Alumni of the Institute are at leading positions in various government organizations, PSUs, Private Sector Organizations and institutions of higher learning.

(m) Eminent personalities constitute the mmanagement and Board of Governors.

(n) Exercising Academic Autonomy successfully since the year 2002.

(o) By exercising academic autonomy, course curriculums are regularly upgraded/revised, as per global needs.

(p) The institute has well qualified, experienced and energetic Human Resource.

(q) The institute has active interaction with the local industries.

(r) The institute has an active Entrepreneurship Development Cell which conducts large number of activities.

(s) The institute is an approved Ph.D. Research Centre of the University. Five departments are approved QIP (minor) research centres for Ph.D. and some candidates are admitted also under the National Doctoral Fellowship (NDF).

(t) The Institute conducts Continuing Education Programmes regularly.

(u) Institute conducts Faculty Development Programme regularly.

(v) The institute has autonomy to Procure Goods and services and has administrative and managerial autonomy.

(w) The institute has well defined Vision, Mission and Goal.

(x) The institute has effective interaction with its eminent and dynamic alumni.

(y) The institute is very well connected by road, rail and air.

(z) Having highest placement of students through T&P cell of the Institute in the region.

WEAKNESS

(a) Financial constraints for removal of obsolescence & commencement of new demand based programmes/facilities.

(b) Extra built-up area required for new PG courses/UG increase in intake.

(c) Requirement of advanced Technical Resources & Learning Materials.
(d) Exposure of recent advances and trends in Engineering & Technology to the faculty and staff.
(e) Library up-gradation & office Automation needed.
(f) Auditorium, more Sport facilities, transportation & more accommodation for students/staff are required.
(g) Up-gradation of Networking of Campus.
(h) Need of advanced software & hardware.
(i) Up-gradation of modern and up to date research facilities.
(j) More collaborations with industries and institute of higher learning.
(k) More middle level faculty required.
(l) More faculty with Ph.D. degree required.
(m) Need of Student's soft skill, personality development programmes.
(n) Installation of modern teaching aids and facilities deprived faculty from learning pedagogy.

OPPORTUNITIES

(a) To start demand based innovative courses
(b) To improve the quality of education by adopting modern tools, methodologies & learning Materials.
(c) To produce trained man power to face the global challenges.
(d) To develop world class Technical Resource Centre
(e) To strengthen skills of weaker section of society by imparting training for enhancing self employment to the nearby area.
(f) To be a part of global Economy by providing excellent Technical Human Resources.
(g) To establish world class research facility & to get involve in solving existing industrial problems at local/regional/National level.
(h) To participate actively in community development programme for regional upliftment.
(i) Professionally managed and well established 53 years old government aided institution provide good opportunity to attract more qualified and experienced faculties / staff.
(j) The City is well connected by road, rail and air to all parts of the country.
(k) The various research projects by the different funding agencies provides good opportunity for consultancy work.
(l) A large Alumni group, to support the institution.
(m) With good faculty strength, institute can organize National / International level seminars, conferences, workshops and continuous education programmes.

THREATS

(a) The lack of exposure to new technology will become a hurdle for imparting high quality education to the students.
(b) Lucrative financial packages as well as facilities / resources provided by the private / foreign competitors will cause migration of good faculty members.
(c) Lagging in fulfil the vision, mission and goal of the Institute.
(d) Unable to face the challenges of fast changing scenario of global environment.
(e) Due to fast changes in government policies (in education sector), new foreign universities, private universities are coming up, which will cause great challenges and competition.

(f) As a grants in aid institution of Government of Madhya Pradesh, with the constraints of limited funds to cope up the changing global scenario.

STRATEGIC PLAN FOR INSTITUTIONAL DEVELOPMENT AS PER SWOT

The strategy based on SWOT analysis is formulated to strengthen the UG, PG and Ph.D. courses of Institute and to improve the employability of students. Following are the basic fundamental strategies options to be adopted for the improvement and making Institute as a knowledge centre and centre of excellence for imparting education and training in the area of Engineering & Technology, so that the human resource generated is effectively useful for the society in general and industries in particular.

8. Plans of Institution for next year

Laboratory Infrastructure Development

- ✓ Development of Electrical Machines Lab (Fund Rs. 59 Lacs)
- ✓ Development of Design Centre [Fund Rs. 100 Lacs]
- ✓ Development of Control Lab(Fund Rs. 20 Lacs)
- ✓ Development of PCB & Communication Engg Lab (Fund Rs. 71 Lacs)

Faculty Knowledge and skills enhancement

- ✓ Enrolment of 06 non Ph.D. faculty members for qualification up-gradation under twinning arrangement of TEQIP-III & In-house Guidance
- ✓ Participation of Faculty in National/International Seminar, Conference, Workshop and in Continuing Education Programs
- ✓ Management Development Training of Faculty
- ✓ Training of faculty in Subject knowledge & Research Domain
- ✓ Training on Basic and Advanced modules of Pedagogical Aspects

Accreditation and quality enhancement initiatives

- ✓ Apply for NBA accreditation of (BE-EE, ME/MTech.-CTM, CSE & MW)
- ✓ NBA Visit for (BE-CE, ME, CSE, EL)
- ✓ Preparation and assessment for NAAC Application for (cycle-2)

Faculty Recruitment

- ✓ Appointment of Faculty Members on Regular Basis
  (Assistant Professor: 20, Associate Professor: 02)
- ✓ Appointment of Faculty Members on Contract Basis (80 Faculty at Assistant Professor Level)
- ✓ Appointment of Adjunct Faculty, visiting Faculty and resource persons from Industry:
- ✓ Adjunct Faculty from Industry, Resource Persons from Academia, Off campus Faculty from Industry and academia

Academic Reforms and improvements

- ✓ Workshop for Curriculum Revision [02/year]
- ✓ Implementation of flipped classes/Blended Learning
- ✓ Introduction of new UG Courses:
  [Bachelors in Robotics and Automation (60), Bachelors in Design (60)]

- ✓ Implementation of Flexible systems for Value added/enrichment/Audit courses for the batch 2018-19 onwards (one Course in Each Semester)
- ✓ Increase in percentage of ME/M.Tech & Ph.D. students (85% Enrolments)
- ✓ Research Assistance to Ph.D. Students under TEQIP-III (06 students)
- ✓ Increase in Percentage of externally funded research and development projects and consultancies in total revenue (0.75% of Total Revenue)

Student progression targets

- ✓ Employment through Campus Placement(68 % of students)
- ✓ Higher Education (18% of Students)
- ✓ Start-up/Entrepreneurships (06% of Students); Other (08% of Students)
- ✓ Enhancement in participation of Students in GATE & Other Engineering tests (75%)
- ✓ Increase in the average score of students participating in GATE & Other tests (60% of participating students qualify the test)

(Dr. Pratesh Jayaswal)
Coordinator, IQAC

(Dr. R.K. Pandit)
Director
Chairperson, IQAC

_____***_____

Annexure I

MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR

(A Govt. Aided UGC- Autonomous Institute affiliated to RGPV, Bhopal)

Website : www.mitsgwalior.in

Academic Calendar for ODD Semester: July 2017 to Dec 2017

(II yr.to Final year BE,B.Arch,M.E./M.Tech, MCA& Ph.D)

1.	Online Registration	:	11th -23rd July 2017
2.	Submission of Hard copy of the Registration form to class coordinators (Mandatory)	:	24th - 26th July 2017
3.	Teaching Starts	:	24th July 2017
4.	Registration with late fee	:	24th July to 26th July 2017 (With late fee Rs. 100/- per day) (After 26th July 2017registration only in exceptional cases with permission from Director & late fee of Rs. 2000/-)
5.	Mid Semester Exam – I & Quiz	:	30th , 31st Aug. – 1st Sept. 2017 (Wed, Thur, Fri)
6.	Mid Semester Exam – II & Quiz	:	11th-13th October, 2017 (Wed, Thurs, Fri)
7.	Mid-Semester Break	:	16th – 20th October, 2017
8.	Mid Semester Exam – III & Quiz (See note 3 below)	:	8th-10th November, 2017 (Wed., Thurs, Fri)
9.	Teaching Ends	:	10th November, 2017
10.	Online Exam form Submission	:	8th November- 13th November 2017
11.	Founder's Day	:	14th November, 2017
12.	Online Exam form submission with late fee	:	14th November 2017 - Rs. 100/- 15th November 2017 - Rs. 500/- On 16th Nov. 2017 exam form submission with permission from Director & late fee of Rs. 2000/-
13.	End-term Theory Exam/Practical Exam	:	16th November-15th December 2017
14.	Result Declaration	:	23rd December 2017 onwards
15.	Winter Break	:	26th – 30th December 2017
16.	Teaching starts (Even Semester)	:	1st January, 2018

Note-

1. Students not having attendance as per the RGPV, Bhopal norms will not be allowed to appear in examination.
2. Exam fees will be deposited during Registration but it does not mean that the students are eligible to appear in the examination unless he/she fulfils the RGPV requirements.
3. Mid semester exam-III will be for those students who could not appear in previous mid-semester tests due to some valid reason and who have taken prior permission from the HoD.

Important Instructions

1. Students are required to register for Odd Semester (July to December, 2017) only by online registration using their IMS ID. Online registration will start on 11th July 2017. In case of any difficulty, the students can send a mail to ims@mitsgwalior.in.
2. Submission of registration documents (registration form, fee receipt etc.) is mandatory to complete the registration process.
3. Students who have forgotten their IMS password will need to apply for a new password by paying a fee of Rs. 50/-
4. Students are required to report to their concerned departments along with the printed copy of the online registration form between 24th – 26th July 2017.
5. For each student it is compulsory to appear in two mid semester examinations. The mid-semester marks will be awarded by taking the average of two mid-semester examination marks.
6. It is compulsory for all Ph.D. candidates who are registered at MITS research centre to register on the above mentioned dates and submit all their past fee dues. They are also required to submit the copy of all the past receipts, registration letter from the university along with their progress reports duly signed by their supervisors in the office of the Dean, R&D.
7. Students are required to submit the Affidavit/Undertaking duly signed by their Parent/ guardian regarding fulfilling the attendance requirements and not indulging in any act of indiscipline. The format of the same is available on the Institute website.
8. The students whose result is not declared/not eligible for year promotion and applied for revaluation/Challenge case are required to provisionally register with the Class Coordinator with the undertaking that if they fail, their provisional registration may be treated as cancelled. Attendance during the period of provisional registration will be counted for fulfilling attendance requirements
9. Students are required to maintain a copy of the fee receipt for any further requirements and verification.

(Dr. Manjaree Pandit)
Dean Academics

Annexure I

MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR

(A Govt. Aided UGC- Autonomous Institute affiliated to RGPV, Bhopal)

Website : www.mitsgwalior.in

Academic Calendar for EVEN Semester: Jan 2018 to June, 2018

(BE, B.Arch,M.E./M.Tech, MCA & Ph.D)

1.	Online Registration	:	24th Dec. – 31st Dec. 2017
2.	Submission of Hard copy of the Registration form with class coordinators	:	1st January 2018 – 3rd January, 2018
3.	Teaching Starts	:	1st January,2018
4.	Registration with late fee	:	1st Jan. To 3rd Jan. 2018 (With late fee Rs. 100/- per day) (After 3rd Jan. 2018 registration only in exceptional cases with permission from Director & late fee of Rs. 2000/-)
5.	Mid Semester Exam – I & Quiz	:	14th to 16th Feb. 2018 (Wed, Thus, Fri)
6.	Mid Semester Break	:	26th Feb. – 3rd March, 2018
7.	MITS Day	:	10th March, 2018
8.	Mid Semester Exam – II & Quiz	:	27nd to 29th March 2018 (Tues, Wed, Thus)
9.	Mid Semester Exam – III & Quiz (See note 3 below)	:	18th April to 20th April 2018 (Wed, Thus, Fri)
10.	Teaching Ends	:	20th April 2018
11.	Online Exam form Submission	:	18th April – 24th April 2018
12.	Online Exam form submission with late fee	:	25th April 2018 - Rs. 100/- 26thApril 2018 - Rs. 500/- On 27th April 2018 exam form submission with permission from Director & late fee of Rs. 2000/-
13.	End-term Theory Exam/Practical Exam	:	27th April 2018 -26th May 2018
14.	Result Declaration	:	4th June 2018 onwards
15.	Summer Vacation	:	4th June to 7th July 2018

Note-

1. Students not having attendance as per the RGPV, Bhopal norms will not be allowed to appear in examination.
2. Examination fees will be deposited during Registration but it does not mean that the students are eligible to appear in the examination unless he/she fulfils the RGPV requirements.
3. Mid semester exam-III will be for those students who could not appear in previous mid-semester tests due to some valid reason and who have taken prior permission from the HoD.

Important Instructions

1. Students are required to register for Even Semester (January to May, 2018) only by online registration using their IMS ID. Online registration will start from 24th December, 2017. In case of any difficulty, the students can send a mail to ims@mitsgwalior.in.
2. Submission of registration documents (registration form, fee receipt etc.) is mandatory to complete registration process.
3. Students who have forgotten their IMS password will need to apply for a new password by paying a fee of Rs. 50/-
4. Students are required to report their concerned department along with the printed copy of the online registration form between 1st – 3rd January 2018.
5. For each student it is compulsory to appear in two mid semester examinations. The mid-semester marks will be awarded by taking the average of two mid-semester examination marks.
6. Students are required to submit the Affidavit/Undertaking duly signed by their Parent / guardian regarding fulfilling the attendance requirements and not indulging in any act of indiscipline. The format of the same is available on the Institute website.
7. The students whose results are not declared/not eligible for year promotion and applied for revaluation/Challenge case are required to provisionally register with the Class Coordinator with the undertaking that if they fail, their provisional registration may be treated as cancelled. Attendance during the period of provisional registration will be counted for fulfilling attendance requirements.
8. Students are required to maintain a copy of the fee receipt for any further requirements and verification.

(Dr. Manjaree Pandit)
Dean Academics

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV Bhopal)

ACTION TAKEN REPORT ON DECISIONS OF IQAC

The following actions have been taken:

1: Regarding conduction of Administrative Audit once every year:

Administrative Audit was conducted on 22nd Feb. 2018 for following supporting departments: General Office, HR / Establishment, Security, Housekeeping / Guest House / Garden, EDC, Dispensary, Hostels.

2: Regarding conduction of two Academic Audits in a year (One by Internal Audit Committee & one by external experts):

Academic Audit by Internal Audit Committee and two external experts (Dr. Susheel Kumar, Former professor, Civil Engineering, MANIT, Bhopal & Dr. J.S. Chauhan, Director SATI, Vidisha) was conducted on 17th February 2018 on a 30-point format addressing all the important teaching-learning parameters.

3: On-line feedback & appreciation letter/awards to faculty members who get very good feedback:

- *The institute has taken cognizance of the matter.*
- *On-line feedback has been collected w.e.f. July-December 2017 semester.*
- *The feedback analysis has been performed by all the departments and appropriate actions are taken wherever necessary.*
- *Mechanism for giving Appreciation letters/Awards will be developed and Appreciation letters/Awards will be given to faculty members at the end of Academic Year.*

4: Moderation of question papers by external & internal members and Question paper setting to be based on Course Outcomes:

- *The matter was discussed in the Academic Council Meeting on 23.09.17 and it was suggested that random moderation can be started.*
- *A committee was constituted to prepare **new guidelines to paper setters** regarding difficulty level, distribution of marks, and for setting Question Papers based on **course outcomes aligned with Revised Bloom's Taxonomy.***

- *A two-day workshop was organized by the IQAC for the **departmental OBE coordinators** on "**Effective techniques of Question Paper Setting-An OBE Approach**" during 7th-8th February 2018.*
- *The Question Paper setting will be based on **course outcomes**, with effect from May-June 2018 examination.*

5: Regarding showing answer books of end-term examination to students for maintaining transparency and credibility:

- *The matter was discussed in the Academic Council Meeting on 23.09.17 and was accepted.*
- *The mechanism/modalities for conducting this activity will be finalized and will be brought into practice w.e.f the next academic year.*
- *The Institute is shortly going for digitization of answer books also.*

6: Regarding scrapping of answer book coding:

The suggestion was not accepted by the Academic Council of the institute.

7: Implementation of Flexible Academic Curriculum:

- *The Institute is committed to implement flexible curriculum from July 2018.*
- *A committee is working on preparing the scheme and structure for the new flexible curriculum.*
- *The new curriculum will be developed after workshops with representatives of stakeholders & Board of Studies Meetings and will be placed in the Academic Council for approval in April/May 2018.*

8: Implementation of on-line learning through platforms such as SWAYAM:

- *The NPTEL (National Programme on Technology Enhanced Learning) Local Chapter has been started and has become functional in the institute from **30th Oct. 2017** to provide e-learning through on line Web and Video courses.*
- *The institute has appointed one SWAYAM Manager and a team of SWAYAM coordinators from all departments to promote and motivate students for self learning.*
- *To inculcate self learning capabilities, the students of II and III year have been registered for one SWAYAM course compulsorily, in the January-May 2018 session against self-study/seminar courses.*
- *Detailed guidelines for conduction and internal evaluation of students have been prepared by the institute SWAYAM team.*

- *Subject Matter Experts (SMEs) have been given responsibility to monitor the teaching-learning process for the SWAYAM courses.*
- *The registration process has been completed and about 85%-90% students have been registered.*

9: Utilization of e-learning platform (MITS-MOODLE):

- *The MITS-MOODLE is completely operational. All the 4600 plus students, faculty members and staff are registered on it.*
- *A team consisting of 34 faculty members from various departments has been constituted to coordinate the following activities at the department level:*
  - *i. On-line quiz conduction*
  - *ii. Direct/indirect assessment of course outcomes (COs), Programme outcomes (POs) and Programme Educational Objectives (PEOs).*
  - *iii. Feedback and its analysis*
  - *iv. Uploading lecture notes*
  - *v. On-line assessment of assignments*
  - *vi. Dissemination of any other academic information*
- *Between 15th to 22nd December 2018 on-line quiz using MOODLE was conducted for all I year students.*
  - *i. Feedback was taken on COs, Faculty competencies and curriculum.*
  - *ii. The quiz performance was analysed student wise, subject wise, question wise*
- *The CO attainment for July-December 17 Semester has already been computed using MOODLE.*
- *The PO & PEO attainment for academic year July17-June 18 will be computed using MOODLE after the result declaration.*
- *GET (General Enterprising Tendency) test was conducted for all the students of the Institute for identifying the students who have entrepreneurial mind set for further grooming.*

10: Enhancement of student attendance in remedial/performance improvement classes:

- *A team of 12 faculty members is appointed as coordinators for the Remedial Classes/ Bridge Classes to take all necessary steps at their department level to increase the effectiveness of these classes.*
- *The departmental coordinators work under the guidance of an institutional I/c for Remedial/Bridge Classes and monitor the effectiveness of the classes/attendance on*

a weekly basis. The team is entrusted with the responsibility to identify and motivate all the backlog and less privileged students/ to attend these special classes regularly.

- *The team will also provide necessary counselling and guidance to students and help in solving their examination related problems.*

11: Regarding revising of honorarium for paper setting/checking/conducting practical examinations in MITS Autonomy structure

On the basis of recommendations of a duly constituted committee, the honorarium to external examiners for conducting practical viva-voce examination has been doubled and for evaluating UG student projects has also been substantially raised.

The honorarium to external and internal examiners for evaluating PG dissertations has been brought at par.

12: Regarding starting our own ERP system:

The procurement of examination server is in process. The institute ERP system will be started in parallel to the existing Information management System (IMS) first on trial basis. After ensuring that the performance is satisfactory, the institute ERP will be started.

13: Regarding building academic links with foreign universities/institutions:

- *Initiatives at the Department/Faculty level are being taken. Seven proposals under Global Initiative of Academic Networks (GIAN) scheme were submitted by faculty members of the institute marking the beginning of collaboration with faculty members at foreign universities/institutes.*
- *One proposal has been sanctioned on "Sustainability in the Built Environment" in collaboration with faculty member from RMIT University, Melbourne, Australia.*

14: Regarding inviting faculty members from IITs & GATE paper setters to address/motivate the students about cracking the GATE examination

Initiatives are being taken at the Department Level. Requisite measures will be taken as per the NPIU guidelines under TEQIP-III.

15: Regarding starting Full time Ph.D. fellowship in the institute

The research committee of the institute has formulated guidelines for full time Ph.D. fellowship under TEQIP-III. The implementation process will begin in March 18.

16: Regarding re-starting the Girls Wing of National Cadet Core

The matter is under consideration. It is expected that very soon the Girls wing of NCC will be restarted.

17: Regarding implementation of the Flexible Curriculum as per AICTE new guidelines:

The Scheme and Curriculum (based on AICTE guidelines for model curriculum 2018 and instructions of Rajiv Gandhi Proudyogiki Vishwavidyalay (RGPV), Bhopal was prepared by the various Board of Studies (BoS) and approved by the Academic Council in its meeting on 26th April 2018.

For students admitted in Academic Session 2017-18, this curriculum will be implemented from 3rd Semester onwards and for students admitted in academic session 2018-19, this will be effective from 1st semester itself.

The general structure of the scheme and distribution of credits in different course categories is as follows:

Approved Structure of Undergraduate Engineering Program

S. No.	*Category*	*Suggested Breakup of Credits by AICTE*	*Component wise credit allotment***	*No. of Courses*	*Weightage (Percentage)*
1	*Humanities and Social Sciences including Management Courses (HSMC)*	*12***	*12*	*04*	*7*
2	*Basic Science Courses (BSC)*	*25***	*20*	*05*	*11.7*
3	*Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc. (ESC)*	*24***	*21*	*06*	*12.3*
4	*Departmental Core Courses (DC)*	*48***	*52*	*13*	*30.6*
5	*Departmental Elective Courses relevant to specialization/branch (DE)*	*18***	*20*	*06*	*11.8*
6	*Open Category- Electives from other technical and /or emerging subjects (OC)*	*18***	*15*	*05*	*8.9*
7	*Project work, seminar and internship in industry or appropriate work place/ academic and research institutions.* *(DLC/SWAYAM/NPTEL/MOOC)*	*15***	*22*	*13*	*13*
8	*Mandatory Course (MC)*	*-*	*08*	*03*	*4.7*

	Total	***160*****	***170***	***55***	***100***

*****Discipline specific minor variations possible***

Approved Structure of Undergraduate Architecture Program

S. No.	***Code***	***Category***	***%Weightage as per CoA norms (2017 regulations)***	***No of courses***	***Total credits***	***Weightage (Percentage)***
1	*DC*	*Departmental(Professional) Core Courses*	*45*	*19*	*127*	*48.5*
2	*BSAE*	*Building Science & Applied Engineering Courses*	*20*	*14*	*57*	*22*
3	*DE*	*Departmental(Professional) Elective Courses*	*10*	*07*	*31*	*8*
4	*OC*	*Open Category Courses*	*05*	*03*	*09*	*3.5*
5	*PAEC*	*Professional ability enhancement course*	*15*	*07*	*30*	*12*
6	*SEC*	*Skill Enhancement Course*	*5*	*11*	*15*	*6*
	TOTAL		*100*	*61*	*260*	*100*
	MC	*Mandatory Course*	*Qualifier*	*02(Audit)*	*06*	*-*

The semester wise break-up of credits is as follows:

Semester	*Credits*		*Weightage in percent*	
	Engineering	*Architecture*	*Engineering*	*Architecture*
I	*21*	*27*	*12.35*	*10.4*
II	*21*	*27*	*12.35*	*10.4*
III	*24*	*27*	*14.12*	*10.4*
IV	*25*	*27*	*14.71*	*10.4*
V	*24*	*27*	*14.12*	*10.4*

VI	*24*	*26*	*14.12*	*10*
VII	*18*	*27*	*10.58*	*10.4*
VIII	*13*	*26*	*7.65*	*10*
IX	*NA*	*18*	-	*6.9*
X	*NA*	*28*	-	*10.7*
TOTAL	***170***	***260***	***100***	***100***

The other salient features of the new Flexible Curriculum are:

- *For the award of Under Graduate Degree (UG) in Engineering/Technology & Architecture, it is required to earn minimum 170 & 260 Credits respectively.*
- *Students will be eligible to get UG Degree with Honours or Minor Specialization (relating to other fields of Engineering, Technology, Applied Science, Management etc.), if they earn 20 & 24 extra credits (in addition to the compulsory credits required to obtain the B.Tech & B.Architecture degrees respectively).*
- *These additional credits may be acquired through SWAYAM /NPTEL/MOOC platform based learning.*
- *There is a provision from 5th semester onwards for the desirous students to opt for additional courses in order to earn the 20/24 additional credits required for honours or minor specialization.*
- *Different Tracks of Specialization will be created for the students, according to their interest & career focus, for selecting additional courses to get Honours or Minor Specialization.*
- ***Ethics, Environmental Science, Disaster Management, Intellectual Property Rights (IPR) and Cyber Security** are included as **Mandatory Courses (MC)** at appropriate places in the scheme.*
- *Two Audit Courses at second and third year on '**Biology for Engineers'** and '**Indian Constitution & Traditional Knowledge'** are introduced. It will be compulsory to acquire the specified credits in these courses by securing the minimum pass marks. However, these credits will not be counted in the aggregate credits.*

- *Beginning with academic year 2018-19, there will be an **Induction Programme** of **three (03) weeks duration** for the **First Year Students,** which will include- Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Department/Branch & Innovations, Foundation Courses etc. To accommodate for this activity at the beginning of the session, the credits of 1^{st} & 2^{nd} Semester have been kept at 21.*
- *One Credit' at the **8^{th} semester** is allotted for '**Innovative Technical Contribution'** to motivate, inspire and recognize student participation at National/ International level*

technical events during the entire tenure of the UG programme. The detailed guidelines for evaluation will be prepared in due course of time.

- ***It will be mandatory for students to undertake Three (03)*** *Internship Programmes as per the following details for completing the UG degree requirements.*

S.No.	***Detail***	***Hours***	***Year of Internship***	***Evaluation***
1.	*Summer Internship Project-I (Institute Level)*	*60 Hours*	*First Year*	*III Semester (02 Credits)*
2.	*Summer Internship Project-II (Soft Skills)*	*90 Hours*	*Second Year*	*V Semester (03 Credits)*
3.	*Summer Internship Project -III (On Job Training)*	*150 Hours*	*Third Year*	*VII Semester (02 Credits)*

18: To Review and suggest improvements for different practices to enhance employability, skill enrichment & quality of student projects along with students' participation

- *Each department has appointed a* ***Project Coordinator*** *at departmental level to identify and facilitate execution of student projects which are industry focussed/useful to society from next session onwards.*
- *Provision for internship in curriculum: There are three mandatory internships which will help in increasing employability and skills of students. In addition to this, student will be given the flexibility to complete all credits using MOOCS and opt for Internship for full 8th semester.*
- *In-house training programmes by external agency/experts for GATE and employability enhancement will be conducted from next session onwards for pre-final and final year students*

19: To review the Feedback of stakeholders on curriculum and finalization of formats for the same

- ***From students****: Feedback on curriculum has been taken by the departments before framing the Flexible Curriculum by conducting formal as well as informal meetings with students. In addition to this, curriculum feedback is being collected on-line on MOODLE.*
- ***From Teachers****: All the faculty members are also members of Board of Studies.*

- ***From employers****: Curriculum feedback is being collected by the Training & Placement Cell. A meeting of HoDs is also being conducted with the teams visiting for placement.*
- ***From Alumni****: Curriculum feedback is collected by the departments with the help of the T&P Cell and OBE coordinators.*
- ***Parents:*** *A parent-teacher meeting will be organized by each department once in a semester to identify parents who can contribute towards this activity and also to get a general feedback. Instructions regarding this have already been issued to the departments vide notice number DA/MP/18/639 dated 26/03/2018.*

20: Regarding mechanism for student feedback, its analysis and corrective measures

- *As discussed in the last meeting, instructions were given to class coordinators to collect the on-line feedback from only those students who are regular in their classes.*
- *As instructed by the House in the last meeting, a uniform and comprehensive summary of the feedback analysis and action taken for each department has been prepared.*
- *A* ***Faculty Feedback Index (FFI)*** *has been computed for each faculty on a scale of 5 (five) by taking weighted average of student responses in 5 classes (Excellent, Very Good, Good, Average & Below Average) for 14 (Fourteen) criteria.*
- *Based on the index, areas of appreciation and areas needing improvement are identified for each faculty and the same is communicated to them by the concerned Head of the Department.*

21: To discuss the possibility of conducting Summer Semester for backlog students

- *The matter was raised in the Academic Council Meeting on 26th April 2018 and has been raised with the Affiliating University during meeting of Directors.*

22: Regarding examination reforms for establishing the credibility of evaluation procedures

- ***Digitization of valuation****: As per the target, partial evaluation of answer sheets in the digital mode has been started for the ongoing April-May 2018 examination, on pilot basis.*
- ***Displaying Model Answer Sheet****: Model answer sheet is being prepared by the faculty members on the day of the examination and it is uploaded on MOODLE on the same day, so that students can review their performance.*
- ***Integrated valuation****: On a pilot basis, a few M.E./M.Tech papers are being evaluated by multiple valuers in the ongoing April-May 2018 examination.*

- ***On-line question paper feedback****: On-line question paper feedback is taken till 6.0 pm on the day of the examination to get students' opinion on the difficulty level, quality of the question paper and to know about discrepancies if any.*

23: Regarding attainment of Course Outcomes (COs), Programme Outcomes (POs) and Programme Educational Objectives (PEOs)

- *For the Academic Session 2017-18, the attainment of COs, POs and PEOs will be computed on-line using direct as well as indirect assessment.*
- *This task will be completed after the declaration of results for the ongoing April-May 2018 examination.*
- *The report will be presented before the House in the next meeting.*

24: Regarding the status of Research and guidelines for improvement at various levels

- *Norms for providing **Research Associate** (RA) fellowships with financial assistance from TEQIP-III in eligible departments have been formed and the programme will be started from Academic Session 2017-18.*
- *The All India Council of Technical Education (AICTE) has recognized the Institute as a research centre for **National Doctoral Fellowship** Programme w.e.f. Academic session 2018-19.*
- *Financial support for research project will be provided to the identified proposals submitted by faculty members w.e.f. Academic session 2018-19.*

25: Regarding initiatives taken for Environmental Consciousness

- *The area of MITS campus is about 45 Acres out of which 15% is built area and 20% area is covered by roads, rest of the area is green (Urban forestry, gardens and sports grounds).*
- *Practices such as E-journals, use of Whatsapp for information flow, use of IMS, students' course material in soft copies, use of emails for information transfer, both side printing on paper etc. are in use for office and departments.*
- *Following Committees (constituted & amended vide order no.2239 dated 11.08.2017, 1150 dated 24.04.2018 & 1164 dated 25/26.04.2018) are regularly performing monitoring and controlling activities to strengthen the environment friendly practices in the Institute:*

  - *Energy Audit Committee*
  - *Water/Waste water Audit/Solid waste management Committee*
  - *Health Audit Committee*
  - *Inbuilt Environment/Campus/Air Quality/Transport Audit/Green Audit Committee*
  - *Good Practices Implementations Committee*

The corrective measures and new initiatives based on quarterly audit reports are being taken in a timely manner.

Based on the audit recommendations procurement is under process for the following:

- *Sewage Treatment Plant (STP) for converting black water into grey water*
- *Compost making machine*

26: Regarding conducting Inspirational lectures by well known personalities

The departments have been instructed to conduct this activity in the next Academic Year.

27: Regarding fund creation for financial support to meritorious students from economically weaker sections of the society

- *A faculty coordinator has been appointed to coordinate activities and to create a fund for partially supporting deserving, meritorious students belonging to economically weaker sections of society. For generating fund for this efforts will be made to get assistance through (i) The fund allocated to leading public sector companies under their Corporate Social Responsibility (CSR) (ii) The Alumni (iii) Social contributions/donations etc.*

28: Regarding alumni engagements and enhancement of alumni interaction

- *An **Alumni Coordinator** has been appointed in each Department to strengthen the alumni interaction and to build an independent alumni network for the benefit of the students.*
- *Efforts will be made from the next semester to create a database of alumni in the department and to conduct departmental alumni meets to facilitate interaction between the present students and the alumni.*

29: Enhancing collaboration with other institutions/organizations:

- ***Abhigyan Abhikaushalam Students' Forum** (AASF) in collaboration with ABV-IIITM has been started (MoU signed) for collaborating and conducting inter-institute events as well as knowledge sharing among students from different colleges.*
- *The Institute has entered into a collaboration with PDPM Indian Institute of Information Technology Design & Manufacturing (IIITDM), Jabalpur under the Electronics & ICT Academy (an initiative of Ministry of Electronics and Information Technology, Govt. of India) for conducting Joint Faculty Development Programmes.*

  *As a consequence, Institute will be recognized as **Nodal (Remote) Center of Electronics & ICT Academy PDPM IIITDM Jabalpur**. This collaboration will explore new dimensions for the faculty and research scholars of the institute and of the entire region. Under the said collaboration, different training programmes/courses relating to emerging interdisciplinary trends/areas will be organized.*

  In the near future, it is proposed to organize following summer programmes
  - *ANN and Deep Learning (11-15 June 2018)*
  - *Internet of Things (IoT) (18-22 June 2018)*

- *The Institute has become a partner under the initiative Called "**Making Deep Learning and AI skills mainstream in India by Royal Academy of Engineering, UK"** to fulfil trilateral needs of entrepreneurship, Industry-Academia partnership and application-inspired Engineering Research".*

  *As a Partner, Faculty members and students of MITS Gwalior will be trained on the aspects relating to AI and deep learning technologies with the opportunity to work at **Supercomputing lab of Bennett University**.*
  Moreover, students will be offered internship opportunity based on selection criteria.

30: Regarding student attendance and effectiveness of remedial/performance improvement classes:

- *The faculty In-charge for Remedial & Bridge Classes and a team of departmental coordinators were appointed for increasing the effectiveness of this activity.*
- *The team has been able to motivate a few students to attend a few classes.*
- *The overall percentage of students who attended these classes is about 26% which is expected to improve in the next semester.*

S.No.	***Name of the Department***	***Faculty coordinator***	***% of students benefited***
1	*Civil Engineering*	*Prof. Aditya Agrawal*	*29.72*
2	*Mechanical/Automobile Engineering*	*Prof. V. Chaturvedi*	*43.5*
3	*Electrical Engineering*	*Prof. K. Swarnkar*	*31.27*
4	*ET/Electronics Engineering*	*Prof. R.P. Narwaria*	*28.97*
5	*CSE & IT*	*Dr. Sanjiv Sharma*	*Nil*
6	*Chemical Engineering*	*Prof. Sumint S.Trivedia*	*Nil*
7	*Biotechnology*	*Dr. Sunita Sharma*	*38*
8	*Physics* *Chemistry* *Mathematics*	*Dr. S. Bhattacharya* *Dr. Anjula Gaur* *Dr. Vikas Shinde*	*92.0* *58.0* *18.19*
9.	*MCA*	*Prof. Parul Saxena*	*56.18*
10.	*Architecture*	*Dr. Anjali Patil*	*69.58*

FEEDBACK ALUMNI, EMPLOYERS, STUDENTS

FACULTY FEEDBACK INDEX (FFI)

(SUMMARY SHEET: A SAMPLE)

Class	III Year (Biotech)									
Criterion	Faculty feedback index (FFI)									
	Prof. Urvashi Garud/ Principles of Management & Economics		Prof. Rahul Anand/ Enzyme Technology		Prof. Vinod K. Jatav/ Bioinformatics		Dr. Sunita Sharma/ Immunotechnology		Prof. Sachin R. Geed/ Biochemical Reaction Engineering	
Has good teaching ability	4.40	4.33	3.60	3.50	4.00	3.17	5.00	4.67	4.40	4.33
Teaching style interactive/involving students	4.40	4.33	3.60	3.33	3.60	3.50	4.40	4.33	4.20	4.17
Adequate coverage of course content	4.40	4.33	3.20	3.17	4.00	3.00	4.40	3.83	4.20	4.33
Voice is audible	4.40	4.17	3.00	2.50	3.80	3.50	4.60	4.17	4.40	4.17
Good communication skills	4.80	4.50	3.80	3.33	3.20	3.33	5.00	4.50	4.60	4.50
Has ability to control class	4.20	4.00	4.00	3.50	4.00	3.33	4.80	4.17	4.80	4.33
Has ability to motivate/create interest in subject	4.60	4.17	3.80	3.17	4.00	3.17	4.80	4.67	4.80	4.33
Relates subject with practical examples	4.40	4.50	3.40	3.17	4.00	3.50	4.80	3.83	4.80	4.33
Is approachable & helping	4.60	4.33	3.60	3.33	4.00	3.17	4.60	4.00	5.00	4.50
Provides study material/notes etc	4.40	4.17	3.00	2.67	4.00	3.83	4.40	3.00	4.60	4.33
Inspires students for good behavior and ethical conduct	4.60	4.50	3.60	3.33	4.00	3.17	4.40	4.33	5.00	4.50
Use of innovative teaching methods	4.60	4.17	3.40	3.17	3.40	3.50	4.60	4.17	4.60	4.33
Shows no gender bias	4.80	4.50	4.40	4.00	4.40	3.83	5.00	4.50	5.00	4.67
Course well designed and structured	4.60	4.33	3.60	3.33	3.60	3.83	4.40	4.00	4.80	4.17
Average FFI	**4.51 (I)**	**4.31 (II)**	**3.57 (I)**	**3.25 (II)**	**3.85 (I)**	**3.42(II)**	**4.65 (I)**	**4.2(II)**	**4.66 (I)**	**4.35(II)**

FACULTY FEEDBACK INDEX (FFI)

(SUMMARY SHEET: A SAMPLE)

Class	II Year (Biotech)									
Criterion	Faculty feedback index (FFI)									
	Prof. Rahul Anand /Instrumentation		Dr. Sunita Sarma RDT		Prof. Prangya R.Rout/ Environmental Engg.		Dr. Sharad Verma Microbial Technology		Prof. Shikha Jha Biomaterials	
Has good teaching ability	3.20	3.60	4.00	3.80	4.00	4.80	3.20	3.80	4.20	4.60
Teaching style interactive/involving students	3.00	3.00	4.00	3.60	4.40	5.00	3.40	3.80	4.40	4.50
Adequate coverage of course content	3.60	4.00	3.60	3.00	4.20	4.40	3.60	3.60	4.40	4.80
Voice is audible	3.20	3.60	4.20	4.20	4.40	4.80	3.60	4.60	4.20	4.80
Good communication skills	3.40	3.60	4.00	4.00	4.40	4.80	3.80	4.40	4.20	5.00
Has ability to control class	3.00	3.60	4.60	4.40	4.00	4.80	3.40	4.60	4.40	4.60
Has ability to motivate/create interest in subject	3.20	3.40	4.00	4.00	4.40	5.00	3.20	3.60	4.60	5.00
Relates subject with practical examples	3.80	4.00	3.60	3.60	4.00	5.00	3.20	3.60	4.60	5.00
Is approachable & helping	3.60	4.20	3.60	4.20	4.20	5.00	3.40	3.60	4.40	4.80
Provides study material/notes etc	4.00	3.80	3.80	4.00	3.80	5.00	3.40	4.60	4.40	5.00
Inspires students for good behavior and ethical conduct	3.40	3.60	4.20	4.00	4.60	5.00	3.40	3.80	4.40	5.00
Use of innovative teaching methods	3.60	3.40	3.80	3.60	3.60	4.60	3.40	3.60	4.20	4.80
Shows no gender bias	3.40	3.60	4.00	4.00	4.20	4.80	3.40	4.00	4.00	4.80
Course well designed and structured	3.60	4.00	3.80	2.80	3.20	4.60	3.00	3.40	4.20	5.00
Average FFI	3.43 (I)	3.67 (II)	3.94 (I)	3.80 (II)	4.10 (I)	4.83 (II)	3.38 (I)	3.93(II)	4.34 (I)	4.64 (II)

FACULTY FEEDBACK INDEX (FFI)

(**SUMMARY SHEET: A SAMPLE**) April-2018

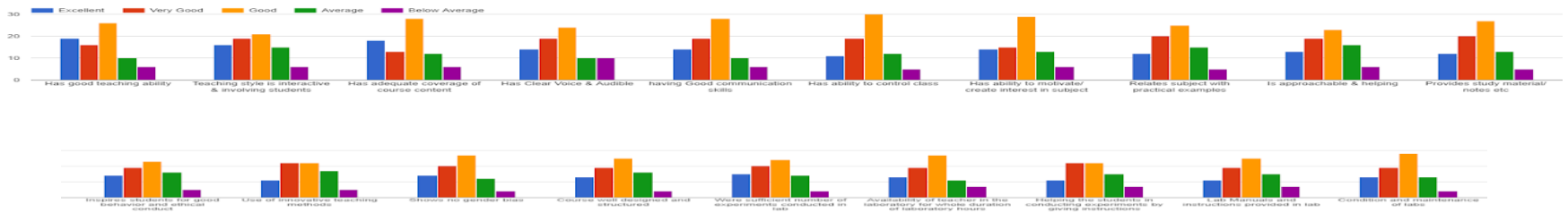
Class	III Year (Biotech)				
Criterion	Faculty feedback index (FFI)				
	Prof. Urvashi Garud/ Principles of Management & Economics	Prof. Rahul Anand/ Enzyme Technology (Elective-II)	Prof. Vinod K. Jatav/ Bioinformatics	Dr. Sunita Sharma/ Immunotechnology	Prof. Sachin R. Geed/ Biochemical Reaction Engineering
Has good teaching ability	4.33	3.50	3.17	4.67	4.33
Teaching style interactive/involving students	4.33	3.33	3.50	4.33	4.17
Adequate coverage of course content	4.33	3.17	3.00	3.83	4.33
Voice is audible	4.17	2.50	3.50	4.17	4.17
Good communication skills	4.50	3.33	3.33	4.50	4.50
Has ability to control class	4.00	3.50	3.33	4.17	4.33
Has ability to motivate/create interest in subject	4.17	3.17	3.17	4.67	4.33
Relates subject with practical examples	4.50	3.17	3.50	3.83	4.33
Is approachable & helping	4.33	3.33	3.17	4.00	4.50
Provides study material/notes etc	4.17	2.67	3.83	3.00	4.33
Inspires students for good behavior and ethical conduct	4.50	3.33	3.17	4.33	4.50
Use of innovative teaching methods	4.17	3.17	3.50	4.17	4.33
Shows no gender bias	4.50	4.00	3.83	4.50	4.67
Course well designed and structured	4.33	3.33	3.83	4.00	4.17
Average FFI	4.31	3.25	3.42	4.2	4.35

FACULTY FEEDBACK INDEX (FFI)

(**SUMMARY SHEET**: **A SAMPLE**) April-2018

Class	II Year (Biotech)				
Criterion	Faculty feedback index (FFI)				
	Prof. Rahul Anand/Instrumentation	Dr. Sunita Sharma/RDT	Prof. Prangya R. Rout/Environmental Engg.	Microbial Technology/ Dr. Sharad Verma	Biomaterials/ Prof. Shikha Jha
Has good teaching ability	3.60	3.80	4.80	3.80	4.60
Teaching style interactive/involving students	3.00	3.60	5.00	3.80	4.50
Adequate coverage of course content	4.00	3.00	4.40	3.60	4.80
Voice is audible	3.60	4.20	4.80	4.60	4.80
Good communication skills	3.60	4.00	4.80	4.40	5.00
Has ability to control class	3.60	4.40	4.80	4.60	4.60
Has ability to motivate/create interest in subject	3.40	4.00	5.00	3.60	5.00
Relates subject with practical examples	4.00	3.60	5.00	3.60	5.00
Is approachable & helping	4.20	4.20	5.00	3.60	4.80
Provides study material/notes etc	3.80	4.00	5.00	4.60	5.00
Inspires students for good behavior and ethical conduct	3.60	4.00	5.00	3.80	5.00
Use of innovative teaching methods	3.40	3.60	4.60	3.60	4.80
Shows no gender bias	3.60	4.00	4.80	4.00	4.80
Course well designed and structured	4.00	2.80	4.60	3.40	5.00
Average FFI	3.67	3.80	4.83	3.93	4.64

4. Dr.S. Wadhwani (Linear Control Systems,BEEL- 404)



19	**16**	**26**	**10**	**6**	3.415584	Has good teaching ability
16	**19**	**21**	**15**	**6**	3.311688	Teaching style interactive/involving students
16	**13**	**28**	**12**	**6**	3.28	Adequate coverage of course content
14	**19**	**24**	**10**	**10**	3.220779	Voice is audible
14	**19**	**28**	**10**	**6**	3.324675	Good communication skills
11	**19**	**30**	**12**	**5**	3.246753	Has ability to control class
14	**15**	**29**	**13**	**6**	3.233766	Has ability to motivate/create interest in subject
12	**20**	**25**	**15**	**5**	3.246753	Relates subject with practical examples
13	**19**	**23**	**16**	**6**	3.220779	Is approachable & helping
12	**20**	**27**	**13**	**5**	3.272727	Provides study material/notes etc
14	**19**	**23**	**16**	**5**	3.272727	Inspires students for good behaviour and ethical conduct
11	**22**	**22**	**17**	**5**	3.220779	Use of innovative teaching methods
14	**20**	**27**	**12**	**4**	3.363636	Shows no gender bias
13	**19**	**25**	**15**	**4**	3.289474	Course well designed and structured

Average Index **3.280009** **(on a scale of 5) (5: Excellent; 4:V Good; 3:Good; 2: Average;1: Below average)**

Comments:

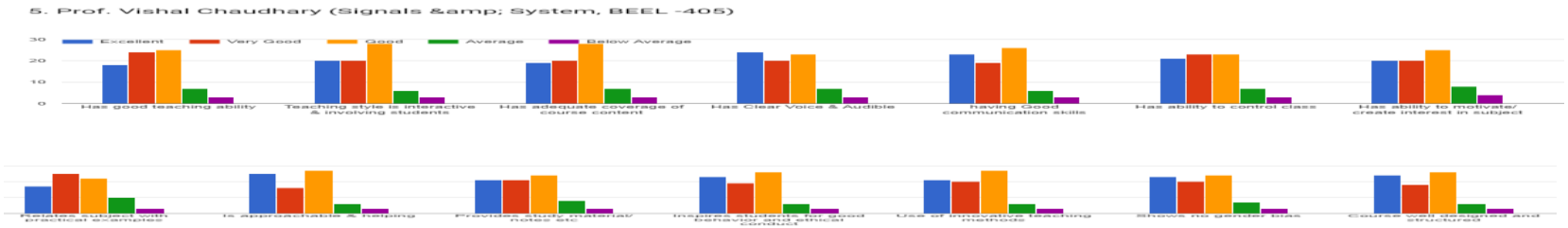
Points of appreciation: Adequate Teaching style interactive/involving students, Has good teaching ability ,Shows no gender bias ,Good communication skills

Points needing improvement: ability to motivate/create interest in subject ,Voice is audible, Is approachable & helping

(Prof. **Dr. S. Wadhwani**) HoD Director

Month :April 2018

Annexure III



18	**24**	**25**	**7**	**3**	3.61039	Has good teaching ability
20	**20**	**28**	**6**	**3**	3.623377	Teaching style interactive/involving students
19	**20**	**28**	**7**	**3**	3.584416	Adequate coverage of course content
24	**23**	**20**	**7**	**3**	3.753247	Voice is audible
23	**19**	**26**	**6**	**3**	3.688312	Good communication skills
21	**23**	**23**	**7**	**3**	3.675325	Has ability to control class
20	**20**	**25**	**8**	**4**	3.571429	Has ability to motivate/create interest in subject
17	**25**	**22**	**10**	**3**	3.558442	Relates subject with practical examples
25	**16**	**27**	**6**	**3**	3.701299	Is approachable & helping
21	**21**	**24**	**8**	**3**	3.636364	Provides study material/notes etc
23	**19**	**26**	**6**	**3**	3.688312	Inspires students for good behaviour and ethical conduct
21	**20**	**27**	**6**	**3**	3.649351	Use of innovative teaching methods
23	**20**	**24**	**7**	**3**	3.688312	Shows no gender bias
24	**16**	**26**	**6**	**3**	3.693333	Course well designed and structured

Average Index **3.651565** **(on a scale of 5) (5: Excellent; 4:V Good; 3:Good; 2: Average;1: Below average)**

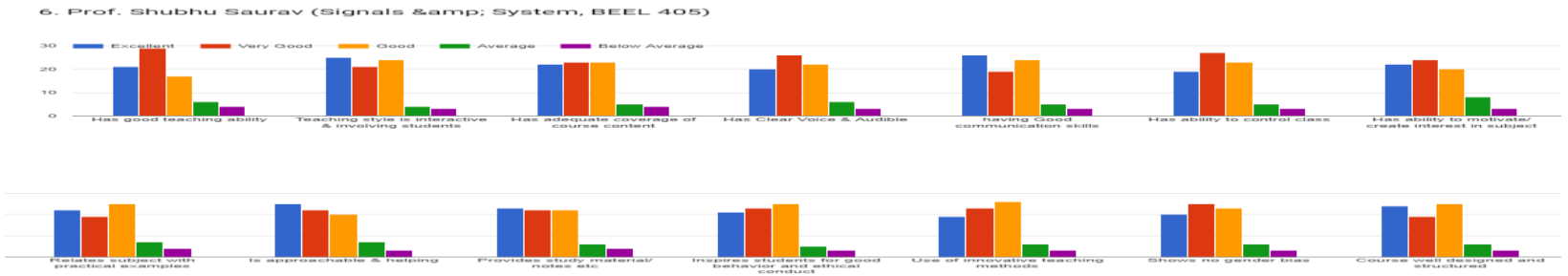
Comments:

Points of appreciation: Adequate Voice is audible, Is approachable & helping ,Course well designed and structured

Points needing improvement: Relates subject with practical examples, ability to motivate/create interest in subject

Prof. (Vishal Chaudhary) HoD Director

Month :April 2018



21	**29**	**17**	**6**	**4**	3.74026	Has good teaching ability
25	**21**	**24**	**14**	**3**	3.586207	Teaching style interactive/involving students
22	**23**	**23**	**5**	**4**	3.701299	Adequate coverage of course content
20	**26**	**22**	**6**	**3**	3.701299	Voice is audible
26	**19**	**24**	**5**	**3**	3.779221	Good communication skills
17	**27**	**23**	**5**	**3**	3.666667	Has ability to control class
22	**24**	**20**	**8**	**3**	3.701299	Has ability to motivate/create interest in subject
22	**19**	**25**	**7**	**4**	3.623377	Relates subject with practical examples
25	**22**	**20**	**7**	**13**	3.448276	Is approachable & helping
23	**22**	**22**	**6**	**4**	3.701299	Provides study material/notes etc
21	**23**	**25**	**5**	**3**	3.701299	Inspires students for good behaviour and ethical conduct
19	**23**	**26**	**6**	**3**	3.636364	Use of innovative teaching methods
20	**25**	**23**	**6**	**3**	3.688312	Shows no gender bias
24	**19**	**25**	**6**	**3**	3.714286	Course well designed and structured
				Average Index	**3.670676**	**(on a scale of 5) (5: Excellent; 4:V Good; 3:Good; 2: Average;1: Below average)**

Comments:

Points of appreciation: Adequate Has good teaching ability,Good communication skills,Voice is audible,Adequate coverage of course content

Points needing improvement: try to approachable & helping , try to Relates subject with practical examples

(Prof. Shubhu Saurav) HoD Director

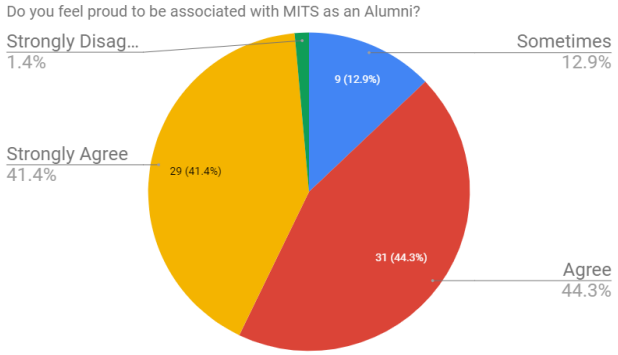
Month :April 2018

Alumni Satisfaction Survey 2018

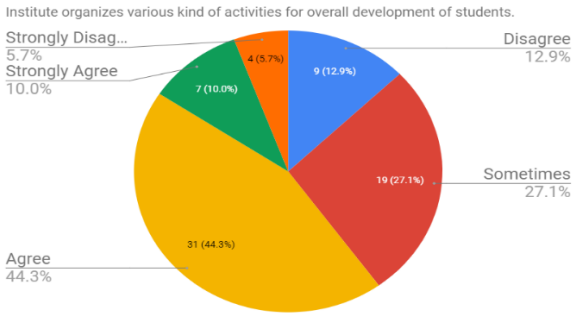
Sample Size: 70

Alumni Feedback is being collected from students who have graduated between 2002 to 2016. A mix of alumni from all branches, working in Private Sector/ Government Sector/ and other Interdisciplinary areas from all over India is selected. A total of 70 responses on 10 general parameters, as shown below on the scale of 5 to 1 (Strongly Disagree to Strongly Agree) has been selected for analysis:

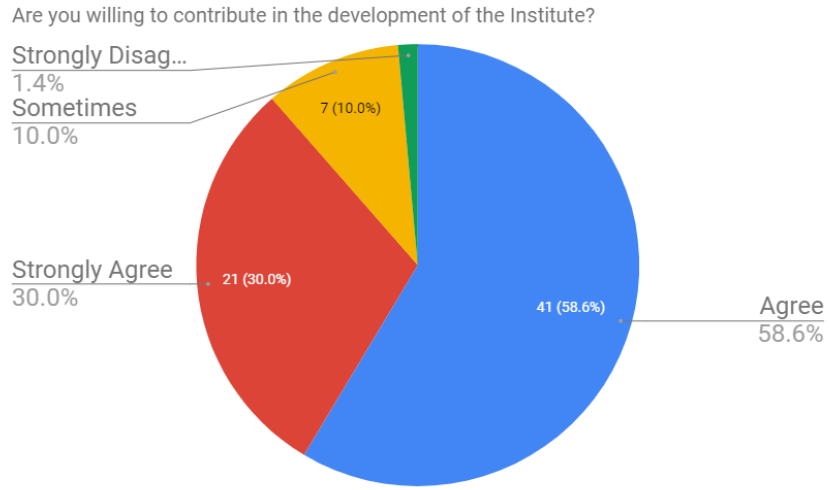
1. Do you feel proud to be known as an MITS Alumnus?



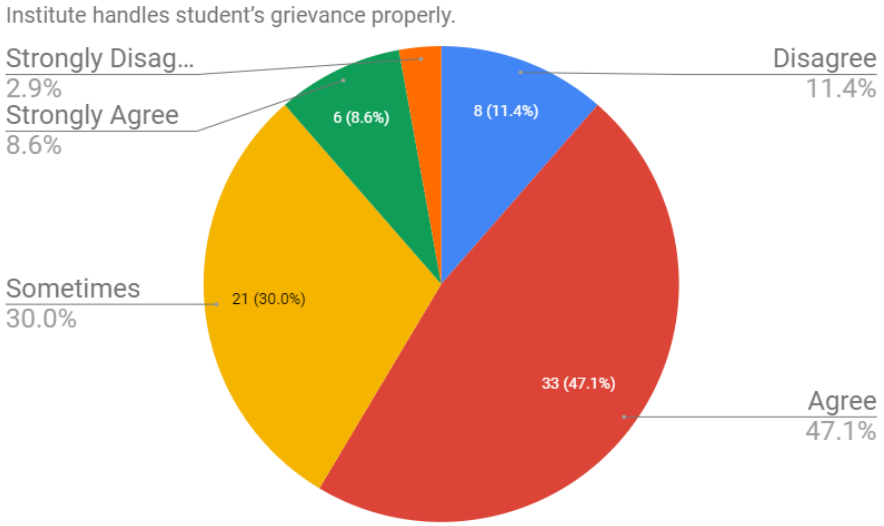
2. Institute organizes various kinds of activities for the overall development of students.



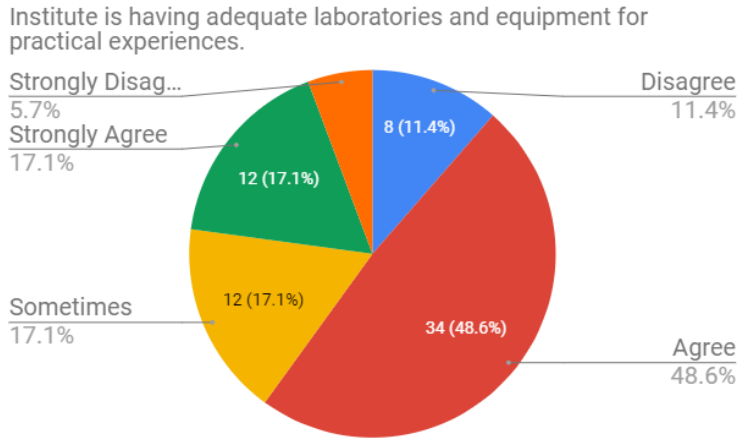
3. Are you willing to contribute in the development of the Institute?



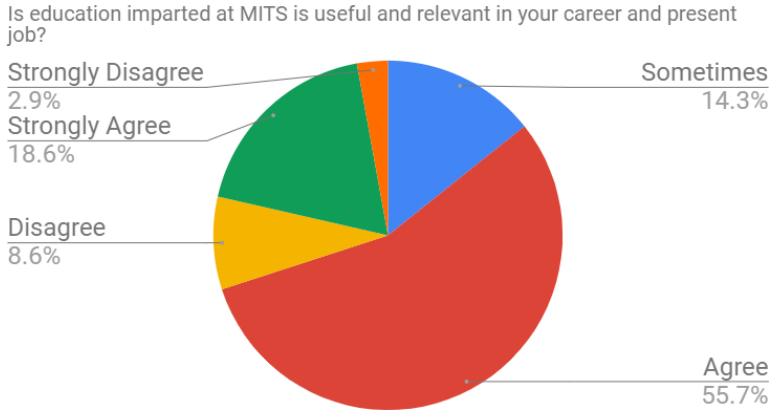
4. Institute handles student's grievances properly.



5. Institute has adequate laboratories and equipment for practical exposure to students.

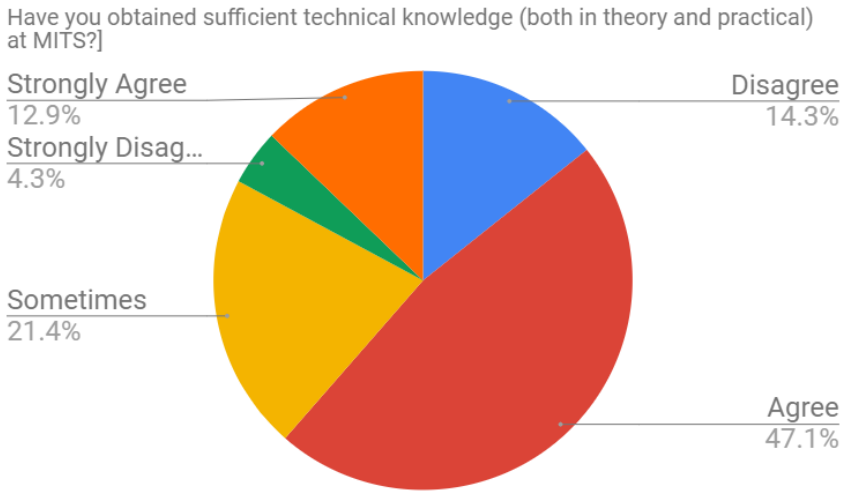


6. The education imparted at MITS is useful and relevant in your career and present job.

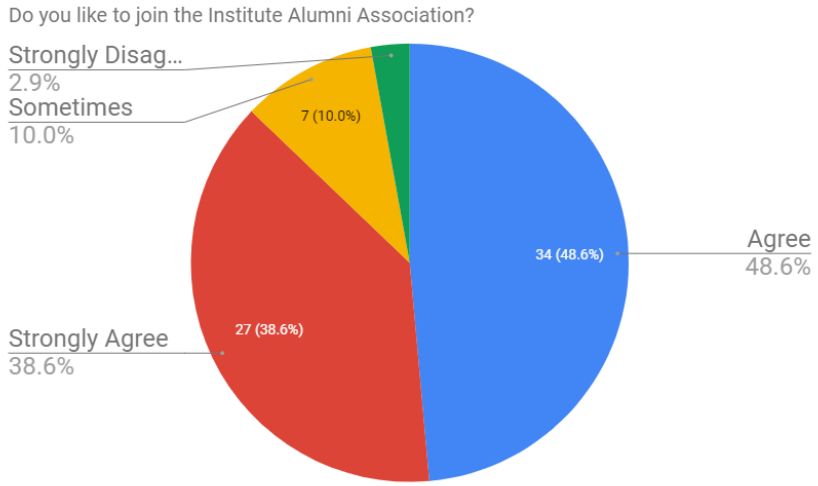


X

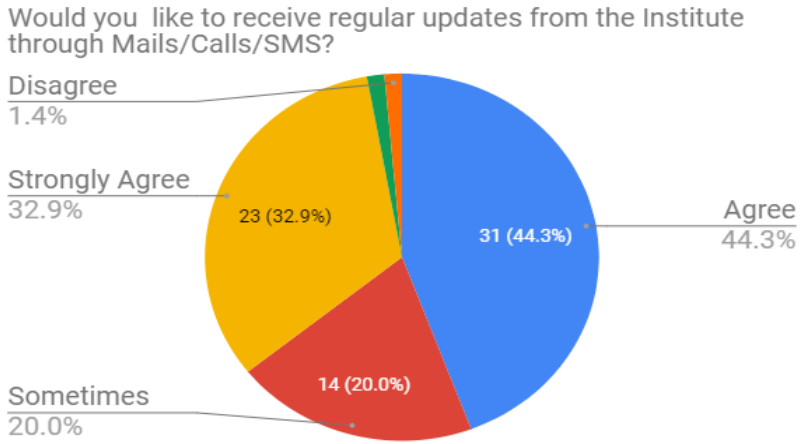
7. Have you obtained sufficient technical knowledge (both in theory and practical) at MITS?



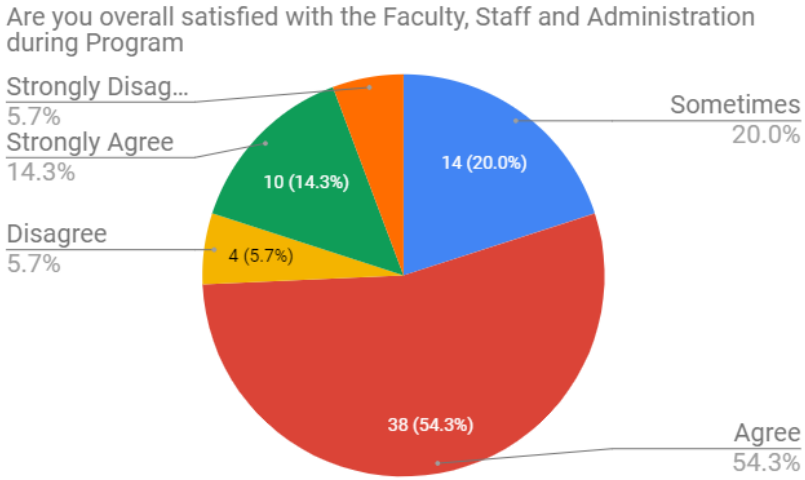
8. Do you like to join the Institute Alumni Association?



9. Would you like to receive regular updates from the Institute through Mails/Calls/SMS?



10. Overall are you satisfied with the Faculty, Staff and Administration during Program



Computation of Alumni Satisfaction Index

General parameters	Strongly Disagree	Disagree	Sometimes	Agree	Strongly Agree	**Alumni Satisfaction Index (Out of 5)**
You feel proud to be known as an MITS Alumnus	1	0	9	31	29	**4.24**
Institute organizes various kinds of activities for the overall development of students	4	9	19	31	7	**3.4**
Are you willing to contribute in the development of the Institute	1	0	7	41	21	**4.16**
Institute handles student's grievances properly	2	8	21	33	6	**3.47**
Institute has adequate laboratories and equipment for practical exposure to students	4	8	12	34	12	**3.6**
The education imparted at MITS is useful and relevant in your career and present job	2	6	10	39	13	**3.78**
Have you obtained sufficient technical knowledge (both in theory and practical) at MITS	3	10	15	33	9	**3.5**
Do you like to join the Institute Alumni Association	2	0	7	34	27	**4.2**
Would you like to receive regular updates from the Institute through Mails/Calls/SMS?	1	1	14	31	23	**4.05**
Overall are you satisfied with the Faculty, Staff and Administration during Program	4	4	14	38	10	**3.65**

Summary of Alumni Suggestion for improvement

S. No.	Suggestion	Corrective Actions
1.	Need to update the laboratory as per new technology available in market so hat	• Laboratory modernization is in process • Departments have been issued instructions to allot Industry Focused Projects with co-guides from industry (if possible)

	students have sufficient knowledge after graduating from the institute. Students strongly feel that there is a need to have more focus on Practical exposure. Conduct more field trips to nearby industries Small project on real scenario should be part of curriculum Project component must be added as the final evaluation of all the courses Allow students to go for internships, don't block them in name of attendance. In today's time most of the internships get converted to full time very easily. More industrial case studies, visits and counselling will help student plan their career in the field itself	• MoUs to be signed with industries to enhance interaction • Field trips and industry visits are mandatory; arranged by all departments • Experts from Industry are invited for lectures and interaction • Internships are mandatory; provision for internship for full term in VIII semester • Career counselling sessions are conducted on a routine basis
2.	Need to update curriculum from time to time	• Syllabi is being updated regularly • Flexible curriculum has been implemented • SWAYAM/NPTEL courses are being conducted mandatorily at II and III year levels, to familiarize students with on-line courses. • Value added courses are launched to increase student skills and employability options

3.	More elective courses should be offered. . All the permanent faculty is Post graduate I guess, so they can offer courses in the area of their specialization	In the Flexible curriculum that is implemented w.e.f batch admitted in academic session July 2017 there is a ratio of core/departmental/open electives in percentage is 30:12:9.
4.	More faculty members need to be hired to reduce the load on faculty	• Full-time Faculty from NPIU and contract faculty available in all departments to support regular faculty. • Recruitment of permanent faculty is also in process.
5.	Encourage students to participate in competitive programming. Institute should provide more exposure to students for their all round development	• There are 07 professional society chapters and more than 30 active clubs in the institute. • Many such events are routinely organized by the professional society chapters and student clubs. • Many students also go to other institutes for participating in events. • At the final year level one credit has been assigned to Innovative Technical Contribution to encourage student participation in such events
6.	There should be a research and innovation lab in every department.	Innovations are supported by the institute when proper proposals are received.
7.	Development of entrepreneurial cell and guidance to students for better career growth. Involvement in curriculum activities will also make a huge difference.	Start-up cell ahs started functioning in the Institute Student feedback is taken before the Board of Studies meeting
8.	Library should be open for 24*7.	Timings are increased whenever there is a higher demand for library

Employer Satisfaction Survey Report

Sample Size: 25

Employer feedback is collected on a routine basis, whenever company executives come for recruitment and also after the campus placement process is over.

The following feedback was received from the 25 companies listed below on the performance of our students a few years after joining their orgnization.

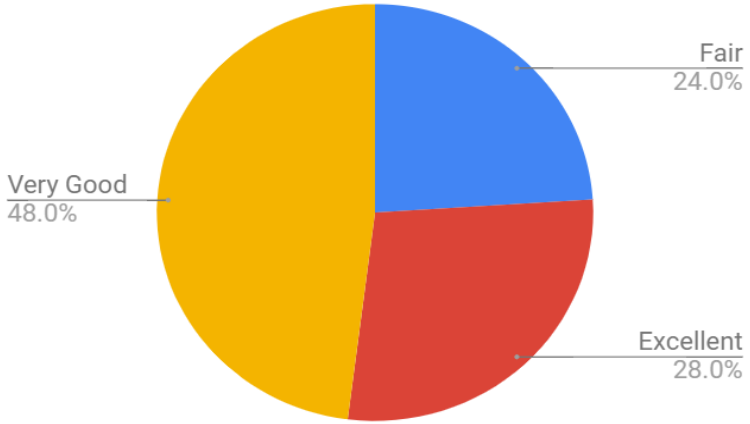
Delhi International Airport Ltd	Zensar Technologies Pvt. Ltd.	The Indian Hume Pipe Co. Ltd.
GPC Sheopur	Gartner	Grasim Industries limited Unit-Indian
Persistent Systems Ltd.	MPWater Resource Development	Dilip Buildcon Limited Bhopal
Quikr	MPMKVVCL BHOPAL	Schneider Electric Infrastructure Ltd
VEM Technologies	Xavient Digital Powered by Telus International	Bharat Oman Refinery Limited
Persistent Systems Private Limited	HCIL, Gurgaon	Department of Revenue, MP
Samrat Ashok Technological Institute, Vidisha M.P.	Britannia Industries Limited	Madhya Pradesh Rural Engineering Services
Accenture	MP Rural Road Development Authority	Jamna Auto Industries Limited
		Lovely Professional University

Computation of Employer Satisfaction Index (Sample Size: 25)

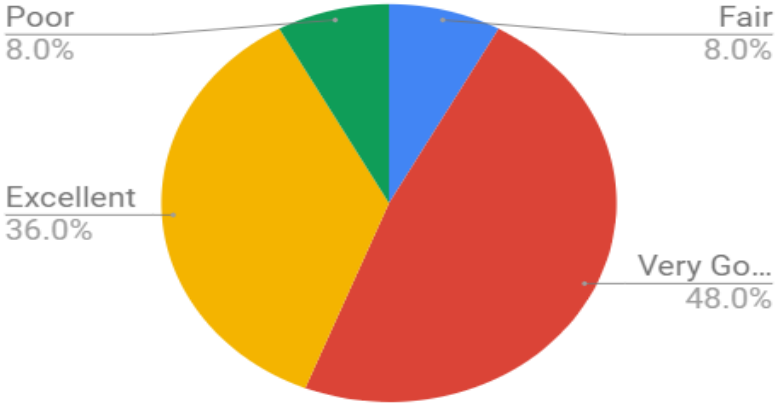
	Very Poor	Poor	Fair	Very Good	Excellent	**Employer Satisfaction Index**
Level of technical contribution	0	0	6	12	7	**4.04**
Ability to learn new areas, engage in professional development, and adapt to technological changes	0	2	2	12	9	**4.12**
Do they deserve elevation to higher level	0	1	3	11	10	**4.2**
Level of ethical and social responsibility	1	0	4	11	9	**4.08**
Demonstrated ability to work well on a team	1	0	2	10	12	**4.28**

Feedback on accomplishments of graduates from MITS Gwalior, (focusing on their few years performance after graduation) on the following points:-

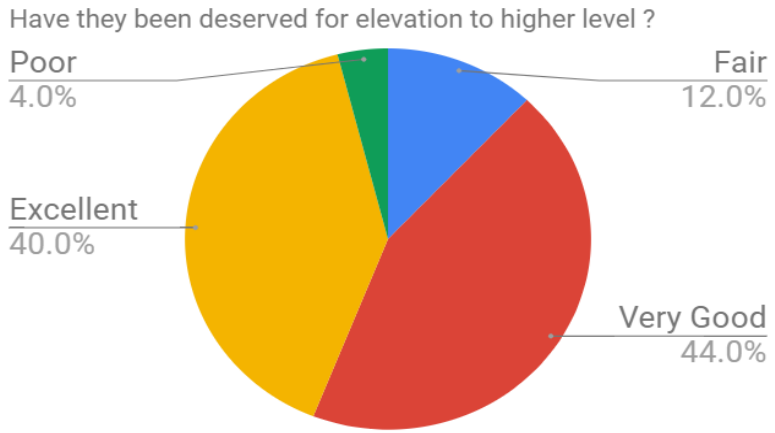
1. Level of technical contribution



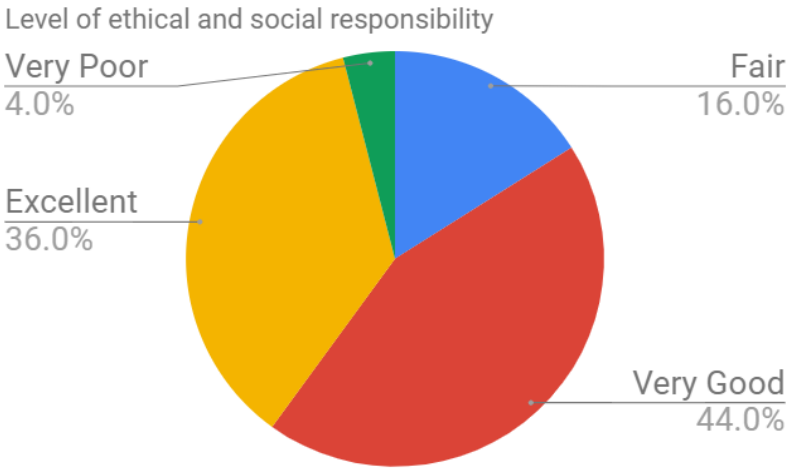
2. Level of success in learning new areas, engaging in professional development, and adapting to technological change



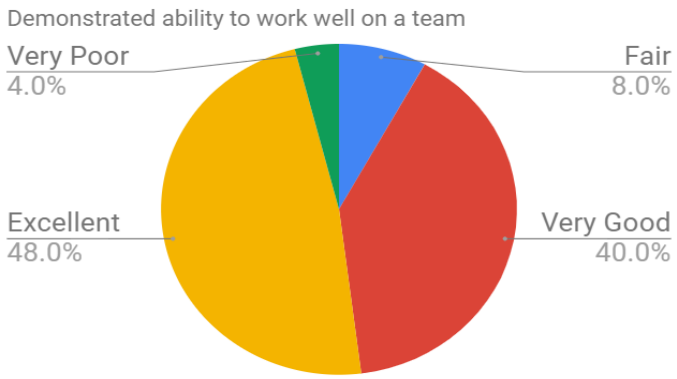
3. Do they deserve elevation to higher level ?



4. Level of ethical and social responsibility



5. Demonstrated ability to work well on a team



6. Other Comments Posted by Employers:-

Good technical knowledge
GOOD. KEEP IT UP
Hardworking & smart students
He is having good technical knowledge as well as great dedication and attitude towards any given task. He is having great potential to grow in our organization.
Mr Tushar is sincere and hard working.and is an asset to the university.
Nicholas is a great addition to the team. He has shown good acumen to research new technology and solutions and find the best possible usage out of that.
Overall Good Candidates
Please make your study environment as per private companies standard.
Positive, dynamic, fast learner, good team performer.
Require more Co -Operation and Co-Ordination.

FACULTY PARTICIPATION FOR TRAINING/CONFERENCE/WORKSHOP ETC.

S. No.	Name of faculty	Name of event	Event venue	Date(s)	Duration
Civil Engineering					
1	Prof.Aditya Agrawal	Foundation course on human value & professional ethics	K D.K.College of Engineering ,Nagpur	18-22 Dec,2017	5 days
2	Dr. Rajeev Kansal	Induction programme for new students (under TEQIP-III)	SGSITS, Indore (M.P.)	22 – 24 sep. 2017	3 days
3	Prof. A. Tiwari , Dr. R. Kansal, Dr. S.K. Jain , Dr. M.K. Trivedi, Dr. S. Tiwari, Prof. A.K. Saxena, Prof. D. Rastogi, Prof. A.K. Agarwal	STTP on "Assuring Global Quality in Technical Education Through Outcome Based Education"	MITS Gwalior	10.03.2018 to 14.03.2018	5 days
4	Prof. Gautam Bhadoriya, Prof. A.K. Dwivedi	FDP on "Optimization Techniques and its Engineering Applications"	MITS Gwalior	15^{th}- 19^{th} March 2018	5 days
5	Dr. R. Kansal, Prof D. Rastogi, Prof A.K. Saxena, Prof.Aditya Agrawal, Prof Nupur Verma	Gian course on Suitability in the Built Environment	MITS, Gwalior	19 to 30^{th} march 2018	Two weeks
6	Prof. Shivendra S. Kushwah	Recent Advances in Civil, Structural and Geotechnical Engineering for Infrastructure Development-1 (RACSGEID-2017)	IGS Jaipur Chapter Department of Ciivl Engineering	23Sept. 2017 to 24 Sept. 2017	2 days
7	Prof. A. Tiwari , Dr. S.K. Jain ,	Summer Training Program on	IIT Indore ,	25 June to 29	5 days

	Dr. M.K. Trivedi, Dr. S. Tiwari , Prof. A.K. Saxena , Prof. A.K. Dwivedi Prof. G. Bhadoria	Active Learning	Department of Civil Engineering	June 2018	
Mechanical Engineering					
1.	Dr. Dharmedra Jain	Faculty Induction Program	IIT Hyderabad	25-01-2018 To 29-01-2018	5 Days
2.	Prof. Utkarsh Srivastav	Faculty Induction Program	IIT Hyderabad	25-01-2018 To 29-01-2018	5 Days
3.	Prof. Ajay Singh Rajput	Faculty Induction Program	IIT Hyderabad	25-01-2018 To 29-01-2018	5 Days
4.	Prof. Deepak Kumar	Faculty Induction Program	IIT Hyderabad	25-01-2018 To 29-01-2018	5 Days
5.	Pro. Krishan Kumar Yadav	Faculty Induction Program	IIT Hyderabad	25-01-2018 To 29-01-2018	5 Days
6.	Prof Subash Chand Pal	Faculty Induction Program	IIT Hyderabad	25-01-2018 To 29-01-2018	5 Days
7.	Prof. Sumeet Kumar Singh	Faculty Induction Program	IIT Hyderabad	25-01-2018 To 29-01-2018	5 Days
8.	Prof. Dilip Kumar Verma	Faculty Induction Program	IIT Hyderabad	25-01-2018 To 29-01-2018	5 Days
9.	Prof. Shubham Srivastava	Faculty Induction Program	IIT Kanpur	09-02-2018 To 13-02-2018	5 Days
10.	Prof. Shubham Srivastava	Short Term Course	SATI, Vidisha	11-05-2018 To 15-05-2018	5 Days
11.	Prof. M.K. Sagar	Summer training program	IIT, Indore	18-06-2018 To 22-06-2018	1 week
12.	Prof. Pratesh Jayaswal	Summer training program	IIT, Indore	18-06-2018 To 22-06-2018	1 week
13.	Prof. C.S. Malvi	Summer training program	IIT, Indore	18-06-2018 To 22-06-2018	1 week
14.	Prof. R.P. Kori	Summer training program	IIT, Indore	18-06-2018 To 22-06-2018	1 week

15.	Prof. Vedansh Chaturvedi	Summer training program	IIT, Indore	18-06-2018 To 22-06-2018	1 week
16.	Prof. Dinesh Kasdekar	Summer training program	IIT, Indore	18-06-2018 To 22-06-2018	1 week
17.	Prof. Sharad Agarwal	Summer training program	IIT, Indore	18-06-2018 To 22-06-2018	1 week
18.	Prof. Vaibhav Shivhare	Summer training program	IIT, Indore	18-06-2018 To 22-06-2018	1 week
19.	Dr. Amit Aherwar	Summer training program	IIT, Indore	18-06-2018 To 22-06-2018	1 week
20.	Prof. Bhupendra Pandey	Summer training program	IIT, Indore	18-06-2018 To 22-06-2018	1 week
21.	Dr. Jyoti Vimal	Foundation course of Human values and professional ethics	KDK, Nagpur	18-12-2017 To 22-12-2017	1 week
22.	Dr. Dharmedra Jain	Teachers training program	NITTTR, Bhopal	25-06-2018 To 29-06-2018	1 week
23.	Prof. Krishan Kumar Yadav	Teachers training program	NITTTR, Bhopal	25-06-2018 To 29-06-2018	1 week
24.	Prof. Krishan Kumar Yadav	Induction Program	SGSITS, Indore	04-06-2018 To 06-06-2018	03 Days
25.	Prof. M.K. Sagar	Faculty development programme	DTU, Delhi	04-06-2018 To 08-06-2018	05 Days
Electrical Engineering					
1.	Dr. Laxmi Srivastava	Training Programme on Renewable Energy Generation - Integration with Grid and Storage Batteries	Engineering Staff College of India (ESCI), Hyderabad	05 – 08 June 2018	One week
2.	Dr. Manjaree Pandit	Training Programme on Renewable Energy Generation - Integration with Grid and Storage Batteries	Engineering Staff College of India (ESCI), Hyderabad	05 – 08 June 2018	One week
3.	Prof. Ashis Patra	Short term course on Assuring Global Quality in Technical Education Through Outcome Based	MITS Gwalior	10-14 March 2018	One Week

		Education			
4.	Prof. Ashis Patra	Short term course on Optimization Technique And its Engineering Applications	MITS Gwalior	15-19 March 2018	One Week
5.	Prof. Ashis Patra	Workshop on Digital Judiciary	MITS Gwalior	15-April 2018	One Day
6.	Dr. Hari mohan dubey	Training Programme on Renewable Energy Generation - Integration with Grid and Storage Batteries	Engineering Staff College of India (ESCI), Hyderabad	05 – 08 June 2018	One week
7.	Dr. Shishir Dixit	Short term course on Optimization Techniques and its Engineering Applications	MITS, Gwalior	15-19 March 2018	One Week
8.	Prof. Rakesh Narvey	Workshop on "Effective Techniques of Question Paper Setting: An Outcome Based Education Approach"	MITS, Gwalior	07-08 February 2018	Two Day
9.	Prof. Rakesh Narvey	Short term course on Emerging trends in Internet of things (IOT) and Cyber Security Applications in Smart Grid.	DTU New Delhi	12 – 16 March 2018	One week
10.	Prof. Himmat Singh	IEEE Int. Conf. on Power, Control, Signals and Instrumentation Engineering (ICPCSI-2017)	Saveetha Engg. College, Chennai, Tamil Nadu	21-22 September, 2017	Two Days
11.	Prof. Himmat Singh	GIAN course on Sustainability in The Built Environment	MITS, Gwalior	19-30 March 2018	Two Week
12.	Dr Vijay Bhuria	Faculty Mentors on Induction Programme for new students	SGSITS, Indore	22-24 September 2017	Three Days
13.	Dr Vijay Bhuria	South Asian Community Volunteer Conference (SA CVC 2018)	Mahabalipuram CHENNAI	2-3 February 2018	Two Days
14.	Dr Vijay Bhuria	Short term course on Assuring Global Quality in Technical Education Through Outcome Based Education	MITS, Gwalior	10-14 March 2018	One Week
15.	Dr Vijay Bhuria	Short term course on Optimization Techniques and its Engineering	MITS, Gwalior	15-19 March 2018	One Week

		Applications			
16.	Dr Vijay Bhuria	GIAN course on Sustainability in The Built Environment	MITS, Gwalior	19-30 March 2018	Two Week
17.	Prof. Kuldeep Swarnkar	Workshop on "Effective Techniques of Question Paper Setting: An Outcome Based Education Approach"	MITS, Gwalior	07-08 February 2018	Two Day
18.	Prof. Kuldeep Swarnkar	AICTE-QIP Sponsored Short Term Course on "Assuring Global Quality in Technical Education Through Outcome Based Education"	MITS, Gwalior	10-14 March 2018	One week
19.	Prof. Praveen Bansal	National workshop on Power Electronics (NWPE-2017)	IIT, Roorkee India	9-11 October 2017	Three Days
20.	Prof. Praveen Bansal	National Workshop *on Industries Innovators Entrepreneurs Facilitators and Academia* IIEFA-2017	Vigyan Bharati Bhopal	23 -24 September 2017	Two Days
21.	Prof. Vishal Chaudhary	IET Student Chapter activity Present Around The World Competition 2017	Amity University Noida	15 July 2017	One Day
22.	Prof. Vishal Chaudhary	Short Term Course on "Advanced Optimization Techniques for Engineering Applications"	NIT, Kurukshetra, Haryana	13-17 January 2018	One Week
23.	Prof. Vishal Chaudhary	AICTE Sponsored Short Term Course on "Numerical Methods in Electromagnetics"	MITS, Gwalior	27-31 January 2018	One Week
24.	Prof. Vishal Chaudhary	Workshop on "Effective Techniques of Question Paper Setting: An Outcome Based Education Approach"	MITS, Gwalior	07-08 February 2018	Two Days
25.	Prof. Vishal Chaudhary	AICTE-QIP Sponsored Short Term Course on "Assuring Global Quality in Technical Education Through Outcome Based Education"	MITS, Gwalior	10-14 March 2018	One week

26.	Prof. Vishal Chaudhary	Workshop on "Swarm and Evolutionary Algorithms: Theory and Applications"	IIT Roorkee	17-18 March 2018	Two Day
27.	Prof. Vishal Chaudhary	National Conference on Intellectual Property and Entrepreneurship	IIT Roorkee	19 March 2018	One Day
28.	Dr. A.K. Wadhwani	Short Term Training Course on Advanced Biological and Chemical Understanding of Disease and Therapeutics	IIT Indore	22-24 June 2018	Three Days
29.	Dr. A.K. Wadhwani	Summer Training Programme on Active Learning for Senior Faculty	IIT Indore	18-22 June 2018	One week
30.	Prof. Ashish Patra	Summer Training Programme on Active Learning for Senior Faculty	IIT Indore	18-22 June 2018	One week
31.	Dr. Sulochana Wadhwani	Workshop on Outcome Based education for engineering programs	AICTE New Delhi	08-09 February 2018	Two Days
32.	Dr. Sulochana Wadhwani	Summer Training Programme on Active Learning for Senior Faculty	IIT Indore	18-22 June 2018	One week
33.	Dr. Shishir Dixit	Summer Training Programme on Active Learning for Senior Faculty	IIT Indore	18-22 June 2018	One week
34.	Prof. Rakesh Narvey	Summer Training Programme on Active Learning for Senior Faculty	IIT Indore	18-22 June 2018	One week
35.	Prof. Himmat Singh	Summer Training Programme on Active Learning for Senior Faculty	IIT Indore	18-22 June 2018	One week
36.	Dr. Vijay Bhuria	IET Student Chapter activity Present Around The World Competition 2017	Amity University Noida	15 July 2017	One Day
37.	Dr. Vijay Bhuria	Summer Training Programme on Active Learning for Senior Faculty	IIT Indore	18-22 June 2018	One week
38.	Prof. Kuldeep Swarnkar	Summer Training Programme on Active Learning for Senior Faculty	IIT Indore	18-22 June 2018	One week
39.	Prof. Praveen Bansal	Summer Training Programme on Active Learning for Senior Faculty	IIT Indore	18-22 June 2018	One week
40.	Prof. Vishal Chaudhary	Summer Training Programme on Active Learning for Senior Faculty	IIT Indore	18-22 June 2018	One week

41.	Prof. Punjan Dohre	Faculty Induction Program	IIT Kanpur	09 – 13 February 2018	One week
42.	Prof. Punjan Dohre	TEQIP Workshop on Biomimetics and Biological Soft Materials	IIT Hyderabad	27 -30 June, 2018	One week
Electronics Engineering					
1.	Dr. Laxmi Shrivastava	Workshop on wireless sensor network.	IIT (ISM) Dhanbad	18-22nd December 2017.	One week
2.	Prof. Deep Kishore Parsediya	Foundation course on Human values and professional ethics.	KDK College of Engineering, Nagpur	18th to 22nd Dec. 2017.	One week
3.	Dr. Karuna Markam	Training programme on Gender Responsive Planning and Budgeting and Safe City Programme	Sanchaalnaalay Mahila Sshaktikaran, Madhya Pradesh Shaasan, Bhopal	26/03/2018 and 27/03/2018	Two days
4.	Dr. Vandana Vikas Thakare	Training programme on Gender Responsive Planning and Budgeting and Safe City Programme .	Sanchaalnaalay Mahila Sshaktikaran, Madhya Pradesh Shaasan, Bhopal (Directorate Women Empowerment, M.P. Governance, and Bhopal).	26/03/2018 and 27/03/2018	Two days
5.	Dr. P. K. Singhal	Active Learning for Senior Faculty	IIT Indore	18/06/2018 to 22/06/2018	
6.	Dr. Vandana Vikas Thakare	Mathematical Modeling & Simulations For Wireless Digital Communication	VNIT Nagpur	04/06/2018 to 08/06/2018	
7.	Dr. Vandana Vikas Thakare	Active Learning for Senior Faculty	IIT Indore	18/06/2018 to 22/06/2018	
8	Dr. Vandana Vikas Thakare	AICTE sponsored Short Term Course on “Assuring Global in Technical Education Through Outcome Based Education”	MITS Gwalior	15/03/2018 to 19/03/2018	
9.	Dr. Vandana Vikas Thakare	Effective Techniques of Question	MITS Gwalior	7th to 8th	

		Paper Setting: An Outcome Based Education Approach under TEQIP Phase-III		February 2018	
10.	Dr. Vandana Vikas Thakare	National Summit/Seminar on Digital Judiciary on 15th April 2018 at MITS Gwalior.	MITS Gwalior	15th April 2018	
11.	Dr. Bimal Garg	Active Learning for Senior Faculty	IIT Indore	18/06/2018 to 22/06/2018	
12.	Dr. Bimal Garg	National Summit/Seminar on Digital Judiciary on 15th April 2018 at MITS Gwalior.	MITS Gwalior	15th April 2018	
13.	Dr. Bimal Garg	AICTE sponsored Short Term Course on "Assuring Global in Technical Education Through Outcome Based Education"	MITS Gwalior	10/03/2018 to 13/03/2018	
14.	Dr. Rekha Gupta	Active Learning for Senior Faculty	IIT Indore	18/06/2018 to 22/06/2018	
15.	Dr. Laxmi Shrivastava	Active Learning for Senior Faculty	IIT Indore	18/06/2018 to 22/06/2018	
16.	Dr. Ravindra Pratap Narwaria	AICTE sponsored (QIP grant) STC on Numerical Methods in Electromagnetics	MITS Gwalior	27/01/2018 to 31/01/2018	
17.	Dr. Ravindra Pratap Narwaria	Active Learning for Senior Faculty	IIT Indore	18/06/2018 to 22/06/2018	
18.	Dr. Karuna Markam	AICTE sponsored (QIP grant) STC on Numerical Methods in Electromagnetics	MITS Gwalior	27/01/2018 to 31/01/2018	
19.	Dr. Karuna Markam	Effective Techniques of Question Paper Setting: An Outcome Based Education Approach under TEQIP Phase-III	MITS Gwalior	7th to 8th February 2018	

20.	Dr. Karuna Markam	Assuring Global Quality in Technical Education Through Outcome Based Education during 10/03/2018 to 11/03/2018 at MITS Gwalior.	MITS Gwalior	10/03/2018 to 11/03/2018	
21.	Dr. Karuna Markam	AICTE-QIP sponsored FDP on Optimization Techniques and its Engineering Applications	MITS Gwalior	15/03/2018 to 19/03/2018	
22.	Dr. Karuna Markam	Mathematical Modeling & Simulations For Wireless Digital Communication	VNIT Nagpur	04/06/2018 to 08/06/2018	
23.	Dr. Karuna Markam	Active Learning for Senior Faculty	IIT Indore	18/06/2018 to 22/06/2018	
24.	Dr. Vikas Mahor	Faculty Induction Program	IIT Hyderabad	25-29 January 2018	
25.	Dr. Sarthak Singhal	Faculty Induction Program	IIT Hyderabad	25-29 January 2018	
26.	Dr. Sudhakar Modem	TEQIP-III Faculty induction program	IIT Hyderabad	25-29 January 2018	
27.	Dr. Sudhakar Modem	TEQIP-III faculty development program	MITS Gwalior		
28.	Prof. Rishabh Shukla	“Faculty Induction Program”, under TEQIP	IIT Hyderabad	25-29 July 2018	
29.	Prof. Rishabh Shukla	CMOS, Mixed Signal and RadioFrequency VLSI Design	IIT Kharagpur	26th Dec-4th Feb 2017	
30.	Prof. Rishabh Shukla	Assuring Global Quality in Technical Education through Outcome based Education, MITS Gwalior, 10-11 March 2013	MITS Gwalior	10-11 March 2013	
31.	Prof. Rishabh Shukla	Holistic approach for Technical Education: Role of Teachers	SNIT, Surat	12-16 September 2016	

32.	Prof. Rishabh Shukla	Nano Scale Integration, Fabrication and Characterization	SNIT, Surat	21-25 October 2013	
CSE/IT					
1	Dheeraj Gurjar	Second International Conference On Smart Innovations In Communications And Computational Sciences (ICSICCS-2018)	DAVV, Inodre	29 May 2018	1 Days
2	Dheeraj Gurjar	Faculty Induction Workshop	IIT Hydrabad	25-29 January 2018	5 Days
3	Dheeraj Gurjar	STC(Assuring Global Quality In Technical Education Through Outcome Based Education	MITS, Gwalior	10-11 March 2018	2 Days
4	Khushboo Agarwal	One Week AICTE QIP sponsored FDP on Optimization Techniques and its Engineering Application	MITS, Gwalior	15-19 March 2018	5 Days
5	Namrata Agrawal	Faculty Induction Workshop	IIT Hydrabad	25-29 January 2018	5 Days
6	Khushboo Agarwal	One Day Seminar on Digital Judiciary building smart course	MITS, Gwalior	15 April 2018	1 Day
7	Jaimala Jha	One Week AICTE QIP sponsored FDP on Optimization Techniques and its Engineering Application	MITS, Gwalior	15-19 March 2018	5 Days
8	Jaimala Jha	Accenture Learning Symposium Workshop On “Deep Learning” And “Devops	Amity Noida	19-20 Feb 2018	2 Days
9	Manish Dixit	FDP(Modelling Simulation And Implementation Using MATLAB)	Tehri, Uttarakhand	31 Jan-4 Feb2018	One Week
10	Rajeev Kumar Singh	Deep Learning And Devops	Amity University Noida	19-20 Feb 2018	2 Days
11	Rajeev Kumar Singh	User Interface Technologies	Acharya Institute Of	29- 3 Feb 2018	One

			Technology Bangalore		Week
12	Manish Dixit	FEP(Foundation Program 4.1)	Jaipur,Rajasthan	18-22 Sep2017	5 Days
13	Manish Dixit	National Seminar(DIGItal Judiciary- Building Smart Courts)	MITS, Gwalior	15 April2018	One Day
14	Manish Dixit	International Conference(Communication Systems And Network Technologies)	IIIT Nagpur	11-13 Nov 2017	03 Days
15	Manish Dixit	Workshop(Effective Technique Of Question Paper Setting:An Outcome Based Education Approach)	MITS, Gwalior	7-8 Feb2018	02 Days
16	Manish Dixit	STC(Assuring Global Quality In Technical Education Through Outcome Based Education	MITS, Gwalior	10-14 March 2018	One Week
17	Amit Kumar Manjhvar	User Interface Technologies	Acharya Institute Of Technology Bangalore	29- 3 Feb 2018	One Week
18	Amit Kumar Manjhvar	STC(Assuring Global Quality In Technical Education Through Outcome Based Education	MITS, Gwalior	7-8 Feb2018	2 Days
19	Abhilash Sonker	Accenture Learning Symposium Workshop On “Deep Learning” And “Devops	Amity Noida	19-20 Feb 2018	2 Days
20	Vishakha Agarwal	STC(Assuring Global Quality In Technical Education Through Outcome Based Education	MITS, Gwalior	10-11 March 2018	2 Days
21	Nishtha Parashar	STC(Assuring Global Quality In Technical Education Through Outcome Based Education	MITS, Gwalior	10-11 March 2018	2 Days
22	Kirti Gaur	STC(Assuring Global Quality In Technical Education Through Outcome Based Education	MITS, Gwalior	10-11 March 2018	2 Days

23	Pallavi Gupta	STC(Assuring Global Quality In Technical Education Through Outcome Based Education	MITS, Gwalior	10-11 March 2018	2 Days
24	Abhishek Dixit	STC(Assuring Global Quality In Technical Education Through Outcome Based Education	MITS, Gwalior	10-11 March 2018	2 Days
25	Sanjiv Sharma	Workshop(Effective Technique Of Question Paper Setting:An Outcome Based Education Approach)	MITS, Gwalior	7-8 Feb2018	02 Days
26	Sanjiv Sharma	STC(Assuring Global Quality In Technical Education Through Outcome Based Education	MITS, Gwalior	10-14 March 2018	One Week
27	Sanjiv Sharma	Industry Conclave	MITS, Gwalior	12-13 Nov 2017	2 Days
28	Mahesh Parmar	STC(Assuring Global Quality In Technical Education Through Outcome Based Education	MITS, Gwalior	10-11 March 2018	02 Days
29	Sanjiv Sharma	Workshop(Effective Technique Of Question Paper Setting:An Outcome Based Education Approach)	MITS, Gwalior	7-8 Feb 2018	02 Days
30	Sanjiv Sharma	STC(Assuring Global Quality In Technical Education Through Outcome Based Education	MITS, Gwalior	10-14 March 2018	One Week
31	R.R.Singh Makwana	STC(Assuring Global Quality In Technical Education Through Outcome Based Education	MITS, Gwalior	10-14 March 2018	One Week
32	Jaimal Jha	One Day Seminar on Digital Judiciary building smart course	MITS, Gwalior	15 April 2018	1 Day

33	R.R. Singh Makwana	One Day Seminar on Digital Judiciary building smart course	MITS, Gwalior	15 April 2018	1 Day
34	Dr. R. K. Gupta Dr. Akhilesh Tiwari Dr. Manish Dixit Prof. Punit Kumar Johari Dr. Sanjiv Sharma Prof. Vikas Sejwar Prof. Jaimala Jha Prof. Abhilash sonker	Summer Training Program on Active Learning for Senior Faculty unde TEQIP-III	IIT Indore	I Phase- 18-22 June 2018 II Phase- 25-29 June 2018	5 Days
Chemical Engineering					
1	Sumint Singh Trivedia	Writing Academic Paper	IIT Gandhinagar	16-18 March,2017	03 Days
2.	Swati Gupta	Writing Academic Paper	IIT Gandhinagar	16-18 March,2017	03 Days
3.	Anish Jacob	Impact Of Assessment On Higher Professional Institute	KIT Kohlapur	13-14 Jan,2017	02 Days
Biotechnology					
1	Dr. P. R. Rout	Hands On Training On Microbial Biodiversity	IIT, DelhI	9-11th April, 2018	3 Days
2	Dr. P. R. Rout	Faculty Induction Workshop	IIT Hyderabad	25th Jan-29th Jan, 2018	5 Days
3	Dr. Sharad Verma	Faculty Induction Workshop	IIT Hyderabad	25th Jan-29th Jan, 2018	5 Days
4	Ms. Shikha Jha	Faculty Induction Workshop	IIT Hyderabad	25th Jan-29th Jan, 2018	5 Days
5.	Dr. Sunita Sharma	Summer Training on Active Learning	Iit Indore	25-29 June 2018	05 Days
6.	Ms. Shikha Jha	Gyan Course on Molecular Beneficial Plant Microbe Interactions And Functional	Harisingh Gaur Univ. Sagar	25-30 June2018	06 Days

		Microbiome			
Humanities					
1	Sufia Azim	Teqip Induction Program	IIT Hyderabad	25-29 Jan 2018	5days
2	Sufia Azim	Workshop On Ëffective Techniques Of Question Paper Setting	MITS,Gwalior	7-8 Feb	2 Days
3	Sufia Azim	Paper Presented In International Conferenceon Religion,Literature Andculture Organizedby Higher Education And Research	Pune	15 -16 Sep 2017	2 Days
4	Sufia Azim	Attended Seven Days Short Term Course On "Language Literature And Culture	UGC Human Resource Development Centre(Amu)	10-16 Feb	7days
1	Qazi Hasan Yasir	Teqip Induction Program	IIT Hyderabad	25-29 Jan 2018	Five Days
2	Qazi Hasan Yasir	Paper Presented In International Conference Organized By Krishi Sanskriti	JNU Delhi	10 June 2017	Two Days
3.	Qazi Hasan Yasir	Aicte Sponsored Short Term Course On "Assuring Global Quality In Technical Education Thorugh Outcome Based Education"	MITS, Gwalior	10-11 March 2018	Two Days
1	Urvashi Garud	Paper Presented In International Confrence Organised By Iim Kashipur	IIM Kashipur	25 -27 May 2018	Three Days
2.	Urvashi Garud	Paper Presented In National Seminar Organised By Indra Gandhi Tribal University , Amarkanthak	Indra Gandhi Tribal University , Amarkanthak	26 – 27 Feb 2018	Two Days

3	Urvashi Garud	Presented Paper In National Seminar Organised By Dream Valley College	Gwalior	6 May	One Day
4	Urvashi Garud	Presented Paper In National Seminar Organised By All India Accounting Association	All India Accounting Association, Gwalior	1 – 2 October 2017	Two Days
5	Sanjeev Khanna	Presented Paper International Seminar On *The Cultures Of New India.*	Shri Ramswaroop Memorial University, Lucknow, In Association With The University Of Rome Tor Vergata, Italy And Monash University, Australia.	17th And 18th February 2017	02 Days
Applied Science					
1	Dr. Anjula Gaur Prof. J K Muthele Dr Shourabh Bhattacharya Dr. Uday Pratap Singh	Effective Techniques of Question Paper Setting: An Outcome Based Education, under TEQIP- III	Internal Quality Cell of Madhav Institute of Technology & Science, Gwalior (M.P.)	7-8th Feb., 2018.	Two Days
2	Dr Abhay Mishra Dr. V P Shinde Dr. D K Jain Dr. Anjula Gaur Prof. J K Muthele	AICTE-QIP Sponsored One week STC under Quality Improvement Programme on "Assuring Global Quality in Technical Education Through Outcome Based Education"	Internal Quality Cell of Madhav Institute of Technology & Science, Gwalior (M.P.)	10th–14th March 2018.	One Week
3	Prof. Kumar Jitendra Dr. Shinde Vikas	Presented a paper 'OPTIMAL PATH FOR DISTRIBUTION CHAIN SYSTEM USING QEUEING MODELS, '	International Conference on Recent Advances & Applications in Computer Engineering (RAACE- 2017)	Nov. 23- 25, 2017	Three Days

			organized by St. Xavier's College, Jaipur.		
4	Kumar Jitendra Shinde Vikas	Presented a paper 'Call Admission Control Scheme for Cellular Wireless Network using Queueing Model,'	International Conference on Applications of Computing and Communication Technologies (ICACCT – 2018), organized by Department of Computer Science, Shyama Prasad Mukherji College, New Delhi.	March 9, 2018,	One Day
5	Prof Jitendra Kumar	Workshop on Scientific and Technical Terminology in Science and Technology	Under CSTT held on by Amity University, Madhya Pradesh, and Gwalior.	29 -30 Nov. 2017	Two Days
6	Dr. Anjula Gaur	International conference on nanomaterials: initiatives & applications	School of Studies in environmental & Institute of Engineering	March 9-11, 2018,	Three Days
7	Dr. Anjula Gaur	International conference on Electrochemical Science and Technology	Department of Inorganic chemistry, Indian Institute of Banglore, Banglore	August 10-12, 2017,	Three Days
8	Dr. Prachi Sharma Dr. Ashish Verma Dr. Gargi Mukherjee	Faculty Induction Program by NPIU	IIT Hyderabad	25 Jan. To 29 Jan. 2018	One Week
9	Dr. Sonal Jain Prof. Deobrat Singh	Faculty Induction Program by NPIU	IIT Kanpur	9 Feb. To 13 Feb. 2018	One Week

10	Dr. Sonal Jain	Conference of International Academy of Physical Sciences (CONIPS XXII) on Emerging Trends in Physical Sciences, Organized by Faculty of Sciences, Dr. Ram Manohar	Lohia Avadh University, Faizabad U.P., India.,	April 13-15, 2018.	Three Days
11	Dr Abhay Mishra, Dr. S. Bhattacharya, Prof. J K Muthele, Dr Uday Pratap Singh, Prof Angad S Ojha	Active Learning for Senior Faculty" under TEQIP-III	IIT Indore, Indore.	18 June to 22 June 2018	One Week
12	Dr Anjula Gaur	Active Learning for Senior Faculty" under TEQIP-III	IIT Indore, Indore.	25 June to 29 June 2018	One Week
13	Dr Vikas Shinde	Instruction Resources Development for MOOC	NITTTR, BHOPAL	25 June to 29 June 2018	One Week

TECHNICAL & ADMINISTRATIVE STAFF SENT FOR TRAINING

S. No.	Name of staff	Activity	Event venue	Date	Duration
Technical Staff					
Electrical Engineering					
1	R.S. Yadav	Short term course on Introduction of Transducers/ Sensors for Industrial Automation	ATI EPI Dehradun	11-15 June 2018	One Week
2	Rajesh Sharma	Short term course on Introduction of Transducers/ Sensors for Industrial Automation	ATI EPI Dehradun	11-15 June 2018	One Week

Electronics Engineering					
1	Mr. Sujan Jadaun	Short term course on Introduction of Transducers/ Sensors for Industrial Automation	ATI EPI Dehradun	11-15 June 2018	One Week
CSE/IT					
1	Santosh Sharma	STTP on Linux Administration Using Centos	NITTTR, Chandigarh	30 April -4 May 2018	5 Days
2	Sanjay Arolia	STTP on Linux Administration Using Centos	NITTTR, Chandigarh	30 April - 4 May 2018	5 Days
CCC					
1	Priyanka Bhadoriya	STTP on N/W Security and Firewall	NITTTR Chandigarh	15-19 Jan 2018	One Week

S. No.	**Name of staff**	**Activity**	**Event venue**	**Date**	**Duration**
Administrative Staff					
1	Mr. Ajay sharma	Financial management & PFMS	SGSITS Indore	19-20 June 2018	02 Days
2	Mr. Dharmendra Gorakhpuri	Financial management & PFMS	SGSITS Indore	19-20 June 2018	02 Days
3	Shri Atul Chauhan	MIS training	VJTI Mumbai	24-06-2018	01 Day

LIST OF PAPERS PUBLISHED IN JOURNALS/CONFERENCES (2017-18)

Name of author(s)	Title of paper	Name of Journal/ Conference	Volume	Pages	Place (for conferences)	Month/Year of publication
Civil Engineering						
Jitendra Singh, Prof. Sanjay Tiwari, Prof. Gautam Bhadoriya	Discrete Time Cost Trade-Off for Multi Mode Problems in CPM	Journal of Civil and Construction Engineering (MAT Journals)	Volume 2 Issue 2	1-9	--	2016
Jitendra Singh,Prof. Sanjay Tiwari, Prof. GautamBhadoriya	Time Cost Trade-Off Analysis using IP Formulations	Journal of Civil and Construction Engineering (MAT Journals)	Volume 2 Issue 2	1-8	--	2016
Vinay Tyagi, Prof. Gautam Bhadoriya	Evaluation of Strength properties of Mortar Containing Waste glass	IJRASET Journal (ISSN: 2321-9653)	Volume 4 Issue x	--	--	Oct. 2016.
Rajeev Pandey, Prof. Deepak Rastogi	Impact of Carrosion of Reinforcement in Precast Concrete Construction	International Research Journal of Engineering and Technology (IRJET)	Volume-3 issue 8	--	--	August 2016
Shyamveer singh chauhan, Prof. Deepak Rastogi	Utilization of Municipal Solid Waste of Gwalior City for Energy Generation (A Case Study)	International Research Journal of Engineering and Technology (IRJET)	Volume 3, Issue 7	--	--	July 2016
Vipul Mudgal, A. Tiwari	Experimental Investigation of Properties of Fresh and Hardened Concrete Containing Waste Plastic ”	International Journal of Science and Research (IJSR) ISSN Online : 2319-7064	Vol.5, Issue 8,	--	--	August 2016
Gaurav Shrivastava, A. Tiwari	Investigation of Properties of Fresh and Hardened Concrete Containing Waste Glass Powder as Partial Replacement of Cement	International Journal of Science and Research (IJSR)	Vol.5	--	--	7th July, *2016*
Akash Gupta, A. Tiwari	Effect on Mechanical Properties of Paver Block consist Crusher Stone Dust as Fine Aggregate with Inclusion on Steel Fibre	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Vol.4, Issue X	529-535	--	October 2016
Deepti Singh, R Kansal	Analysis of Fresh and Hardened Properties of M35 Concrete Mix Using Burned Engine Oil as an Admixture	International Journal of Science Technology & Engineering (IJSTE)	Vol.3, issue: 01	459-564	--	July 2016
Raghvendra Jadon, R Kansal	Experimental Study of Bituminous Concrete Mix by using Waste Plastic	International Journal of Science Technology & Engineering (IJSTE)	Vol.3, issue: 01	482-487	--	July 2016
Krati Gahoi, R Kansal	Effect of Waste Glass Powder on Properties on Concrete: A Literature Review	International Journal of Science and Research (IJSR) ,	Vol.5, issue: 08	1329 to 1333	--	August 2016.
Krati Gahoi, R Kansal	Waste Glass Powder As a Partial Replacement of PPC	International Journal of Advanced and innovative Research	Vol.5, issue: 08,	1414 to 1418	--	August 2016

Manish Dubey, A.K. Saxena	Assessment of Water Quality Index of Saank River, Morena, Madhya Pradesh	International Journal of Science, Engineering and Technology Research (IJSETR),	Vol.5, issue: 08.	2563-2567	--	August 2016
Manish Dubey, A.K. Saxena	Quality Characterization of Groundwater using Water Quality Index in Gwalior City, Madhya Pradesh, India	International Journal of Science, Engineering and Technology Research (IJSETR)	Vol.5, issue: 08	2578-2584	--	August 2016
Sandhya Parihar & M. K. Trivedi	A review paper on traffic signal control based on fuzzy set theory	IJSART	Vol 2, issue 11	243-250	--	2016
Gyaneshwar singh Uchariya & M. K. Trivedi	A study on wood ash, alternative martial of stabilizing clay soil	IJSRD	Vol 4 issue 5	1116-1119	--	2016
Bhanu Pratap Singh Sikarwar & M. K. Trivedi	Stabilization of Clayey Soil by Using Gypsum and Calcium Chloride	International Journal for Research in Applied Science and Engineering Technology, Impact factor- 5.969 (IJRASET) ISSN: 2321-9653	Vol. 5, issue V	477-481	--	May 2017
Neha Pundir & M. K. Trivedi	Improvement of Pavement Soil Sub grade by Using Burnt Brick Dust	Impact factor- 5.969 (IJRASET) ISSN: 2321-9653	Vol. 5, issue V	218	--	May 2017
D. Rastogi & Sourabh Pathak	Case study of Cracks in Public Buildings and their Remedies	, International Journal of Science & Research, (e- ISSN: 2319-7064)	Vol. 6, issue – 5	--	--	May 2017
Vijayendra Singh Dangi, Prof. Aditya Kumar Agarwal	Current Practices of Solid Waste Management in MITS Campus, Gwalior: A Case Study	International Journal for Research in Applied Science and Engineering Technology (IJRASET)	Volume 5, Issue V ISSN : 2321-9653	--	--	May 2017
Neha Pundir & M. K. Trivedi	Improvement of Pavement Soil Sub grade by Using Burnt Brick Dust & Scrap Tyre Rubber	International Journal for Scientific Research & Development, Impact factor- 4.396 (IJSRD), ISSN: 2321-0613	Vol. 5, issue 03,	858-860	--	2017
A. Tiwari, A.Singh	Effect of Zinc Oxide Nanoparticle on Compressive Strength and Durability of Cement Mortar	International Journal for Research in Applied Science & Engineering Technology,(e-ISSN:2321-9653),	Vol.5 Issue VII	--	--	July-2017
Tarun Jain, Prof. Archana Tiwari	Light Weight Bricks Using Waste EPS Beads	International Journal for Research in Applied Science and Engineering Technology (IJRASET)	Volume 5, Issue VI	--	--	June 2017
Abhishek Joshi, Deepak Rastogi	Traffic Noise Pollution studies of Gwalior, (M.P.)	IJRASET, ISSN: 2321-9653; IC Value:45.98; SJ Impact Factor;6.887	Volume 5 Issue VI	367	--	June 2017
Lalit Singh ,M.K. Trivedi,	Appropriate Contractor Evaluation Techniques in Construction Industry Based on Multicriteria Decisions	IJESC	Volume 7,Issue-5	11392	--	June-2017

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Sarvesh K. Jain, Sanjay Tiwari, Ayush Dixit and Chandra Kant Sharma	Estimation of Fundamental Time Periods of Elevated Reservoirs	Journal of The Institution of Engineers (India): Series A	Vol. 98 issue(3):	257–265	--	September 2017
Riya Govil, Aditya Kumar Agarwal	Performance Evaluation of Effluent Treatment Plant of Dairy Industry in Gwalior (M.P.)	International Journal for Research in Applied Science and Engineering Technology (IJRASET)	Volume 5, Issue VI	--	--	June 2017
Rajveer Singh Dhakar, Rajeev Kansal	Effect of Replacement of Natural Aggregates by Recycled Aggregates Used In Concrete	IJRASET, ISSN: 2321-9653; IC Value:45.98; SJ Impact Factor;6.887	Volume 5 Issue IX	497	--	September 2017
Deepak Kumar Diwakar, Rajeev Kansal	Techno Economical Analysis for Sand Stone Chips as a Coarse Aggregate in Concrete	IJRASET, ISSN: 2321-9653; IC Value:45.98; SJ Impact Factor;6.887	Volume 5 Issue IX,	485	--	September 2017
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Sanjay Tiwari &PradeepBhargava	Load Distribution Factors for Composite Multicell Box Girder Bridge	Journal of The Institution of Engineers (India): Series A	Volume 98, Issue 4	483–492	--	December 2017
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Sandhya Parihar & M. K. Trivedi	Determination of most favourable signal timings at Intersections using fuzzy logic methods	IJSART	Vol 3, issue 10	--	--	2017
Rahul Singh Dhakad & dr. M. K. Trivedi	Study of enhancement of strength of clayey soil stabilized with Acrylic polymer	IJSRD	Vol 6, issue 02	3272-3276	--	2018
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Dr. Pratesh Jayaswal	Fault analysis in self-aligning ball bearing by wavelet transform based feature extraction using neural networks	International journal of engineering sciences & research technology	7	11-17	--	2017
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Dr. M.K. Gaur	Optimization of machining parameters of hard porcelain on a	International Journal of Engineering, Science and	10(1)	13-22	--	2018

	CNC machine by Taguchi and RSM method	Technology				
Dr. M.K. Gaur	Recent Advancement , Applications and Performance Study of Various Types of Solar Dryers	Conference: Smart Technologies for Green and Sustainable Future (STGSF-2017) At: MANIT Bhopal	--	--	--	2018
Dr. M.K. Gaur	Exergy analysis of evacuated tube solar collectors: a review	International Journal of Exergy	25(1)	54-74	--	2018
Dr. M.K. Gaur	Experimental investigation of heat removal factor in solar flat plate collector for various flow configurations	International journal of green energy	14	442-448	--	2017
Dr. C S Malvi	Experimental investigation of heat removal factor in solar flat plate collector for various flow configurations	International journal of green energy	14	442-448	--	2017
Dr. C S Malvi	Design, Simulation and Economic Analysis of on Grid Solar PV System for Educational Institute in North India	Journal of Alternate Energy Sources and Technologies	8	64-74	--	2018
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Sharad Agrawal	Optimization of machining parameters of hard porcelain on a CNC machine by Taguchi and RSM method	International Journal of Engineering, Science and Technology	10(1)	13-22	--	2018
Vaibhav Shivhare	Selection of the Best Belt Conveyor using AHP	European Journal of Advances in Engineering and Technology	4(2)	129-134	--	2017
Dr. M. K. Sagar	Modeling the wire-EDM process parameters for EN-8 carbon steel using artificial neural networks	International Journal of Engineering, Science and Technology	9(2)	26-38	--	2017
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Dr. Amit Aherwar	Preliminary evaluations on development of new materials for hip joint femoral head	Proc IMechE Part L: J Materials: Design and Applications		1-15	--	2017
Dr. Amit Aherwar	Prediction of effect of tungsten filled Co-30Cr-4Mo-1Ni metal matrix biomedical composite alloy on sliding wear peculiarity using Taguchi methodology and ANN	Advances in Materials and Processing Technologies.	3(4)	665-688	--	2017
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Dr. Amit Aherwar	A study on mechanical behavior and wear performance of a metal–metal Co–30Cr biomedical alloy with different molybdenum addition and optimized using Taguchi experimental design	Journal of the Brazilian Society of Mechanical Sciences and Engineering	40 (5)	213-232	--	2018
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Ashis Patra	Artificial neural network based PID controller for control of Dynamical Systems	International journal of advanced and innovative research,	Vol. 06, issue 07	43-47	--	
Anoop Singh Yadav, Shishir Dixit	Placement of TCSC for Improvement of Power Flow	Int. Journal of Adv. Res. in Computer Engg & Technology (IJARCET)	Volume 6, Issue 7, July 2017	1105-1108	--	
Himmat Singh, Laxmi Srivastava	Multi objective optimal reactive power dispatch for distribution system	IEEE Int. Conf. on Power, Control, Signals and Instrumentation Engineering (ICPCSI-2017)	--	--	Saveetha Engg. College, Chennai, Tamil Nadu	21st -22nd September, 2017
Anurag Das, Laxmi Srivastava	Optimal Placement and Sizing of Distributed Generation Units for Power Loss Reduction Using Moth Flame Optimization Algorithm	IEEE Int. Conf. on Intelli. Computing, Instru. and Control Technologies (ICICICT-2017)	--	--	Vimal Jyothi Engineering College, Kannur, Kerala	6-7 July 2017
Vijay Bhuria	Interfacing of Renewable Energy Source To Grid With Power Quality Improvement	Int. Journal of Innovative Res. in Electrical Electronics Instrumentation and Control Engg	Vol 5, Issue 8			August 2017
Vishal Chaudhary	Optimal Generation Scheduling Of Thermal System Using Biologically Inspired Grasshopper Algorithm	IEEE Int. Conf. on Telecommunication and Networks (TELNET 2017)	--	--	Amity Institute of Telecom Engg and Management, Amity University, Noida, UP, India	10th – 11th August, 2017
Sandeep Singh Tomar, Nikhil Agrawal and Praveen Bansal	Various Modulation Techniques in Symmetrical Multilevel Inverters	International **IEEE Conference on International Conference** on Energy, Communication, Data Analytics and Soft Computing (ICECDS) -2017	--	--	SKR Engineering College, Poonamallee, Chennai Tamil Nadu, India	1st - 2nd August 2017
Nikhil Agrawal and Praveen Bansal	A New 21- Level Asymmetrical Multilevel Inverter Topology with Different PWM Techniques	International **IEEE Conference** on Recent Developments in Control, Automation & Power Engineering (RDCAPE)- **26-27th October 2017**	--	--	Amity University Noida Uttar Pradesh , India	
Nikhil Agrawal & **Praveen**	A Multilevel Inverter Topology	International **IEEE**	--	--	SKR	1st - 2nd

Bansal	Using Reverse- Connected Voltage Sources	**Conference** on International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS) - 2017			Engineering College, Poonamallee, Chennai Tamil Nadu, India	August 2017
Electronics Engineering						
Dr. P.K. Singhal	Modern Fisher–Yates Shuffling Based Random Interleaver Design for SCFDMA-IDMA Systems	Wireless Personal Communications	Vol. 97, Issue 1	pp. 63–73	--	November 2017
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Dr. P.K. Singhal	Flip left-right approach based novel inverse tree interleavers for IDMA scheme	AEU - International Journal of Electronics and Communications	Vol. 81,	pp. 182-191	--	November 2017,
Dr. P.K. Singhal	A stacked Sierpinski's gasket fractal antenna for satellite uplink/downlink application	2017 2nd International Conference for Convergence in Technology (I2CT)	--	pp. 1133-1135	--	2017
Dr. Vandana Vikas Thakare	Simulation of Few Mode Fiber Communication System Using Adaptive Recursive least Square Algorithm.	International Journal on Recent and Innovation Trends in Computing and Communication	Vol. 5, Issue7	pp. 311-314	--	July-2017
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Dr. Bimal Garg	Parameter enhanced of microstrip patch antenna using split hexagonal rings of left handed material	International Journal of Radio Frequency Design,	Vol. 3	pp. 1-7	--	2017
Dr. Bimal Garg	Miniaturization Of Microstrip Patch Antenna Using Interconnected Hexagonal Rings Of Double Negative Material Structure	International Journal Of Engineering Sciences & Research Technology,	Vol. 6, Issue 9	pp. 389-396	--	September 2017
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Dr. Laxmi Shrivastava	Estimation Techniques: Adaptive and Kalman Filter for Speech Processing.	International Journal of Neural System Engineering,	Vol. 1	pp. 99-104	--	2017
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Dr. Laxmi Shrivastava	Compact Dual Band Microstrip Patch Antenna with Defected Ground Structure for GSM and ISM Band Application.	International Journal of Advance Research in Science and Engineering (IJARSE)	Vol. 6, Issue 8	pp. 1305-1309	--	August 2017
Dr. Laxmi Shrivastava	Efficient Energy consumption of Cluster Head in Wireless Sensor Network	International Journal of Advance Research in Science and Engineering (IJARSE)	Vol. 6, Issue 8	pp. 1105-1113	--	August 2017
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Dr. Laxmi Shrivastava	Effect of Rician Fading Channel on Performance of MANET.	International Journal of Advance Research in Science and Engineering (IJARSE)	Vol. 6	pp. 1194-1199	--	August 2017
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Dr. Laxmi Shrivastava	Compact Dual Band Microstrip Patch Antenna With Defected Ground Structure for GSM and ISM Band Application.	5th International Conference on Emerging Trends in Engineering, Technology, Science and Management (ICETETSM-2017)	Conference paper	--	Bangalore (Karnataka)	August, 2017
Dr. Laxmi Shrivastava	Efficient Energy Consumption of Cluster Head in Wireless Sensor Network.	5th International Conference on Emerging Trends in Engineering, Technology, Science And Management (ICETETSM 2017),	Conference paper	--	Bangalore (Karnataka)	August, 2017
Dr. Laxmi Shrivastava	Performance Evaluation of Multiple Rate Mobile Ad hoc Networks Using Rayleigh Fading	5th International Conference on Emerging Trends in Engineering, Technology, Science And Management (ICETETSM 2017),	Conference paper	--	Bangalore (Karnataka)	August, 2017
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Dr. Ravindra Pratap Narwaria	Designing of rectangular window based Fir filter for cutoff frequency calculation in Artificial Neural Network	International Journal of engineering sciences & research technology	Vol. 6	pp. 395-398	--	2017
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Dr. Karuna Markam	Digital Image Watermarking in Tampering using Different	International Journal for Scientific Research &	Vol. 5	pp. 1345-	--	2017

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Dr. Karuna Markam	Study and Analysis of Robust DCT-2L-DWT-SVD Domain based Digital Image Watermarking Techniques with Different Attacks using MATLAB.	International Journal of Image Processing and Pattren Recoginition (IJIPPR)	Vol. 3	pp. 1-11	--	2017
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Prof. Madhav Singh	Analysis of AODV, ZRP RIP routing protocol based on different Parameters in mobile Ad-Hoc Network	International Journal Of Broadband Cellular Communication	Vol. 2	PP. 10-18	--	--
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Saurabh Singh, Shashikant Verma, Akhilesh Tiwari, Divyani Indurkhya, Aditya Tiwari	An Innovative Investigation on The Importance of Link in Terrorist Network Using Prim's Algorithm (Anti - Terrorism Approach)	Journal Of Advanced Research in Dynamical and Control Systems **(SCOPUS)**	Volume 9	316-331	--	2017
Kunal Gupta, Rajni Ranjan Singh	A Survey On Web Application Attack Detection Methods	International Journal Of Advanced Research In Computer Science	8	565-569	--	July 2017
Ekta Parihar, Khushboo Agarwal	An Efficient Approach For Eliminating The Sybil, Sinkhole And Wormhole Attack In WSN	International Journal of Advanced Research in Computer Science	8	1212-1216	--	Aug. 2017
Krishna Kumar Sharma, Dheeraj Gurjar, Monika Jyotyana, Vinod Kumari	Denoising Of Brain MRI Images Using A Hybrid Filter Method Of Sylvester-Lyapunov Equation And Non Local Means	International Conference on Smart Innovations in Communications and Computational Sciences (**ICSICCS-2018**)	--	--	DAVV, Indore	April 2018
Manish Dixit	Survey Paper On Image Encryption Steganography With Its Techniques	International Journal For Science And Advance Research In Technology	3	--	--	July 2017
Manish Dixit	An Exposure Based Technique With Dwt To Enhance The Image	International journal Of Engineering Research In Computer Science And Engineering	4	--	--	August 2017
Manish Dixit	Analysis On Applicability And Feasebility Of Dynamic Programming On The Basis Of Time Complexity And Space Through Case Studies	International Conference On Data Engineering And Application 2017	--	--	Bhopal	28-29 October 2017
Manish Dixit	All Time Tracking System For Recovering Stolen Devices Even In Power Off State	International conference On Communication Systems And Network Technologies	--	--	IIIT Nagpur	11-13 Nov. 2017
Amit Kumar Manjhvar	Relation Classification From Unstructured Medical Text Using Feature Based Machine Learning Approach	International Conference On Trends In Electronics And Informatics	--	--	--	11-12 May 2017
Manish Dixit	A Refined Approach Of Image Retrieval Using Rbf-Svm Classifier	International Journal of Signal Processing, Image Processing	10	2005-4254	SERSC Australia	16 Oct. 2017

		And Pattern Recognition				
Amit Kumar Manjhvar	A Model For Forecasting Dengue Disease Using Genetic Based Weighted FP- Growth	International Conference On Trends In Electronics And Informatics	--	944-948	--	--
Amit Kumar Manjhvar	Role Of Clustering In Crime Detection: Application Of Fuzzy K-Means	Advances in Computer and Computational Sciences (Springer Nature Singapore	--	591-599	--	2018
Garima Agrawal, Abhilash Sonker	Improving Confidentiality,Integrity, Authenticity In Mobile Wallet	International Journal of Computer Sciences And Engineering	--	181-184	--	2017
Garima Agrawal, Abhilash Sonker	Enhancing Confidentiality,Integrity,Authenticity&Non-Repudiation Using Aes & Ecc In Mobilewallet	International Journal of Creative Research Thoughts	Vol.5	--	--	2017
Abhishek Agrawal, Abhilash Sonker	A Secure Routing Using DIGItal Envelope In Mobile Ad Hoc Network	International Journal of Creative Research Thoughts	--	--	--	2017
Abhishek Agrawal, Abhilash Sonker	A Review Of Different Routing Protocols In Mobile Ad Hoc Network	International Journal of Advance Engineering And Research Development	--	--	--	2017
Manish Dixit, RR Singh, Shivangi Seth	Hybridized Combinational Feature Selection Framework For Network Intrusion Detection System (HCFSF)	Indian Journal of Computer Science And Engineering (IJCSE)	8	260-267	--	July 2017
Jaimala Jha, Ravi Devesh	Retrieval Of Monuments Images Through ACO Optimization Approach	International Research Journal of Engineering and Technology	4	279-285	--	July 2017
Kritika Yadav, Mahesh Parmar	Analysis Of Mahatma Gandhi National Rural Employment Guarantee Act Using Data Mining Technique	International Journal of Computational Intelligence Research (IJCIR)	Volume 13, Number 9	2221-2235	--	November 2017
Biotechnology						
Sharad Verma, Sukriti Goyal, Anchala Kumari, Aditi Singh, Salma Jamal, Abhinav Grover	Structural investigations on mechanism of lapatinib resistance caused by HER-2 mutants	PLOS ONE	--	--	NA	2018
Sharad Verma, Sukriti Goyal, AnchalaKumari, Aditi Singh, Salma Jamal, Bharti Pandey, Siddharth Sinha, Abhinav Grover	Insight into the inhibitor discrimination by FLT3 F691L	Chemical Biology and Drug Design	--	--	NA	2018
PrangyaRanjanRout, Rajesh Roshan Dash, Puspendu	Role of Bacillus cereus GS-5 strain on simultaneous nitrogen and	Bioresource Technology	--	--	NA	2018

Bhunia, Surampalli Rao	phosphorous removal from domestic wastewater in an inventive single unit multi-layer packed bed bioreactor					
Humanities						
Sufia Azim	Paper Published On Ïnterpersonal Strategies Used In Business Communication In The Journal Of National Development	Journal of National Development	VOL 26	--	Meerut	2017
Mohd Jamshed & Qazi Hasan Yasir	"Dismantling the Patriarchal Structures and Empowering the Oppressed Women"	Ugc Approved Peer Reviewed Journal, Langlit (Issn: 2349-5189)	VOL 4, ISSUE 1	Sr No 49124	--	August 2017
Sanjeev Khanna	**Socio-Cultural Convergence: A Critique of R. K. Narayan's Select Novels. (A study of *The Guide, The Man-* *Eater of Malgudi, The Vendor of Sweets, and The Painter of Signs*).**	ISBN 9789352071470. New Delhi: B.R. Publishing Corporation, 2017.	--	--	Jabalpur, Mp	2017
Applied Science						
Anjula Gaur et. al.	Performance Evaluation of Effluent Treatment plant of soap industry	International Journal of modern Trends in Engineering and Science	Vol-4, Issue 4	--	--	2017 ISSN: 2348-3121
Kumar Jitendra, Shinde Vikas and Santosh Baradwaj	Sale Checkout Operation In Big Bazaar Using Queuing Model**,**	International Journal of Mathematical Archive	Vol. 8, Issue 7	281 – 287	--	2017 ISSN :2229 – 5046
Kumar Jitendra, Shinde Vikas and Mukta Karla	Availability And Reliability Analysis Of Computer Systems	International Journal of Control Theory and Applications	Vol. 10(18),	266-275	--	2017 ISSN 0974-5572
Altaf Ahmad, D. K. Jain& Farooq Ahmad	Dirichlet Averages of Wright-Type Hypergeometric Functionand and Their q-Extension	International Journal of Computer & Mathematical Sciences IJCMS.	Vol. 6, Issue 6	110-114	--	2017 ISSN 2347 – 8527
Altaf Ahmad, Renu Jain, &D.K. Jain	q- Analouge of Aleph Function and Its Transformation Formulae with q-derivative,	International Journal of Statistics Applications & Probability Sciences.	Vol. 6, Issue 3	567-575	--	2017

Uday Pratap Singh et al.	Approximation of Nonlinear Discrete Time System Using FA Based Neural Network	Granular Computing (**Springer**)	--	--	--	2017
Uday Pratap Singh et al.	Optimization of Neural Network for Nonlinear Discrete Time System Using Modified Quaternion Firefly Algorithm: Case Study of Indian Currency Exchange Rate Prediction	Soft Computing (Springer), SCI Index IF: 2.47, DOI: 10.1007/s00500-017-2522-x,	--	--	--	2017, ISSN: 1433-7479.
Altaf Ahmad, Renu Jain, D.K.Jain& Farooq Ahmad	Images of Wright-Type Hypergeometric Function Mittag-Leffler functions under a Generalized W-E-K Fractional Operator	Jnanabha.	Vol. 47, No.2	235-240	--	2017 ISSN:0304-9892
Altaf Ahmad, D. K. Jain&Farooq Ahmad	Dirichlet Averages of Generalized Fox-Wight Function	MAYFEB Journal of Mathematics.	Vol.4	28-32	--	2017 ISSN:2371-6193
Altaf Ahmad, Renu Jain, &D. K. Jain	Certain Expansion Formulae Involving a Basic Analouge ofMittag-Leffler Function	MAYFEB Journal of Mathematics.	Vol. 4	67-72	--	2017 ISSN 2371 – 6193
Altaf Ahmad, Renu Jain, D. K. Jain& Farooq Ahmad:	Images of Wright-Type Hypergeometric Function Mittag-Leffler functions under a Generalized W-E-K Fractional Operator,	Jnanabha.	Vol. 47, No.2	235-240	--	2017 ISSN:0304-9892
Altaf Ahmad, D. K. Jain&Renu Jain	Generating Functions Of q-Analogue Of I-Function Satisfying Truesdell's Descending Fq-Equation	Journal of New Theory.	No. 19	48-55	--	2017 ISSN: 2149-1402
Farooq Ahmad, D. K. Jain& Alok Jain:,	Certain expansion formulae involving a basic analogue of I-function	JK Research Journal in Mathematics and Computer Sciences.	Vol. 1, No.1	68-73,	--	2018
Uday Pratap Singh et al.	Soft Computing approaches for Image Segmentation: A Survey	Multimedia Tools and Applications (Springer), SCI Index, IF: 1.53.	--	--	--	2018, ISSN: 1573-7721.
Uday Pratap Singh et al.	Image Segmentation using Computational Intelligence Techniques: Review	Archives of Computational Methods in Engineering (Springer), SCI Index, IF: 5.061, DOI: 10.1007/s11831-018-9257-4.	--	--	--	2018, ISSN: 1886-1784.
Uday Pratap Singh et al.	Bacterial Foraging Optimization Based Radial Basis Function Neural	IEEE Access (IEEE), SCI Index, IF: 3.244, DOI:	--	--	Accepted,	2018, ISSN: 2169-

	Network (BRBFNN) for Identification and Classification of Plant Leaf Diseases: An Automatic Approach Towards Plant Pathology	10.1109/ACCESS.2018.2800685,				3536.
Uday Pratap Singh et al.	Gradient evolution-based counter propagation network for approximation of noncanonical system	Soft Computing (**Springer**)	--	--	--	2018
Ashish Verma et al	Generalized incomplete Pochhammer symbols and their applications to hypergeometric functions.	Kyungpook Math. J.	58, No. 1	67-79	--	2018
Ashish Verma et al	Recursion Formulas for q-hypergeometric and q-Appell Series.	Korean Math. Soc.	33 , No. 1	207-236	--	2018
Sonal Jain et al	Numerical Analysis for the Fractional Diffusion and Fractional Buckmaster's Equation by Two Step Adam-Bashforth Method	Eur. Phys. J. Plus, SCI, Impact Factor: 1.750, 33:19, https://doi.org/10.1140/epjp/i2018-11854-x.	--	--	--	2018
Sonal Jain et al	Mathematical Modelling and analysis of Dynamics of Cytosolic Calcium Ion in Astrocytes Using Fractional Calculus	Journal of Fractional Calculus and Applications,	Vol. 9 No.2	--	--	2018
Farooq Ahmad, D. K. Jain& Alok Jain	The classical Laplace transform and its q-image of the most generalized hypergeometric and Mittag-Leffer functions	Pramana Research Journal	Vol. 8, No.5	66-71	--	June 2018
Sonal Jain et al	Numerical Analysis for the Fractional Diffusion and Fractional Buckmaster's Equation by Two Step Adam-Bashforth Method	Eur. Phys. J. Plus, SCI, Impact Factor: 1.750, 33:19, https://doi.org/10.1140/epjp/i2018-11854-x.	--	--	--	2018

CITATION INDEX OF FACULTY MEMBERS AND IMPACT FACTOR OF JOURNALS

Civil Engineering :

S. No.	Name of Faculty	Citations	h-index	i10-index
1	Dr. S. K. Jain	378	8	8
2	Dr. R. Kansal	21	2	1
3	Dr. S. Tiwari	6	2	0
4	Prof. Gautam Bhadoria	02	1	0
5	Prof. A. K. Agrawal	03	1	0

Mechanical Engineering :

S. No	Name of Faculty	Citation	h-index	i10-index
1.	Dr. Manoj Gaur	156	2	0
2.	Dr.Pratesh Jayaswal	303	6	6
3.	Dr. C.S Malvi	110	5	1
4.	Dr. Manish Sagar	40	4	0
5.	Prof. Vedansh Chaturvedi	215	8	7
6.	Dr. Jyoti Vimal	120	7	4
7.	Prof. Dinesh Kasdekar	16	2	0
8.	Prof. Sharad Aggarwal	6	0	0
9.	Prof.Vaibhav Shivhare	21	3	0
10.	Dr. Amit Aherwar	119	6	3
11.	Dr. Dharmendra Jain	17	3	0

Electrical Engineering :

S. No.	Name of Faculty	Source	Citations	h-index	i10-index
1.	Dr. Laxmi Srivastava	Google Scholar	2058	22	52
		Scopus	1272	18	
		Research Gate	1501		
2.	Dr. Manjaree Pandit	Google Scholar	1808	20	36
		Scopus	1092	16	
		Research Gate	1293		
3.	Dr. A K Wadhwani	Scopus	164	6	
4.	Dr. Sulochana Wadhwani	Scopus	40	5	
5.	Dr. Harimohan Dubey	Google Scholar	460	12	15
		Scopus	169	7	
		Research Gate	278		
6.	Dr. Shishir Dixit	Google Scholar	63	4	3
		Scopus	26	3	
		Research Gate	319		
7.	Prof. Himmat Singh	Google Scholar	107	6	2
8.	Prof. Kuldeep Kumar Swarnkar	Google Scholar	103	6	3
9.	Prof. Praveen Bansal	Google Scholar	10	2	-
		Scopus	1	1	
10.	Prof. Vishal Chaudhary	Google Scholar	19	1	1
		Research Gate	5		

Electronics Engineering :

S. No.	Name of Faculty	Citation	h-index	i10-index
1	Dr. P.K. Singhal	610	11	14
2	Dr. Rekha Gupta	169	6	3
3	Dr. Vandana Vikas Thakare	112	6	4
4	Dr. Bimal Garg	192	8	5
5	Dr. Laxmi Shrivastava	234	9	9
6	Prof. R.P. Narwaria	36	3	2

7	Prof. Karuna Markam	4	1	0
8	Prof. Madhav Singh	10	1	0
9	Prof. Deep Kishore Parsediya	12	2	0
10	Dr. Sarthak Singhal	76	4	2
11	Dr. Vikas Mahor	19	2	0
12	Prof. Ranbeer Tyagi	38	4	1

CS/IT :

S. No.	Name of Faculty	Citation	h-index	i10-index
1	Dr.Akhilesh Tiwari	246	9	9
2	Dr. Manish Dixit	179	8	7
3	Prof. Khushboo Agarwal	3	1	0
4	Prof. Punit K. Johari	59	4	1
5	Dr. Sanjeev Sharma	3328	27	59
6	Prof. Abhilash Sonker	5	1	0
7	Prof. Jaimala Jha	17	2	0
8	Prof. Jamvant S. Kumare	5	1	0
9	Prof. Rajeev K. Singh	95	5	2
10	Prof. Neha Bhardwaj	23	2	0
11	Prof Rajni Ranjan Makwana	34	4	0
12	Prof. Mahesh Parmar	18	3	0
13	Prof. Amit Manjhwar	12	2	0
14	Prof. Vishakha Agrawal	2	1	0
15	Prof. Nishtha Parashar	4	1	0
16	Prof. Abhishek Dixit	2	1	0

Chemical :

S. No.	Name of Faculty	Citation	h-index	i10-index
1	Prof. Sumint Singh Trivedia	36	3	1

Biotechnology :

S. No.	Name of Faculty	Citation	h-index	i10-index
1	Dr. Sunita Sharma	93	6	4
2	Dr. Sharad Verma	265	7	6
3	Dr. Prangya Ranjan Rout	138	6	4
4	Mr. Vinod Kumar Jatav	12	2	0

Applied Science :

S.No.	Name of faculty	Citation	h-index	i-index
1	Dr. D.K. Jain	12	2	0
2	Dr. Anjula Gaur	03	1	0
3	Dr. Shourabh Bhattacharya	85	4	3
4	Dr. Uday Pratap Singh	112	6	4
5	Dr. Deobrat Singh	04	1	0
6	Dr. Prachi Sharma	05	1	0
7	Dr. Gargi Mukherjee	520	9	9
8	Dr. Jashobanta Sahoo	100	6	3
9	Dr. Ashish Verma	12	3	0
10	Dr. Sonal Jain	33	3	0

Annexure VII

RESEARCH, CONSULTANCY, OTHER FUNDING, EXTENSION (PROJECTS ONGOING)

S. No.	Name of Principal Investigator	Title	Name of Agency	File No.	Sanction Date	Approved Duration	Grant-in-aid Sanctioned	Amount to be Released
Civil Engineering								
1	Dr. M. K. Trivedi Co-ordinator	(Extension Activity) State Technical Agency, MITS, Gwalior	NRRDA New Delhi	**STA** (State Technical Agency, MITS, Gwalior)	Nov 2013	Continuous	--	As Per DPR of Seven District of Gwalior & Chambal Region Under PMGSY Scheme
Mechanical Engineering								
1	Dr. C S Malvi	Distinguished Visiting Professorship (DVP) Scheme	AICTE - INAE	--	March 2017	31 July 2019	--	Travel and honorarium sanctioned and paid to distinguished ISRO Scientist
2	Dr. M K Gaur	Heat and Mass Transfer Analysis of Hybrid Solar Dryer with uniform Heating	AICTE, New Delhi	8-173/RIFD/RPS/ POLICY-1/2014-15	March 2015	3 Years	**Rs. 1352941/-** (Rs. 1150000/- for Non-recurring and Rs. 202941/- for Recurring)	**13.52 Lakhs**
3	Dr. Rajesh Kumar (Dr. M K Gaur)	Performance Analysis of Solar Operated Absorption Refrigeration System.	AICTE, New Delhi	8023/RID/RPS-63/2011-12	December 2011	2 Years	**Rs. 1030000/-**	**10.30 Lakhs**
4	Dr. M K Gaur	Advanced Refrigeration and Air Conditioning Lab (Under MODROB Scheme)	AICTE, New Delhi	9-62/RIFD/ MODROB/Policy-1/2016-17	2017	2 Years	**Rs. 650000/-** (Rs. 535294/- for Non-recurring and Rs. 114706/- for Recurring)	**Rs. 650000/-**
Electrical Engineering								
1	Dr. Laxmi Srivastava	Up-gradation of Electrical Machines and Drive Lab	AICTE, New Delhi	9-49/RIFD /MODROB/Policy-1/2016-17	2017	2 Years	**Rs. 929950/-** (Rs. 765841/- for Non-	**Rs. 929950/-**

		(Under MODROB Scheme)					recurring and Rs. 164109/- for Recurring)	
2	Dr. Manjaree Pandit	Addressing power system operational challenges with Renewable Energy Resources using nature inspired optimization technique. (Under RPS Scheme)	AICTE, New Delhi	8-36/RIFD/RPS/ POLICY-1/2016-17	02 August 2017	3 Years	**Rs. 1235264/-** (Rs. 1050000/- for Non-recurring and Rs. 185294/- for Recurring)	**Rs. 1216765/-**
Electronics Engineering								
1	Dr. S.S. Bhadauria Dr. L. Shrivastava	Fuzzy Logic Based Congestion Control for Mobile Adhoc Networks	M.P. Council of Science & Technology, Bhopal	A/RD/RP-2/2014-15/236	2014	2 Years	**Rs. 305000/-**	**Rs. 235000/-**
CS/IT								
1	Dr. R.K. Gupta	Modernization of Hardware Laboratory (Under MODROB Scheme)	AICTE, New Delhi	9-39/RIFD/ MODROB/Policy-1/2016-17	2017	2 Years	**Rs. 290000/-** (Rs. 238824/- for Non-recurring and Rs. 51176/- for Recurring)	**Rs. 290000/-**
Humanities								
1	Dr. Sanjeev Khanna	Language Laboratory Upgradation (Under MODROB Scheme)	AICTE, New Delhi	9-58/RIFD/ MODROB/Policy-1/2016-17	2017	2 Years	**Rs. 1200000/-** (Rs. 988235/- for Non-recurring and Rs. 211765/- for Recurring)	**Rs. 1200000/-**

RESEARCH, CONSULTANCY, OTHER FUNDING, EXTENSION (PROJECTS COMPLETED THIS YEAR)

S.No.	Name of PI	Title	Date	Amount
Applied Science				
1	Dr. Anjula Gaur (CST/R&D/Phy. & Engg. Sc/2015)	Study on removal of dyes from industrial effluents using eco friendly non-conventional Bio absorbent	DEC. 2017	Rs.4.28 lacs only

INVOLVEMENT OF FACULTY AS EXPERTS & RESOURCE PERSONS

S.No.	Name of Faculty	Expert Lecture	Organized By	Whether International /National/State /Regional/College or Uni. Level
Civil Engineering				
1.	Dr. S.K. Jain	Earthquake Resistant Design of Structures through Base isolation	Amity University Madhya Pradesh Gwalior (31/08/ 2017)	Regional level
Mechanical Engineering				
2.	Dr. Amit Aherwar	Introduction to Rapid Manufacturing: 3D Printing and Rapid Prototyping	Manav Bharti University, Himachal Pradesh (Jan 20th, 2018)	National level
3.	Dr. Amit Aherwar	Design of Experiments: A practical approach for Manufacturing Engineers	Kautilya Institute of Technology & Engineering, Jaipur (Oct 14th, 2017).	National level
4.	Dr. Amit Aherwar	Materials Processing and Characterization	Kautilya Institute of Technology & Engineering, Jaipur (Oct 14th, 2017).	National level
5.	Prof. C.S. Malvi	NBA Accreditation	DTE Bhopal at REC Rewa	State level
6.	Prof. Manish Sagar	NBA Accreditation	DTE Bhopal at REC Rewa	State level
7.	Prof. C.S. Malvi	Recent trends in the field of solar power manufacturing	Vikrant, Gwalior	Regional level
8.	Prof. C.S. Malvi	Solar & Wind integration for urban societies	Vikrant, Gwalior	Regional level
9.	Prof. C.S. Malvi	Solar energy: Advances and opportunities for sustainable development	Swami vivekanand Subharti University, Meerut	National level
10.	Prof. C.S. Malvi	How to write research paper	MITS, Gwalior	College level

Electrical Engineering

• Dr. Manjaree Pandit Delivered expert lecture on "Outcome Based Education in Technical & Higher Educational Institutions" on 12th October 2017 in two-week DST sponsored FDP organized by the ED Cell of MITS Gwalior from 7th Oct-20th Oct. 2017
• Dr. Manjaree Pandit Delivered expert lecture on "Self Learning" on 11th January 2018 in two-week DST sponsored FDP organized by the Entrepreneurship Development Cell of MITS Gwalior from 9th January-19th January 2018
• Dr. Manjaree Pandit Delivered expert lecture on "Outcome Based Education & NBA Accreditation", in AICTE-QIP Short-term Course

from 10th to 14th March 2018 on "Assuring Global Quality in Technical Education through Outcome Based Education" under the IQAC at MITS, Gwalior.
• Dr. Manjaree Pandit Delivered expert lecture on "NI Techniques and their Engineering Applications with MATLAB implementation" in one-week AICTE-QIP Short-term Course (STC) on "Numerical Application to Electromagnetics" on 29th January 2018, at MITS, Gwalior.
• Dr. Manjaree Pandit Delivered expert lecture on "Optimization techniques and its Engineering Applications", in one-week AICTE-QIP Short-term Course (STC) on "Nature Inspired Optimization and its MATLAB implementation" on 17th March 2018, at MITS, Gwalior.
• Dr. Manjaree Pandit Delivered expert lecture on "Hybrid wind-solar Micro-grid" in RGPV-TEQIP-III sponsored one-week FDP on "Emerging Technologies for Smart Cities", on 29.3.18 at Vikrant Inst. of Tech. & Management, Gwalior.

CS/IT

Dr. Akhilesh Tiwari	Editor of International Journal of Computing Science and Communication Technologies **(ISSN 0974-3375)**
R. R. Singh Makwana	In the editorial board of IJCSSCA ISSN(0): 2454-5651 (International Journal of Computer Security & Source Code Analysis)
Dr. Manish Dixit	Reviewer of conference IDEA 2017 International Conference on Data, Engineering and applications 2017 held at RGPV Bhopal
Dr. Manish Dixit	Delivered an expert lecture on image processing using MATLAB at THDC-IHET Tehri, Uttrakhand, Jan 2018
Dr. Manish Dixit	Delivered an expert lecture on "Use of Science & Technology for Society " held at Vikrant Institute of Technology & Management, Gwalior, Feb-2018

FACULTY AS EXPERTS IN COMMITTEES:

S.No.	**Name of Faculty**	**Name of Committees**	**Place**	**Whether International /National/State /Regional/College or Uni. Level**
Mechanical Engineering				
1.	Dr. C.S. Malvi	PhD, RDC Committee	Mechanical Engineering Department, DTU, Delhi	National level
2.	Dr. C.S. Malvi	Subject expert interview panel	ITM, Gwalior	Regional Level
3.	Dr. C.S. Malvi	Project review committee, AQIS	AICTE, New Delhi	National level

4.	Dr. C.S. Malvi	Member of BOS, Mechanical & Automobile engineering	RGPV, Bhopal	State level
5.	Dr. C.S. Malvi	Subject expert interview panel "Energy"	UTD, RGPV Bhopal	State level
6.	Dr. C.S. Malvi	Technical expert solar roof top installation	IHM, Gwalior	Regional Level
7.	Dr. M.K. Gaur	BOS & Research Committee	AMITY, Gwalior	Regional Level
8.	Dr. M.K. Gaur	BOS	SATI, Vidisha	State level
Electrical Engineering				
1	Dr. Manjaree Pandit	Programme Committee member of the 12th International Conference on Bio-inspired Computing: Theories and Applications BIC-TA-2017 December 1st --3rd , 2017	Harbin, China	International Level

FACULTY AS EXPERTS IN JUDGE/ADVISOR/ORGANIZER :

Electrical Engineering
• Prof. Vishal Chaudhary worked as Judge at Talent Hunt of IET On Campus Fest at MITS Gwalior by IET Student Chapter on 23rd Sept 2017
• Prof. Vishal Chaudhary (Faculty Advisor) Representing MITS Gwalior participated in the National e-KART RACING CHAMPIONSHIP 2017 held at RPM International Kart Racing Circuit, Bhopal from 29th September to 03rd October 2017.
• Prof. Vishal Chaudhary has successfully organised the zonal round of Central India's Largest Quiz Fest, ChimeraX; under the flagship of ISTE MANIT Bhopal as Faculty Advisor ISTE Student Chapter MITS on 27th January, 2018.
• Prof. Vishal Chaudhary has successfully organized "Yoga Workshop" as Faculty Coordinator Yoga Club, MITS Gwalior on 30th January, 2018.
• Prof. Vishal Chaudhary has organized Expert Talk 'How to Study effectively?' as Faculty Advisor ISTE Student Chapter MITS on 8th Feb, 2018.
• Prof. Vishal Chaudhary has successfully organized A Research paper presentation based event AAROHAN2k18 as Faculty Advisor ISTE Student Chapter MITS on 24th March, 2018

FACULTY AS EXPERT TALK

Name of faculty	Talk on Topic
Electronics Engineering	
Dr. P. K. Singhal	5Talks in AICTE sponsored (QIP grant) STC on Numerical Methods in Electromagnetics at MITS Gwalior from 27/01/18 to 31/01/18
Dr. Vandana Vikas Thakare	3 Talks in AICTE sponsored (QIP grant) STC on Numerical Methods in Electromagnetics at MITS Gwalior from 27/01/18 to 31/01/18
Dr. Bimal Garg	2 Talks in AICTE sponsored (QIP grant) STC on Numerical Methods in Electromagnetics at MITS Gwalior from 27/01/18 to 31/01/18**.** Technical talk in july 2017 on National channel Doordarshan.
Dr.Rekha Gupta	1 Talk in AICTE sponsored (QIP grant) STC on Numerical Methods in Electromagnetics at MITS Gwalior from 27/01/18 to 31/01/18**.**
Dr. Laxmi Shrivastava	1 Talk in AICTE sponsored (QIP grant) STC on Numerical Methods in Electromagnetics at MITS Gwalior from 27/01/18 to 31/01/18**.**

FACULTY AS REVIEWERS OF JOURNALS :

S.No.	Name of Faculty	Reviewers of Journals
		Mechanical Engineering
1.	Dr. Pratesh Jayaswal	(i) Journal of Vibration and Control, SAGE Publication. (ii) Proceeding of the Institution of Mechanical Engineers, Part C, Journal of Mechanical Engineering Science, London UK., SAGE Publication. (iii) Australian Journal of Mechanical Engineering, Taylor & Francis Publication (iv) Journal of Manufacturing Engineers'' (JME) published by Society for Manufacturing Engineering. (v) Renewable Energy-an International Journal, Elsevier (vi) Journal of Quality in Maintenance Engineering, Emerald Publication (vii) IEEE Transactions on Systems, Man and Cybernetics (viii) IEEE Access
2.	Dr. C.S. Malvi	(i) Journal of micro machining, SAGE (ii) Environment progress & sustainable energy, ASME (iii) Low Dimensional system & Nano structures, Elsevier (iv) International journal of energy research, Willey.
3.	Dr. M.K. Gaur	(i) Solar Energy, Elsevier

		(ii) (iii)	Desalination Energy conversion & management
4.	Dr. Amit Aherwar	(i) (ii)	Journal of Silicon, Springer Journal of the Brazilian Society of Mechanical Sciences and Engineering (BSME), Springer.
Electrical Engineering			
1.	Dr. Manjaree Pandit	(i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix) (x) (xi) (xii) (xiii)	IEEE Transactions on Power Systems IET Renewable Power generation IET Generation, transmission & Distribution IET Smart Grid Cognitive Computation (Springer) Engineering Applications of Artificial Intelligence (Elsevier) Energy Conservation & Management (Elsevier) Renewable Energy (Elsevier) Applied Energy (Elsevier) Applied Soft Computing (Elsevier) Swarm and Evolutionary Computation (Elsevier) International Journal of Electrical power & Energy Systems (Elsevier) Journal of Institution of Engineers, India-Series –B(EE) (Springer)
2.	Dr. Laxmi Shrivastav	(i) (ii) (iii) (iv) (v) (vi) (vii)	IEEE Transactions on Power Systems IEEE Transactions on Cybernetics Applied Soft Computing (Elsevier) Renewable Energy Focus, (Elsevier) Cogent Engineering, (Taylor & Francis) Electric Power Components and Systems, (Taylor & Francis) International Journal of Modelling and Simulation, (Taylor & Francis)
3.	Dr. H.M. Dubey	(i) (ii) (iii) (iv) (v) (vi) (vii)	International Journal of ENGINEERING SCIENCE AND TECHNOLOGY, AN INTERNATIONAL JOURNAL(Elsevier) International Journal of CLEANER PRODUCTION (Elsevier) Energy & Environment International Journal of Machine Learning and Cybernetics(Spinger) International Transactions on Electrical Energy Systems (wiley) International Journal of Bio-Inspired Computation(inderscience) Journal of Experimental & Theoretical Artificial Intelligence(Taylor & Francis)
Electronics Engineering			

1.	Dr. Vandana Vikas Thakare	(i) PIERS (ii) Science Direct (iii) Springer
2.	Dr. Sarthak Singhal	IEEE Antenna And Wireless Propagation Letters, USA IEEE Access, USA Wireless Personal Communication, Springer, Springer, Netherland Applied Computational Electromagnetic Society(ACES) Journal, USA IET Microwaves, Antenna & Propagation, UK IET Electronics Letters, UK ETRI Journal, Republic Of Korea Wiley-International Journal Of RF And Microwave Computer-Aided Engineering Frequenz Journal Of RF-Engineering And Telecommunications, Germany International Journal Of Electronics And Communications, Elsevier, Netherland International Journal Of Antennas & Propagation, Hindawi , United Kingdom Asia Pacific Microwave Conference 2017 To Be Held In Kuala Lumpur, Malaysia 2017 IEEE 13th Malaysia International Conference On Communications (MICC) Held Johor Bahru, Malaysia
3.	Dr. Vikas Mahor	IEEE Transaction on Semiconductor Materials, USA Journal of Circuits Systems & Computers, WSJ, USA Circuits Systems & Signal Processing, Springer, UK Journal of Low Power Electronics, ASP, USA
4.	Dr. Sudhakar Modem	IEEE Systems Journal, IEEE Communication Letters

NATIONAL SERVICE SCHEME

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

GWALIOR-474005

National Service Scheme Activities during Academic Year 2017-18

Date: 15/05/2018

1. **Water Distribution Programme at Railway Station:**
   National Service Scheme, Jiwaji University, Gwalior organised a water distribution programme at railway station on 17/06/2017. Twenty five students/ volunteers of NSS unit MITS with programme officer were participated in this event.

2. **Rally & Oath on Swachchhata Pakhawada:**
   National Service Scheme, Jiwaji University, Gwalior organised a rally during "Swachchhata Pakhawada" i.e. **04/08/2017** (Friday) from Maharani Laxmi Bai Samadhi to Jiwaji University. Twenty students/ volunteers of NSS unit MITS with programme officer were participated in this event.

3. **New India Pledge:**
   NSS unit organized a programme of New India Pledge on occasion of 75th anniversary of Quit India Movement i.e. **09/08/2017**.

4. **Swachchhaya Bharat Abhiyan Oath and International Youth Day:**
   NSS unit and MITS-AID club organized a oath on swachchhaya bharat abhiyaan and open discussion with student on International Youth Day **(12/08/2017)** on "Role of Youth

to Build our Institute, Society and the Nation as Per Our Goals and Dreams". Two hundred twenty four students were participated in this event.

5. Literacy cum Awareness Programme:

The N.S.S. unit is continuously running literacy cum awareness progromme for the underprivileged children in the institute premises since year 2011. During the academic year 2017-18, Forty Five NSS volunteers started to teach the underprivileged children from **16/08/2017** on regular basis (Monday to Friday) at 4:30 P.M. to 6:30 P.M.

6. Sadbhavana Divas Oath:

NSS unit organized an oath on Sadabhavana Divas (18/08/2017). One hundred twelve students and 15 faculty and staff member were participated in this event.

7. Plantation programme:

NSS unit organized a plantation programme (15/09/2017). The volunteers of NSS unit, MITS planted the 50 sibling in the institute campus.

8. Seminar on Solid Waste Management:

A seminar on "Solid waste management" was organized by NSS unit on 16/09/2018 (Saturday) and approximately 280 students were attended it.

9. Cycle Rally:

National Service Scheme, Jiwaji University, Gwalior organised Cycle rally under sankalp se sidhh on 17/09/2017. NSS unit and Cycle Club participated with twenty five students/ volunteers with programme officer.

10. Traffic Awareness Programme:

NSS unit organized an seminar on "Traffic Awareness" Programme on 17/09/2017. 282 students were participated in this event.

11. One week workshop:

NSS unit and MITS AID club organized one week workshop from 17/09/2017 to 30/09/2017 at Shanti Nagar, Beside JCB Mill and organized the various social awareness programme for children, women and men.

12. One Day Camp:

One Day Camp organized by NSS unit at "शासकीय दृष्टि एवं श्रवण बाधितार्थ उच्चतर माध्यमिक विद्यालय, मुरार, ग्वालियर" on 23/09/2017.

13. NSS Day:

Organize a cultural programme (Dance, Poetry, Music and Nukad Natak with social Messages) on NSS Day i.e. 24/09/2017 under National Service Scheme Unit.

14. Blood Donation Camp:

NSS unit and Red Ribbon Club, MITS organized the blood donation camp on occasion of the Punya-Tithi of Late His Highness Shrimant Madhav Rao Scindia (30th September 2017, Saturday). 120 units were donated to Red Cross society.

15. Swachchhaya Bharat Abhiyan Rally:

NSS unit organized a rally from MITS to Gandhi Club and take the "Swachchhata Shapath" with 284 students on 02/10/2017 and return to MITS.

16. Rally on Pollution free Deepawali:

NSS unit MITS organized a rally on "Pollution Free Deepawali" on 07/10/2017 (Saturday) from MITS to 7 No chauraha via gola ka mandir and return to MITS by same way. 400 volunteers participated.

17. One Day Camp (Dental Camp, Eye Camp, Anti Tabacco Seminar and Yoga Programme):

NSS unit and Red Ribbon Club, MITS organized the Eye and dental Camp, Anti Tabacco Seminar and Yoga camp on 29/10/2017. Approximately 214 students were presented during this programme.

18. Oath on Rashtreeya Ekta Diwas:

NSS unit MITS organized a programme of Oath on Rashtreeya Ekta Diwas (Birth ceremony of Sardar Ballabhav Bhai Patel) on 31/10/2017. Approximately 160 students were participated.

19. Matdaata Diwas Oath:

National Service Scheme and MITS- AID Club organized a programme on "Matdaata Diwas Oath" on 25/01/2018. Approximately 500 faculty, staff and students were take the oath.

20. Gender Equality/ Gender Sensitization:

NSS and Red Ribbon Club organized a programme on gender equality –open mic completion on 09/02/2018 and 10/02/2018. 165 students were participated in this.

21. Rally on AIDS Awareness:

NSS and Red Ribbon Club organized a rally on AIDS awareness from MITS to Morar Chauraha and return back on 22/02/2018. 64 students were participated in this.

Annexure IX

Submitted for information only

(Dr Manish Kumar Sagar)
Programme Officer, NSS

Annexure X

Placement Details of Students for the Year 2017-2018

B.E. Civil Engg.

Sl. No.	Name of Student	Year of Passing	Company Name
1.	Aditya Juaria	2018	Accenture
2.	Adityaa Chaturvedi	2018	Accenture
3.	Ajay Sharma	2018	Accenture
4.	Amol Singhal	2018	Accenture
5.	Anchal Awasthi	2018	Accenture
6.	Apurva Dubey	2018	Accenture
7.	Deepali Jain	2018	Accenture
8.	Kangan Kaushik	2018	Accenture
9.	Parv Pandey	2018	Accenture
10.	Prachi Gupta	2018	Accenture
11.	Sargam Jain	2018	Accenture
12.	Shubham Mittal	2018	Accenture
13.	Tanu Bhawsar	2018	Accenture
14.	Ajay Sharma	2018	Tata Projects
15.	Deepali Jain	2018	Tata Projects
16.	Sargam Jain	2018	Tata Projects
17.	Ayush Choudheri	2018	Tata Projects
18.	Dharneesh Kumar Pandey	2018	BORL
19.	Amol Singhal	2018	DCM Shriram
20.	Akhilesh Asati	2018	TradeIndia Research
21.	Akhilesh Kumar Ojha	2018	TradeIndia Research
22.	Akshay Verma	2018	TradeIndia Research
23.	Apala Tripathi	2018	TradeIndia Research
24.	Ashish Asati	2018	TradeIndia Research
25.	Atul Barala	2018	TradeIndia Research
26.	Lovelesh Gupta	2018	TradeIndia Research
27.	Mayank Bhargava	2018	TradeIndia Research
28.	Mohammad Salman	2018	TradeIndia Research
29.	Naveen Kareria	2018	TradeIndia Research
30.	Pradeep Kumar Patel	2018	TradeIndia Research
31.	Pushpendra Sahu	2018	TradeIndia Research
32.	Rahul Singh	2018	TradeIndia Research
33.	Saurabh Chaturvedi	2018	TradeIndia Research
34.	Shesh Raj Singh	2018	TradeIndia Research
35.	Shiv Pratap Singh Dhakar	2018	TradeIndia Research
36.	Shivam Gupta	2018	TradeIndia Research
37.	Sourav Singh	2018	TradeIndia Research
38.	Aditya Juaria	2018	Inidan Hume Pipes
39.	Adityaa Chaturvedi	2018	Inidan Hume Pipes
40.	Anchal Awasthi	2018	Indian Hume Pipes
41.	Atul Barala	2018	India Hume Pipes
42.	Kamal Manglani	2018	India Hume Pipes
43.	Lovelesh Gupta	2018	Indian Hume Pipes
44.	Mansi Shrivastava	2018	Indian Hume Pipes
45.	Mayank Bhargava	2018	Indian Hume Pipes
46.	Prateek Mishra	2018	Indian Hume Pipes
47.	Prerna Kunhare	2018	Indian Hume Pipes
48.	Rahul Singh	2018	India Hume Pipes
49.	Rajat Jain	2018	India Hume Pipes
50.	Sachin Mishra	2018	Indian Hume Pipes

51.	Shiv Pratap Singh Dhakar	2018	Indian Hume Pipes
52.	Shivani Kandil	2018	Indian Hume Pipes
53.	Shubham Mittal	2018	Indian Hume Pipes
54.	Siddharth Rai	2018	Indian Hume Pipes
55.	Yogesh Dixit	2018	Indian Hume Pipes

B.E. Mechanical Engg.

Sl. No.	Name of Student	Year of Passing	Company Name
1.	Abhishek Kumar Singh	2018	Accenture
2.	Aditya Gupta	2018	Accenture
3.	Aditya Agrawal	2018	Accenture
4.	Akanksha Rai	2018	Accenture
5.	Akash Dubey	2018	Accenture
6.	Akash Sahu	2018	Accenture
7.	Ankita Singh Deora	2018	Accenture
8.	Anubhav Mishra	2018	Accenture
9.	Anupriya Sahni	2018	Accenture
10.	Archita Maurya	2018	Accenture
11.	Bhumika Gohiya	2018	Accenture
12.	Chanchal Jaiswal	2018	Accenture
13.	Dilshad Alam	2018	Accenture
14.	Mahima Patel	2018	Accenture
15.	Mangil Rai	2018	Accenture
16.	Manvi Nigam	2018	Accenture
17.	Pranav Gupta	2018	Accenture
18.	Rishabh Sharma	2018	Accenture
19.	Sahil Gulati	2018	Accenture
20.	Sanskar Ghatiya	2018	Accenture
21.	Saransh Sharma	2018	Accenture
22.	Saurabh Khare	2018	Accenture
23.	Shivam Kumar Mishra	2018	Accenture
24.	Shivani Parashar	2018	Accenture
25.	Shivani Raghuwanshi	2018	Accenture
26.	Sudhanshu Kumar	2018	Accenture
27.	Vaibhav Nigam	2018	Accenture
28.	Vineet Chhari	2018	Accenture
29.	Vineet Chandra Thakur	2018	Accenture
30.	Vishrant Mishra	2018	Accenture
31.	Anubhav Mishra	2018	Capgemini
32.	Mayank Jain	2018	Britannia
33.	Ravi Kushwaha	2018	Britannia
34.	Sanskar Ghatiya	2018	Indian Oil-Adani Gas Pvt. Ltd
35.	Shantanu Rathore	2018	Indian Oil-Adani Gas Pvt. Ltd
36.	Shivam Kumar Mishra	2018	Indian Oil-Adani Gas Pvt. Ltd
37.	Vishrant Mishra	2018	Indian Oil-Adani Gas Pvt. Ltd
38.	Abhishek Yadav	2018	TradeIndia Research
39.	Aman Kumar Jha	2018	TradeIndia Research
40.	Amrit Lal Prajapati	2018	TreadeIndia Research
41.	Anuj Kumar Mishra	2018	TradeIndia Research
42.	Atul Bhade	2018	TradeIndia Research
43.	Azad Kumar Mishra	2018	TradeIndia Research
44.	Chandan Kumar Singh	2018	TradeIndia Research
45.	Dayashankar Anuragi	2018	TradeIndia Research
46.	Devendra Pratap Singh	2018	TradeIndia Research

47.	Dharmendra Bhadoria	2018	TradeIndia Research
48.	Divyansh Singh Sisodia	2018	TradeIndia Research
49.	Gopi Krishna Awasthi	2018	TradeIndia Research
50.	Jaideep Singh	2018	TradeIndia Research
51.	Jatin Pippal	2018	TradeIndia Research
52.	Jaya Kori	2018	TradeIndia Research
53.	Mohit Soni	2018	TradeIndia Research
54.	Mukul Choudhary	2018	TradeIndia Research
55.	Prakhar Singh Baghel	2018	TradeIndia Research
56.	Pramila Patel	2018	TradeIndia Research
57.	Raj Prince Shivhare	2018	TradeIndia Research
58.	Ravi Gupta	2018	TradeIndia Research
59.	Riya Kushwah	2018	TradeIndia Research
60.	Roopal Shrivastava	2018	TradeIndia Research
61.	Sachin Gupta	2018	TradeIndia Research
62.	Saransh Sharma	2018	TradeIndia Research
63.	Saurabh Vishwakarma	2018	TradeIndia Research
64.	Saurabh Kumar	2018	TradeIndia Research
65.	Shailja Katare	2018	TradeIndia Research
66.	Shantanu Rathore	2018	TradeIndia Research
67.	Shekhar Gupta	2018	TradeIndia Research
68.	Shivam Raghuwanshi	2018	TradeIndia Research
69.	Shivam Tyagi	2018	TradeIndia Research
70.	Shubham Gupta	2018	TradeIndia Research
71.	Shubham Srivastava	2018	TradeIndia Research
72.	Sweety Rathore	2018	TradeIndia Research
73.	Akanksha Rai	2018	Asahi India Glass Ltd.
74.	Aman Gupta	2018	Asahi India Glass Ltd.
75.	Divyansh Singh Sisodia	2018	Asahi India Glass Ltd.
76.	Sweety Rathore	2018	Asahi India Glass Ltd.
77.	Dilshad Alam	2018	BYJU's
78.	Abhishek Kumar Singh	2018	Jamna Auto
79.	Akanksha Rai	2018	Jamna Auto
80.	Ashish Dangi	2018	Jamna Auto
81.	Raj Prince Shivhare	2018	Jamna Auto
82.	Saransh Sharma	2018	Jamna Auto
83.	Sawan Malviya	2018	Jamna Auto
84.	Shivam Raghuwanshi	2018	Jamna Auto
85.	Shivam Tyagi	2018	Jamna Auto
86.	Shubham Srivastava	2018	Jamna Auto
87.	Suchitra Malviya	2018	Jamna Auto
88.	Vaibhav Jain	2018	Jamna Auto
89.	Arunangsho Dey	2018	Grifeo Technologies
90.	Kamal Kishor	2018	Grifeo Technologies
91.	Rahul	2018	Grifeo Technologies
92.	Rajesh Singh	2018	Grifeo Technologies
93.	Saurabh Kumar	2018	Grifeo Technologies
94.	Shailja Katare	2018	Grifeo Technologies
95.	Shivam Barya	2018	Grifeo Technologies
96.	Shubham Gupta	2018	Grifeo Technologies
97.	Abhishek Yadav	2018	A-1 Fence
98.	Riya Kushwah	2018	A-1 Fence
99.	Sahil Gulati	2018	A-1 Fence
100.	Abhishek Yadav	2018	Samsung India
101.	Sahil Gulati	2018	Samsung India

102.	Saransh Sharma	2018	Samsung India
103.	Shekhar Gupta	2018	Samsung India
104.	Sudhanshu Kumar	2018	Samsung India
105.	Vineet Chandra Thakur	2018	Samsung India
106.	Abhishek Yadav	2018	Mahindra
107.	Jatin Pippal	2018	Mahindra

B.E. Electrical Engg.

Sl. No.	Name of Student	Year of Passing	Company Name
1.	Aayush Jain	2018	Accenture
2.	Ankit Kekre	2018	Accenture
3.	Anurag Khandelwal	2018	Accenture
4.	Anushree Shrivastava	2018	Accenture
5.	Arshad Ahmed	2018	Accenture
6.	Ayush Singh Kushwah	2018	Accenture
7.	Ayushi Bhardwaj	2018	Accenture
8.	Bhumika Bairagi	2018	Accenture
9.	Chintan Gupta	2018	Accenture
10.	Divya Tripathi	2018	Accenture
11.	Ekta Shrivastava	2018	Accenture
12.	Gaurav Singh	2018	Accenture
13.	Ishita William	2018	Accenture
14.	Nidhi Solanki	2018	Accenture
15.	Piyush Soni	2018	Accenture
16.	Priyanka Panda	2018	Accenture
17.	Priyansh Dubey	2018	Accenture
18.	Rajul Nema	2018	Accenture
19.	Ritu Singh	2018	Accenture
20.	Shalini Shrivastava	2018	Accenture
21.	Shambhabi Saha Roy	2018	Accenture
22.	Shivani Rana	2018	Accenture
23.	Shriya Tiwari	2018	Accenture
24.	Soumya Shrotriya	2018	Accenture
25.	Swapnil Rajput	2018	Accenture
26.	Vaibhav Shrivastava	2018	Accenture
27.	Himanshu Mishra	2018	IBM
28.	Rajat Khotele	2018	IBM
29.	Rajul Nema	2018	IBM
30.	Sachin Bakodiya	2018	IBM
31.	Shambhabi Saha Roy	2018	IBM
32.	Vaibhav Shrivastava	2018	IBM
33.	Anurag Khandelwal	2018	Capgemini
34.	Sachin Upadhyay	2018	Capgemini
35.	Shriya Tiwari	2018	Tata Projects
36.	Ankit Kekre	2018	Indian Oil-Adani Gas Pvt. Ltd
37.	Anshul Sharma	2018	Indian Oil-Adani Gas Pvt. Ltd
38.	Abhay Kumar Tiwari	2018	TradeIndia Research
39.	Abhishek Kumar Gupta	2018	TradeIndia Research
40.	Ajay Singh	2018	TradeIndia Research
41.	Amit Kumar Mishra	2018	TradeIndia Research
42.	Ankur Singh	2018	TradeInida Research
43.	Ankush Kumar Singh	2018	TradeInida Research

44.	Bharti Gautam	2018	TradeIndia Research
45.	Himanshu Mishra	2018	TradeIndia Research
46.	Kapil Goyal	2018	TradeIndia Research
47.	Kumar Rishav	2018	TradeIndia Research
48.	Mohd Asif	2018	TradeIndia Research
49.	Nishant Mishra	2018	TradeIndia Research
50.	Pawan Nagwanshi	2018	TradeIndia Research
51.	Pradhumn Soni	2018	TradeIndia Research
52.	Rajendra Kumar Mandal	2018	TradeIndia Research
53.	Rupali Thakre	2018	TradeIndia Research
54.	Saurabh Shukla	2018	TradeIndia Research
55.	Shefali Soin	2018	TradeIndia Research
56.	Shivani Agrawal	2018	TradeIndia Research
57.	Shivi Tripathi	2018	TradeIndia Research
58.	Shubham Gupta	2018	TradeIndia Research
59.	Shuddatam Jain	2018	TradeIndia Research
60.	Vikas Khemariya	2018	TradeIndia Research
61.	Vishal Jain	2018	TradeIndia Research
62.	Vivek Bilavadiya	2018	TradeIndia Research
63.	Mohd Asif	2018	Jamna Auto
64.	Rajendra Kumar Mandal	2018	Jamna Auto
65.	Rupali Thakre	2018	Jamna Auto
66.	Saurabh Shukla	2018	Jamna Auto
67.	Abhishek Tiwari	2018	Grifeo Technologies
68.	Amit Kumar Mishra	2018	Grifeo Technologies
69.	Anoop Sharma	2018	Grifeo Technologies
70.	Arun Kumar Prajapati	2018	Grifeo Technologies
71.	Dipesh Arsey	2018	Grifeo Technologies
72.	Gopiyan Shakya	2018	Grifeo Technologies
73.	Irshad Mohammad	2018	Grifeo Technologies
74.	Jyoti Baneriya	2018	Grifeo Technologies
75.	Prashun Shukla	2018	Grifeo Technologies
76.	Rishikant	2018	Grifeo Technologies

B.E. Electronics Engg.

Sl. No.	**Name of Student**	**Year of Passing**	**Company Name**
1.	Aayush Choudhary	2018	Accenture
2.	Abhishek Singh	2018	Accenture
3.	Aditi Sharma	2018	Accenture
4.	Aishwarya Singh	2018	Accenture
5.	Akash Agrawal	2018	Accenture
6.	Amrisha Singh Bhadoria	2018	Accenture
7.	Ankit Singh	2018	Accenture
8.	Ashvini Kumar Sharma	2018	Accenture
9.	Asmita Mathur	2018	Accenture
10.	Ayushi Sharma	2018	Accenture
11.	Bhavna Singh	2018	Accenture
12.	Chandrika Gadgil	2018	Accenture
13.	Harshita Saxena	2018	Accenture
14.	Y Venkataratna Kalyani	2018	Accenture
15.	Karishma Singh	2018	Accenture
16.	Kriti Baranawal	2018	Accenture
17.	Pratibha Rabde	2018	Accenture

18.	Priyanka Banerjee	2018	Accenture
19.	Rakshit Tuteja	2018	Accenture
20.	Ritu Bhardwaj	2018	Accenture
21.	Shivam Sharan	2018	Accenture
22.	Shubham Jain	2018	Accenture
23.	Shubhangi Saxena	2018	Accenture
24.	Siddharth Gupta	2018	Accenture
25.	Subhash Vishwakarma	2018	Accenture
26.	Urja Dwivedi	2018	Accenture
27.	Yash Patel	2018	Accenture
28.	Yash Kumar Gupta	2018	Accenture
29.	Kopal Chaba	2018	IBM
30.	Yash Kumar Gupta	2018	IBM
31.	Abhishek Singh	2018	Capgemini
32.	Akash Goyal	2018	Capgemini
33.	Kriti Baranawal	2018	Capgemini
34.	Tanishk Khare	2018	Capgemini
35.	Yashasvi Patidar	2018	Capgemini
36.	Abhijeet Singh Jadon	2018	TradeIndia Research
37.	Abhinav Sahu	2018	TradeIndia Research
38.	Akash Arya	2018	TradeIndia Research
39.	Amit Kumar Khandekar	2018	TradeIndia Research
40.	Anamika Bhadouriya	2018	TradeIndia Research
41.	Aniruddh Agrawal	2018	TradeIndia Research
42.	Ankush Jain	2018	TradeIndia Research
43.	Atul Bansal	2018	TradeIndia Research
44.	Ayush Gupta	2018	TradeIndia Research
45.	Ayush Patel	2018	TradeIndia Research
46.	Bhanu Singh Rajpoot	2018	TradeIndia Research
47.	Brajendra Kumar Shrivas	2018	TradeIndia Research
48.	Deepanshu Kesharwani	2018	TradeIndia Research
49.	Diksha Parasram Golait	2018	TradeIndia Research
50.	Harshita Bansal	2018	TradeIndia Research
51.	Himanshu Gupta	2018	TradeIndia Research
52.	Manoj Kumar Ahirwar	2018	TradeIndia Research
53.	Mayank Moharir	2018	TradeIndia Research
54.	Mohammad Nazim	2018	TradeIndia Research
55.	Nitin Rathore	2018	TradeIndia Research
56.	Priya Sengar	2018	TradeIndia Research
57.	Puneet Khandelwal	2018	TradeIndia Research
58.	Radhika Awasthi	2018	TradeIndia Research
59.	Satish Ahuja	2018	TradeIndia Research
60.	Satyam Suryawanshi	2018	TradeIndia Research
61.	Shailendra Singh Tomar	2018	TradeIndia Research
62.	Shiva Shrivastava	2018	TradeIndia Research
63.	Shivangi Paharia	2018	TradeIndia Research
64.	Shobhit Verma	2018	TradeIndia Research
65.	Shubham Gupta	2018	TradeIndia Research
66.	Shubham Mohker	2018	TradeIndia Research
67.	Tanya Soni	2018	TradeIndia Research
68.	Titiksha Jadhav	2018	TradeIndia Research
69.	Utkarsh Badal	2018	TradeIndia Research
70.	Varun Agarwal	2018	TradeIndia Research
71.	Vicky Soni	2018	TradeIndia Research
72.	Bhavna Singh	2018	BYJU's

73.	Ritu Bhardwaj	2018	BYJU's
74.	Shivam Sharan	2018	BYJU's
75.	Abhinav Sahu	2018	Grifeo Technologies
76.	Akash Arya	2018	Grifeo Technologies
77.	Himanshu Gupta	2018	Grifeo Technologies
78.	Khushbu Patel	2018	Grifeo Technologies
79.	Mamta Singh	2018	Grifeo Technologies
80.	Nancy Bhatnagar	2018	Grifeo Technologies
81.	Nitin Rathore	2018	Grifeo Technologies
82.	Pooja Mangraiya	2018	Grifeo Technologies
83.	Shiva Shrivastava	2018	Grifeo Technologies
84.	Shivangi Gupta	2018	Grifeo Technologies
85.	Himanshu Gupta	2018	Samsung India
86.	Shobhit Verma	2018	Samsung India
87.	Utkarsh Badal	2018	Samsung India

B.E. CSE

Sl. No.	Name of Student	Year of Passing	Company Name
1.	Aayush Tyagi	2018	Accenture
2.	Abhishek Singh	2018	Accenture
3.	Aditya Manwani	2018	Accenture
4.	Akash Shakya	2018	Accenture
5.	Akash Patel	2018	Accenture
6.	Akash Dev Singh Baghel	2018	Accenture
7.	Aniraj Soni	2018	Accenture
8.	Ankisha Mathur	2018	Accenture
9.	Ankit Agnihotri	2018	Accenture
10.	Ankita Kinger	2018	Accenture
11.	Anshita Shrivastava	2018	Accenture
12.	Apoorva Shivhare	2018	Accenture
13.	Ayush Kumar Jain	2018	Accenture
14.	Ayushi Jain	2018	Accenture
15.	Charu Singh	2018	Accenture
16.	Deeksha Jadon	2018	Accenture
17.	Deeksha Sharma	2018	Accenture
18.	Falguni Patil	2018	Accenture
19.	Harshvardhan Shivhare	2018	Accenture
20.	Hrishika	2018	Accenture
21.	Kamlesh Marathe	2018	Accenture
22.	Karan Tripathi	2018	Accenture
23.	Karnika Shivhare	2018	Accenture
24.	Kartikay Pathak	2018	Accenture
25.	Mansi Saxena	2018	Accenture
26.	Neeraj Sonaniya	2018	Accenture
27.	Nikhil Kumar Singh	2018	Accenture
28.	Pankaj Dhakar	2018	Accenture
29.	Poorvi Kundwani	2018	Accenture
30.	Pranjal Gupta	2018	Accenture
31.	Rashi Agrawal	2018	Accenture
32.	Saawan Bohre	2018	Accenture
33.	Sakshi Vyas	2018	Accenture
34.	Samriddhi Sanadhya	2018	Accenture
35.	Saurabh Kumar Tripathi	2018	Accenture
36.	Sheetal Bhargava	2018	Accenture

37.	Shivam Singh Thakur	2018	Accenture
38.	Shivam Pathak	2018	Accenture
39.	Shreya Verma	2018	Accenture
40.	Shreya Sharma	2018	Accenture
41.	Shubha Pankaj	2018	Accenture
42.	Smriti Bajaj	2018	Accenture
43.	Trisha Datta	2018	Accenture
44.	Ujjwal Sahay	2018	Accenture
45.	Vikas Sharma	2018	Accenture
46.	Vikas Gupta	2018	Accenture
47.	Abhishek Singh	2018	IBM
48.	Akshita Kharbanda	2018	IBM
49.	Ankisha Mathur	2018	IBM
50.	Charu Singh	2018	IBM
51.	Karnika Shivhare	2018	IBM
52.	Manjul Mayank Tripathi	2018	IBM
53.	Nikhil Kumar Singh	2018	IBM
54.	Sandeep Mishra	2018	IBM
55.	Shivashish Thakur	2018	IBM
56.	Akash Dohare	2018	Capgemini
57.	Akash Patel	2018	Capgemini
58.	Alankrat Daga	2018	Capgemini
59.	Ankita Shrivastava	2018	Capgemini
60.	Ayushi Jain	2018	Capgemni
61.	Harshvardhan Shivhare	2018	Capgemini
62.	Shraddha	2018	Capgemini
63.	Smriti Bajaj	2018	Capgemini
64.	Vikas Gupta	2018	Capgemini
65.	Akash Dohare	2018	Wipro
66.	Karan Tripathi	2018	Wipro
67.	Saawan Bohre	2018	Wipro
68.	Aditya Ramteke	2018	TradeIndia Research
69.	Anam Khan	2018	TradeIndia Research
70.	Deepanshu Madnawat	2018	TradeIndia Research
71.	Jitendra Kumar Rai	2018	TradeIndia Research
72.	Kajal Puri	2018	TradeIndia Research
73.	Muskan Jain	2018	TradeIndia Research
74.	Pratim R Adhwaryu	2018	TradeIndia Research
75.	Raj Kumar Lodhi	2018	TradeIndia Research
76.	Ravi Kumar Singh	2018	TradeIndia Research
77.	Ritu Kannojiya	2018	TradeIndia Research
78.	Sarvagya Jain	2018	TradeIndia Research
79.	Shraddha Jain	2018	TradeIndia Research
80.	Shraddha Nand Shah	2018	TradeIndia Research
81.	Sushma Singh	2018	TradeIndia Research
82.	Utkarsh Vats	2018	TradeIndia Research
83.	Vijay Singh Tomar	2018	TradeIndia Research
84.	Arjita Marelay	2018	Metacube
85.	Kartikay Pathak	2018	BYTU's
86.	Yash Jain	2018	BYJU's
87.	Raj Kumar Lodhi	2018	Grifeo Technologies
88.	Ravi Kumar Singh	2018	Grifeo Technologies

B.E. I.T

Annexure X

Sl. No.	Name of Student	Year of Passing	Company Name
1.	Akshay Patel	2018	Accenture
2.	Anirudh Tiwari	2018	Accenture
3.	Aparna Rathore	2018	Accenture
4.	Deeksha Chouksey	2018	Accenture
5.	Harshit Saxena	2018	Accenture
6.	Ishita Piparsania	2018	Accenture
7.	Kanak Garg	2018	Accenture
8.	Mansi Gupta	2018	Accenture
9.	Meghna Gupta	2018	Accenture
10.	Nikita Rani	2018	Accenture
11.	Priyamvada Singh	2018	Accenture
12.	Rohan Gupta	2018	Accenture
13.	Shashank Chouksey	2018	Accenture
14.	Shipra Sahu	2018	Accenture
15.	Shivangi Agrawal	2018	Accenture
16.	Somya Soni	2018	Accenture
17.	Suraj Sajeev	2018	Accenture
18.	Surbhi Gupta	2018	Accenture
19.	Vipul Agrawal	2018	Accenture
20.	Virat Agrawal	2018	Accenture
21.	Yash Raj Mishra	2018	Accenture
22.	Harshit Saxena	2018	IBM
23.	Kishan Shankar Singhal	2018	IBM
24.	Surbhi Gupta	2018	IBM
25.	Renuka Chanderiya	2018	Capgemini
26.	Richa Agrawal	2018	Capgemini
27.	Sachin Sharma	2018	Capgemini
28.	Yash Karkhur	2018	Wipro
29.	Aditya Sharma	2018	TradeIndia Research
30.	Jaya Dhakar	2018	TradeIndia Research
31.	Krishna Kumar Lodhi	2018	TradeIndia Research
32.	Nitesh Kumar Dangi	2018	TradeIndia Research
33.	Nitya Shrivastava	2018	TradeIndia Research
34.	Piyush Mishra	2018	TradeIndia Research
35.	Prachi Shrivastava	2018	TradeIndia Research
36.	Pravesh Rawat	2018	TradeIndia Research
37.	Priyanka Dhakad	2018	TradeIndia Research
38.	Shiva Gupta	2018	TradeIndia Research
39.	Shivam Sharma	2018	TradeIndia Research
40.	Vivek Tiwari	2018	TradeIndia Research
41.	Himanshu Goyal	2018	Grifeo Technologies
42.	Jaya Dhakar	2018	Grifeo Technologies

B.E. Chemical Engg.

Sl. No.	Name of Student	Year of Passing	Company Name
1.	Amreen Ahmad	2018	Accenture
2.	Ananya Khare	2018	Accenture
3.	Apoorva Vishwanath	2018	Accenture
4.	Harshal Jat	2018	Accenture
5.	Hemang Mahajani	2018	Accenture
6.	Parth Bhakre	2018	Accenture
7.	Prakhar Purwar	2018	Accenture
8.	Pratik Singhal	2018	Accenture
9.	Priya Shrivastava	2018	Accenture

10.	Riya Goswami	2018	Accenture
11.	Rubal Jain	2018	Accenture
12.	Sarthak Bhatnagar	2018	Accenture
13.	Siddharth Shrivastav	2018	Accenture
14.	Apoorva Vishwanath	2018	BORL
15.	Rishabh Shrivastava	2018	BORL
16.	Vipul Mudgal	2018	BORL
17.	Kakul Joshi	2018	DCM Shriram
18.	Prakhar Purwar	2018	DCM Shriram
19.	Parth Bhakre	2018	Berger paints
20.	Hemang Mahajani	2018	TradeIndia Research
21.	Jitendra Kumar	2018	TradeIndia Research
22.	Kakul Joshi	2018	TradeIndia Research
23.	Rakshit Gupta Sihare	2018	TradeIndia Research
24.	Satyam Sharma	2018	TradeIndia Research
25.	Shubham Sharma	2018	TradeIndia Research
26.	Shweta Singh	2018	TradeIndia Research
27.	Anant Agrawal	2018	TradeIndia Research
28.	Dilip Bakoriya	2018	TradeIndia Research
29.	Riya Goswami	2018	Asahi India Glass Ltd.
30.	Hemang Mahajani	2018	Lupin Inida
31.	Parth Bhakre	2018	Lupin Inida
32.	Sarthak Bhatnagar	2018	Lupin Inida
33.	Siddharth Shrivastav	2018	Lupin Inida
34.	Anant Agrawal	2018	BYJU's
35.	Hemang Mahajani	2018	BYJU's
36.	Shubham Sharma	2018	BYJU's

B.E. Biotechnology

Sl. No.	Name of Student	Year of Passing	Company Name
1.	Ashutosh Singh	2018	Accenture
2.	Deeksha Tiwari	2018	Accenture
3.	Ritu Ahirwal	2018	Accenture
4.	Gauravi Agrawal	2018	TradeIndia Research
5.	Rahul Patidar	2018	TradeIndia Research
6.	Ripudaman Awasthi	2018	TradeIndia Research
7.	Ritu Ahirwal	2018	TradeIndia Research
8.	Satyam Agrawal	2018	TradeIndia Research
9.	Shivam Singh Sikarwar	2018	TradeIndia Research
10.	Shivendra Singh Bhadoria	2018	TradeIndia Research

MCA

Sl. No.	Name of Student	Year of Passing	Company Name
1.	Rakhi Jadoun	2018	Accenture
2.	Rohan Sharma	2018	Accenture
3.	Genius Kevre	2018	AITHENT
4.	Sumit agrawal	2018	AITHENT
5.	Nikita Agarwal	2018	TradeIndia Research
6.	Sanjana Sarawgi	2018	TradeIndia Research

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV Bhopal)

Details of Students Participation in Various Activities in and outside The Institute

S.No.	Name of Activity	Date	Activity detail in brief	Level of Activity	Achievements, if any
ASIMOV Robotics Club				**Faculty Coordinator: Dr. Karuna Markam**	
1	MODEL COMPETITION	12-11-17 - 13-11-17	60th foundation day	National	1st and 3rd position
2	ROBOQUIZ	27-01-18	Technical quiz	College	-
3	ROBOSYM	10-02-18	Water rocket competition	Inter-College	-
4	TECHFEST	14-02-18 - 18-02-18	Participation in TECHNEX, IIT BHU	National	-
5	TECHFEST	23-02-18 - 26-02-18	Participation in TRYST, IIT Delhi	National	4th position
6	TECHFEST	10-03-18 - 13-03-18	Participation in CRONOS, ITM Gwalior (ROBORACE)	National	3rd position
7	AAVIRITTI	17-03-18 - 18-03-18	Workshops organized 1.PCB designing 2.Web development 3.HURDLE MANIA-ROBOTICS Mania	Inter-College	-
Animation Club				**Faculty Coordinator: Amit K. Manjhvar**	
8	Poster Design	26/01/18	Group activity for poster presentation for republic day	College	Poster design was appreciated
ART CLUB				**Faculty Coordinator: Pooja Sahoo**	
9	Rangoli Making Art	12/11/17 - 14/11/17	Venue: - In Front of Main Hall (Garden Road) More than 50 students participated.	College	Winner - Siddhant Vishvakarma (B.Arch 3rd Year) Winning Prize- **2,500/-** and Certificate
10	Best Out Of Waste	27/01/18	10 students participated	College	Excellency Creative Certificate
11	Upcoming Technical Life	22/03/18	20 students participated	College	Certificate
12	Poster making	20/01/18	8 students participated	College	Certificate

Analytics Club					**Faculty Coordinator: Dr. D K Jain**
13	Face the Case	07/10/17 – 08/10/17	Competition consists of following three rounds: 1. Quiz (Pen & Paper Based) consists of following sections: • Data Science • Data Interpretation and Data Sufficiency • General Awareness • Statistics 2. Analyze It A case study was given to first round qualifiers. Participants applied business judgment to their proposal how it could make a difference to their market share. 3. Finals (Surprise)	College	Winners 1st Prize- Vivek Khandewal & Rajat Bhadoria (IIIrd yr CSE) 2nd Prize- Ojawsi Goyal & Saloni Jain (IIIrd yr IT) 3rd Prize- a. Anusha Jain (Ist yr EE) & Saket Rai (Ist yr Civil) b. Pratibha Singh (IIIrd yr CSE) & Samyak Jain (IIIrd yr AU)
Chemical Engineering Club					**Faculty Coordinator: Sumint S. Trivedia**
14	Expert Talk	03/02/18	Mr. Vijay Parmar, Deputy Manager, Teva API Malanpur delivered talk on **"Safety aspect of Process Industry"**	College	NIL
CLICK (CSE/IT Emerging Technology)					**Faculty Coordinator: Mahesh Parmar**
15	TECHTONIA	07/10/17	A technical quiz was held in three rounds 1st round technical quiz, 2nd round audio/visual and 3rd round PI. 102 students participated	College	Three students got first, second & third position.
16	CODE.01	10/02/18	Programming competition to test the ability. 107 students participated	College	-
17	GAMEVERSE	17/03/18	A gaming competition event. 91 students participated	College	Three students got first, second & third position.
CINEMATOGRAPHY CLUB					**Faculty Coordinator: Sharad Agrawal**
18	Foundation day celebration	12/11/17 - 14/11/17	Club students cover Industrial conclave and cultural night during Foundation Day Celebration	College	-

19	Short Film Making Competition	24/03/18	Social video like: Random act of kindness, Social network, A bug life, Environment were made by participating teams.	College	-
Career Counseling Club				**Faculty Coordinator: Swati Gupta**	
20	Expert Talk	01/11/17	On "Guidance for Competitive Exam after Engineering" By Mr. Mayank K.Thankur, MITS Alumni and Ritesh Goel Arya , Director Yantriki	College	
Digital Learning Group				**Faculty Coordinator: Punit Johri**	
21	Workshop on Web and Blog Development"	03/02/18	Introduced students to *Wordpress* tool and build their interest in website development and blog creation with hands on practices.	College	
22	Workshop on Digital Learning and Marketing"	24/02/18	Introduced students to: □ Digital Learning and Marketing Overview and concepts □ Requirement of digital Marketing □ Search engine and its marketing □ Social Media and marketing □ Case Study	College	
Dance Club				**Faculty Coordinator: Parul Saxena**	
23	Saraswati Vandana	12/11/17	On the occasion 60th Foundation Day, students of dance group presented saraswati vandana.		
HAM Radio				**Faculty Coordinator: Dr. Vandana Vikas Thakare**	
24	Guest Lecture	07/09/17	Introduction on HAM Radio (Amateur Radio) Speaker - Vice President of HAM Radio Society of India Mr. J.S. Bhide.	College	
25	Demonstration of Ham Radio	28/01/18	Demonstration of HAM radio including HF, VHF, satellite communication, etc. by HAM radio society of Gwalior under the	Inter-college	Certificates to all participants from Ham Radio Society of India and Institute of

			guidance of Mr. J.S. Bhide		Engineer.
26	National Summit on Digital Judiciary – jointly organized by IEEE, IETE, CSI, HAM Radio Club, IEI, Madhav Law College	15/04/18	Detailed discussions on digital judiciary –Building smart courts	Inter-college	Certificates to all participants
Higher Education Club - **Faculty Coordinator : Dr. Anshu Chaturvedi**					
27	Pan India Quiz Contest JQL-2017	06/10/17	Organized in collaboration with Jaipuria Institute of Management, Indore. 3 teams out of 25 teams cleared preliminary round at college level and qualified for Regional round at Indore.	. College	Winner team : received a cash prize Rs. 5000/- Vaibhav Jain, Mech. IV yr & Anmol Dubolia, Electrical, III yr
INTERNSHIP SUPPORT CLUB **Faculty Coordinator: Dr. Amit Aherwar**					
28	Workshop on ANSYS Workbench & Android App Development	27/01/18	Conducted in association with Emotech Software Solution Pvt Ltd. to familiarize students with the latest tools that are pre-requisite in academia and industrial sector nowadays. Workshops were open to students of different branches.	College	04 candidates won free training by Emotech Software Solutions Pvt. Ltd.
29	IBM-KVCH Internship Drive	20/04/18	Internship Drive for B.Tech. 2nd & 3rd yr students. Selected candidates will work on IBM Live Projects.	Inter Deptt.	Four students won free training offered by IBM-KVCH
Literary Club **Faculty Coordinator: Dr. Sanjeev Khanna**					
30	Oracle 3	Aug. 2017	Literary Event	Inter-collegiate	
31	MITSWAH	23/09/17 - 24/09/17	Multiple literary and allied events were organized.	Inter-collegiate	
MITS Journalism Society **Faculty Coordinator: Anish P. Jacob**					
32	Creation of Facebook Page	10/09/17	A page dedicated to the Society was created on Facebook for reporting and promotional activities.	National	
33	LIFE AT MITS	11/09/17 - 13/09/17	No. of students were interviewed on issues related to college, studies, campus & their lifestyle.	College	

			Video clips were taken & compiled in a single video titled "Life at MITS".		
34	Creation of Instagram Page	05/10/17	A page dedicated to the Society was created on Instagram for reporting and promotional activities.	National	
35	Recruitment	08/10/17	Recruitment under various heads life content writing, photography, video editing & reporting was done.	College	
36	Informal Interview Series	26/01/18	An exclusive interview of the Director, Dr. R.K. Pandit was taken. Questions related to Academic development, co – curricular activities & plans for development of college were asked.	College	
37	Stories Worth Sharing (SWS)	15/03/18	15 students shared their stories. The Director and even some of the faculty members also shared their stories.	College	
mitsCODE WAR				**Faculty Coordinator: R.R. Singh Makwana**	
38	Coding challenge 2017	13/10/17	Online programming contest specially designed for 1st & 2nd yr students.	Inter-collegiate	25 students were registered and 13 students participated in the contest.
Meditation and Art of Living Club				**Faculty Coordinator: Dr. Laxmi Shrivastava**	
39	Introductory lecture on meditation	08/09/17	Lecture delivered by Mr. Sanjeev Pradhan, Member of Heart fullness. He told about positive impact and scientific approach of meditation by using audio, video and ppt.	College	
40	Regular Classes of Meditation and Art of Living	Every Tues.& Wed. till 21/12/17 & every Mon. & Thurs. from 01/01/18	Regular practice of Meditation and Art of Living is being conducted by centre of Heart fullness to make stress free and relax everyone.	College	

MUSIC CLUB					**Faculty Coordinator: Dr. S. Bhattacharya**
41	Auditions	17/09/17	30 students were selected out of 75 who had exhibited their musical talent in vocal & instrumental activities.	College	Included as performers in the core music team.
42	Musical Presentation	26/01/18	Group Performances were given by Music Club Students on the occasion of Republic Day. The event comprised of Patriotic Songs.	College	Cash prize awarded to performers.
MITS AID					**Faculty Coordinator: Dr. Manish Sagar**
43	Swachchhaya Bharat Abhiyan Oath and International Youth Day	12/08/17	Oath ceremony on "Role of Youth to Build our Institute, Society and the Nation as per Our Goals and Dreams" Organized jointly by NSS unit and MITS-AID Club	College	224 students participated in this event
44	Workshop	17/09/17 - 30/09/17	Architecture 3rd Year Student went to Shanti Nagar, Beside JCB Mill for organizing the various social awareness program.	College	
45	Matdaata Diwas Oath	25/01/18	Organized jointly by NSS unit and MITS-AID Club	College	Approx. 500 faculty, staff and students take the oath.
October Sky (Rocket club)					**Faculty Coordinator: Dr. R. P. Narwaria**
46	Poster presentation	22/09/17	Knowledge sharing about rocket science. Experts interviewed about poster's composition & judged on the basis of scientific accuracy.	College	
47	Quiz competition on Rocket Science	20/01/18	Twenty four students participated. Best three students selected. Assessment done by objective type paper which contains 30 questions.	College	
Photography Club					**Faculty Coordinator: Deep Kishore Parsediya**
48	Framing MITS	13/09/17	Click the picture inside the MITS campus	College	1st - Aman Sharma 2nd -Ayush Garg 3rd - Nayan Sarkar

49	Photo Editing Competition	12/01/18	A picture was given to the participants. They have to submit same picture with additional effective editing.	College	1st - Shreya Saxena 2nd -Suraj K. Singh 3rd - Shailesh Mishra
50	Framing MITS- II	03/02/18	Click the picture inside the MITS campus	College	1st - Rochak Shivhare IT (2nd year) 2nd - Ashish Godiya Electronics (2nd year) 3rd - Yashwardhan Tomar E&TC (3rd year)
51	Workshop on Perfect Photography	27/04/18	Steps for perfect photography were discussed in the workshop.	College	All club members and other students were benefited.
Society of Personality Development Club				**Faculty Coordinator : Dr. Sanjiv Sharma**	
52	Just A Minute	26/09/17	Describe your personality with one minute		Motivate students for personality improvement
53	Experience Sharing	17/01/18	Group Discussion		Team work
Terrestrial Automobile Development Club				**Faculty Coordinator: Vedansh Chaturvedi**	
54	Workshop on Automotive Design Process & 3D Modeling in Autodesk MAYA	21/02/18	Activity covered following topics: a. Automotive Visual Design Language b. Car Designing Process c. Basics of Car Sketching d. Basic tools of MAYA software e. Basics of 3D Modeling f. Car's logo's and their history	College	More than 50 participants attended.
Webbers Club				**Faculty Coordinator: Abhilash Sonker**	
55	DEVCONF 2017	9/10/17	A Practical Guide to Web and Mobile App Development for the Absolute Beginners	College	
Yoga Club				**Faculty Coordinator: Vishal Chaudhary**	
56	Expert lecture on YOGA	29/10/17	By Yoga expert from LNIPE Gwalior. Approx. 40 students & some faculty members attended.	College	Learn benefits from YOGA.
57	YOGA WORKSHOP	30/01/18	YOGA activities instructed by professional yoga expert	College	Great experience & understood

			Mr. Tejhbaan Daultani. Approx. 15 students & some faculty/staff members attended.		need of yoga through philosophy & daily practice.
Sports Club					**Coordinator: Dr.B.P.S. Bhadoria**
58	Cricket Tournament	19/09/17 – 09/10/17	40 teams participated	College	
59	Football Tournament	06/10/17 – 08/10/17	16 teams participated	College	
60	Badminton Tournament	06/10/17 – 08/10/17	Number of participants (Singles – 40 and double Twenty-20)	College	
61	3A Side Basketball Tournament	23/01/18 - 24/01/18	15 teams participated	College	
62	Cricket Tournament	28/01/18 - 05/02/18	30 teams participated	College	
Achievements in Sports					
63	Volleyball	20/09/17 - 22/09/17	Volleyball Tournament at VITM Gwalior	Inter-collegiate	Winner
64	Badminton	Nov. 2017	Badminton Tournament (Men's & Women's) at IPS Gwalior	Inter-collegiate	Winner (both)
65	Football	30/11/17 – 01/12/17	Football Tournament at SRCEM Banmore	Inter-collegiate	Winner
66	Chess	09/10/17 - 10/10/17	Chess Tournament at NITM Gwalior	Inter-collegiate	Winner
67	Table tennis	27/12/2017	Table Tennis Tournament at NRICEM Gwalior	Inter-collegiate	Winner
68	Basketball	26/09/17 - 27/09/17	Basketball tournament at MITS Gwalior (Men's & Women's)	Nodal level	Winner (both)
69	Cross Country	08/09/2017	Cross Country race at RJIT Tekanpur	Inter-collegiate	Runners up
70	Basketball	06/10/17 - 07/10/17	Basketball Tournament at MITS Gwalior (Men's)	RGPV State level	Runners up
IETE Student Chapter					**Faculty Coordinator: Dr.Vandana Vikas Thakare**
71	Robotics Workshop	19/8/17	Workshop was held by Traineer of Gyanshala aimed at enhaching the auduino platform	Inter-college	1st prize: Aditi Goswami & Abhishek Gupta 2nd Prize: Antara Sinha & Nisha Rai
72	TECHNOQUIZ	27/1/18	Students solved the Electronics based technoquiz	College	Ist prize : Saurabh patel Electrical 2nd yr
73	Artistry Chase	03/2/18	A cultural fest to hunt different artistic talents in students	Inter-college	Winner: Saksham Tamrakar Runner: Ashkrit Kushwaha Best Story Utkarsh Garg

					Best Dancer Nitya Shukla Best Rapper Ashwin Best Poetry Mansi Pathak Best Singer Vallari Chitins
74	Workshop on LT Spice, Every CIRCUIT AND MATLAB	14/03/18 – 16/03/18	To develop soft skills in the area of circuit design and simulation	College	Certificates given to all participants
Charity Club and IEEE Student Chapter				**Faculty Coordinator: Dr. Manish Dixit**	
75	The Insight of Corporate Requirement	11/08/17	An expert and alumni Mr Ashish Khare interacted with students to guide them with corporate culture and technical skills	Intra College	About 100 students of CSE & IT participated
76	International Youth Day Celebration	12/08/17	IEEE Students chapter Celebrated in institute jointly with NSS to teach the moral values and ethics to students	Intra College	About 250 students participated
77	IEEE Technical Quiz	14/08/17	Technical quiz for CSE and IT students organised by IEEE Student chapter MITS	Intra College	About 150 students from CSE & IT participated
78	Toppers Talk	11/09/17	Motivational lectures for IES aspirants	Intra College	About 200 participants from institutes enlightened by experts
79	Expert Talk	02/11/17	Organised by IEEE Student chapter MITS Dr Rajkumar Buyya, Director, Cloud Computing and Distributed Systems (CLOUDS) Laboratory, University of Melbourne, Australia delivered the talk.	Intra College	More than 100 research scholar and UG students participated
80	Book Harvesting Campaign	10/03/18	Specimen copies of text books are collected from teachers by students to help poor students	Intra College	In first phase around 150 books are collected. The campaign will continue to enhance collection.
ISTE Students' Chapter MITS				**Faculty Coordinator: Vishal Chaudhary**	
81	Tech Celesta	08/09/17 –	Organised various events	State	Over 1500

		17/09/17	under Tech Celesta, namely: XCalibre, Night with Stars, Workshops on: MATLAB, AutoCAD, Home Automation, Vision Biotics		students attended this mega-technical conclave making it a success.
82	Food Fiesta 2.0	13/11/17	Invited all the delicacies of Gwalior to present their specialities.	State	On the occasion of 60th Founder's Day, organised the 2nd version of Food Fiesta grabbing the attention of more than 3k food lovers.
83	ChimeraX	27/01/18	Organised the zonal round of Central India's Largest Quiz Fest, ChimeraX; under the flagship of ISTE MANIT Bhopal.	Inter-collegiate	The event captured the presence of nearly 300 participants, marking yet another milestone in the history of ISTE Students' Chapter MITS.
84	Expert Talk	08/02/18	In concern for the development of the Studying Skills of students, an Expert Talk by Mr. Safal Sharma (Motivational Speaker, Youth Mentor and Studying Skills Expert) on 'How to Study Effectively?'	National	Mr. Sharma introduced difference between learning and knowledge. He also included many tricks to improve the efficiency of learning.
85	AAROHAN2k18	24/03/18	"How to write a research paper?" A Research paper presentation based event mainly focusing on the innovative ideas presented by youth for nourishment of technical aspect of the institute and society.	Inter-collegiate	Student's presentation judged by Dr. C.S. Malvi.
MITS ACM STUDENT CHAPTER				**Faculty Coordinator:**	**Neha Bhardwaj**
86	Innuvazione	23/09/17 – 24/09/17	System for 3D Gaming was designed.	Department	CSE-III Year students participated.

IET Student Chapter			**Faculty Coordinator:**	**Dr. Vijay Bhuria**	
S.No.	Name of Activity	Date	Activity details in brief	Level of activity	Achievement, if any

87	The Present Around The World	06-07- 2017	Idea presentation competition	University Level	09 students participated
88	REGIONAL FEST-2017	23-09-2017	Volley Ball, Quiz, Talent Hunt, Poster designing Dumb Charades, Photography Snake & Ladder, Dubs mash Tempo line	State level	Successfully Organized
89	Workshop on Artificial Intelligence & Student Sabha	17-03-2018	Delivered by Ashu Sinha Co-Founder & Managing Director, RobonomicsAI	Institute level	80 students participated
Technical Exhibition Club				**Faculty Coordinator:**	**Dr. Vijay Bhuria**
90	Poster Presentation (Founder's Day)	12-14 Nov 2017	Poster Theme- Innovations in Engineering	Institute level	52 students participated

Annexure XII

MADHAV INSTITUTE OF TECHNOLOLOGY & SCIENCE

Admission Branch Wise in UG year 2017-18

S.No.	Intake	Branch	No. of Students																Total
			General		TFW		AIUR		GOI		Other State (PMSSS)		SC		ST		OBC		
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
1	120	Civil Engineering	48	14	4	-	5	-	-	-	-	-	16	5	13	3	13	3	**124**
2	120	Mechanical Engineering	54	6	6	-	4	-	-	-	-	-	23	3	10	-	16	3	**125**
3	30	Biotechnology	14	3	-	-	-	-	-	-	-	-	1	-	-	-	3	-	**21**
4	60	Information Technology	21	8	3	-	3	-	-	-	-	-	12	1	-	-	13	2	**63**
5	60	Automobile Engineering	42	3	3	-	2	-	-	-	-	-	2	-	1	-	10	-	**63**
6	60	Chemical Engineering	27	6	3	-	1	1	-	-	-	-	4	-	-	-	15	2	**59**
7	120	Electrical Engineering	47	16	5	-	2	-	1	-	1	-	23	1	9	2	15	3	**125**
8	120	Computer Science & Engineering	45	15	6	-	4	1	-	-	-	-	25	5	9	-	11	5	**126**
9	40	Architecture	22	2	-	-	-	1	1	-	-	-	1	-	-	-	12	2	**41**
10	120	Electronics Engineering	62	16	4	-	5	1	-	-	-	-	17	4	-	1	10	4	**124**
11	60	Electronics & Telecommunication Engineering	29	8	-	-	2	1	-	-	-		7	-	-	-	14	1	**62**
	910	**Total**	**411**	**97**	**34**	**-**	**28**	**5**	**2**	**-**	**1**	**-**	**131**	**19**	**42**	**6**	**132**	**25**	**933**

Annexure XII

MADHAV INSTITUTE OF TECHNOLOLOGY & SCIENCE

Admission Branch Wise in LT year 2017-18

S.No.	Intake	Lateral Entry Branch	No. of Students																Total
			General		TFW		AIUR		GOI		Other State (PMSSS)		SC		ST		OBC		
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
1		Civil Engineering	8	4	-	-	1	-	-	-	-	-	3	-	3	-	4	1	**24**
2		Mechanical Engineering	11	2	-	-	-	-	-	-	-	-	4	-	2	-	5	-	**24**
3		Information Technology	2	4	-	-	-	-	-	-	-	-	1	2	-	-	2	1	**12**
4		Automobile Engineering	10				1	-	-	-	-	-	-	-	-	-	2	-	**13**
5		Chemical Engineering	2	1	-	-	-	-	-	-	-	-	-	-	1	-	1	-	**5**
6		Electrical Engineering	8	4	-	-	-	-	-	-	-	-	3	1	2	1	4	1	**24**
7		Computer Science & Engineering	6	7	-	-	-	-	-	-	-	-	3	4	-	-	2	2	**24**
8		Electronics Engineering	4	3	-	-	-	-	-	-	-	-	3	1	-	-	4	1	**16**
9		MCA	6	4	-	-	-	-	-	-	-	-	1	1	-	-	5	1	**18**
	Total		**57**	**29**	-	-	**2**	-	-	-	-	-	**18**	**9**	**8**	**1**	**29**	**7**	**160**

Annexure XII

Admission Branch Wise in PG year 2017-18

S.No.	Intake	PG Branch	No. of Students																Total
			General		TFW		AIUR		GOI		Other State (PMSSS)		SC		ST		OBC		
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
1	25	M.E. Communication Control & Networking	4	12	-	-	-	-	-	-	-	-	-	-	-	-	1	2	**19**
2	25	M.E. Construction Tech. Mgmt	17	2	-	-	-	-	-	-	-	-	3	-	1	-	2	-	**25**
3	5	M.E. Construction Tech. Mgmt (PT)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5**
4	25	M.E. Industrial Systems Drives	4	3	-	-	-	-	-	-	-	-	1	-	1	-	1	-	**10**
5	7	M.E. Structural Engineering	1	3	-	-	-	-	-	-	-	-	-	1	-	-	2	-	**7**
6	18	M.Tech. Microwave Engineering	1	5	-	-	1	-	-	-	-	-	1		-	-	-	-	**8**
7	18	M.Tech. Production Engineering	6	2	-	-	-	-	-	-	-	-	3	1	-	-	-	-	**12**
8	18	M.Tech. Computer Science & Technology	4	10	-	-	-	-	-	-	-	-	1		-	-	1	2	**18**
9		MCA	6	4	-	-	-	-	-	-	-	-	1	1	-	-	5	1	**18**
	Total		**57**	**29**	-	-	**2**	-	-	-	-	-	**18**	**9**	**8**	**1**	**29**	**7**	**160**

Annexure XII

U.G. Admission Year 2017-18 (State & Category Wise)

S.No.	Branch U.G	No. of Students								Total	No. of Students								Total	Grand Total
		M.P. State									Other States									
		General		SC		ST		OBC			General		SC		ST		OBC			
		M	F	M	F	M	F	M	F		M	F	M	F	M	F	M	F		
1.	**Civil**	60	18	19	05	16	03	18	03	142	06	-	-	-	-	-	-	-	06	148
2	**Mechanical**	71	08	27	03	12	-	21	03	145	04	-	-	-	-	-	-	-	04	149
3	**Biotech**	14	03	01	-	-	-	03	-	21	-	-	-	-	-	-	-	-	-	21
4	**I.T**	26	12	13	03	-	-	15	03	72	03	-	-	-	-	-	-	-	03	75
5	**Automobile**	55	03	02	-	01	-	12	-	73	03	-	-	-	-	-	-	-	03	76
6	**Chemical**	32	07	04	-	01	-	16	02	62	01	01	-	-	-	-	-	-	02	64
7	**Electrical**	60	20	26	02	11	03	18	05	145	04	-	-	-	-	-	-	-	04	149
8	**C.S.E**	57	22	28	09	09	-	12	08	145	04	01	-	-	-	-	-	-	05	150
9	**Architecture**	22	02	01	-	-	-	12	02	39	01	01	-	-	-	-	-	-	02	41
10	**Electronics**	70	19	20	05	-	01	14	05	134	05	01	-	-	-	-	-	-	06	140
11	**E.T**	29	08	07	-	-	-	14	01	59	02	01	-	-	-	-	-	-	03	62
	Total	**496**	**122**	**148**	**27**	**50**	**07**	**155**	**32**	**1037**	**33**	**05**	**-**	**-**	**-**	**-**	**-**	**-**	**38**	**1075**

Annexure XII

P.G. Admission Year 2017-18 (Category Wise)

S.No.	Branch P.G.	General		SC		ST		OBC		Total	General		SC		ST		OBC		Total	Grand Total
		M	F	M	F	M	F	M	F		M	F	M	F	M	F	M	F		
1	(Civil) P.H.E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	(EE) Meas. & Control	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	(Civil) Structural	3	1	-	1	-	-	2	-	7	-	-	-	-	-	-	-	-	-	7
4	(Mechanical) Material Handing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Mechanical) Production	6	2	3	1	-	-	-	-	12	-	-	-	-	-	-	-	-	-	12
6	I.T.	7	5	2	1	-	-	1	1	17	-	-	-	-	-	-	-	-	-	17
7	Chemical	1	-	-	1	-	-	1	2	5	-	-	-	-	-	-	-	-	-	5
8	(Civil) C.T.M.	22	2	3	-	-	-	2	-	29	-	-	-	-	-	-	-	-	-	29
9	(Electrical) I.S.D.	4	3	1	-	1	-	1	-	10	-	-	-	-	-	-	-	-	-	10
10	(Electronics) Microwave	1	5	1	-	-	-	-	-	7	1	-	-	-	-	-	-	-	1	8
11	C.S.E.	4	10	1	-	-	-	1	2	18	-	-	-	-	-	-	-	-	-	18
12	(CSE) Cyber Security	4	3	-	2	-	-	-	-	9	-	-	-	-	-	-	-	-	-	9
13	(Electronics) C.C.N.	4	12	-	-	-	-	1	2	19	-	-	-	-	-	-	-	-	-	19
14	Biotechnology	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	(Civil) Environment	11	-	-	1	-	-	5	1	18	-	-	-	-	-	-	-	-	-	18
16	Geo Informatics	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
17	Urban Management(M. Arch)	6	7	1	-	-	-	3	1	18	-	-	-	-	-	-	-	-	-	18
18	M.C.A	19	9	-	-	-	-	7	-	35	3	1	-	-	-	-	-	-	4	39
19	M.C.A LT.	6	4	1	1	-	-	5	1	18	-	-	-	-	-	-	-	-	-	18
	Total	**98**	**63**	**13**	**8**	**1**		**29**	**10**	**222**	**4**	**1**							**5**	**227**

P.G. Admission Year 2017-18 (Total MCA with LT Students)

S.No.	Branch P.G	SC		ST		Other/OBC/UR		Other/OBC/UR /Total	Total
1.	M.C.A / LT. MCA	01	01	-	-	40	15	55	57

P.G. Admission Year 2017-18 (Civil M.E. CTM (Part Time))

S.No.	Branch P.G	SC		ST		Other/OBC/UR		Other/OBC/UR /Total	Total
1	(Civil) C.T.M PT	-	-	-	-	05	-	05	05

BEST PRACTICE -1

1. **Title: On-line Student Feedback Collection and Analysis Using Faculty Feedback Index**

2. **Objectives of the practice**: Though the academic system is making a transition from teacher-centric to learner-centric environment, the class room interaction with the teacher is still one of the most important factors in shaping the student careers. To become a successful engineer, a student requires core knowledge, skills & aptitude and attitude plus ethical values. Good teachers naturally inculcate these three attributes in their students and thus play a key role in creating a strong base for their future development and growth. Some teachers are gifted with good teaching abilities while some do not possess these qualities, inherently. .

   The idea behind developing the faculty feedback model was to appreciate the faculty members for their plus points and to inspire them to improve their performance in areas where there is need and scope for improvement, for increasing the efficiency and effectiveness of the teaching-learning process.

3. **The Context**: Before this practice was started in July 2017, feedback was collected on paper forms. Though it was optional to mention the name, students used to be apprehensive that somehow the teachers will find out about their responses; as a teacher would always be present in the class during this process. Also, their attention was diverted due to the presence of other students in the class. As a result, they were hesitant in expressing their true observations and experiences. The students were not taking interest in this activity; rather they were giving arbitrary responses in feedback which were not able to present the true picture. The data was handled manually by the class coordinators so analysis was also tedious, unreliable and non-conclusive.

   Therefore, the feedback collection process at the institute had become a ritual rather than a practice. There was a lot of wastage of paper too. Hence, an on-line mechanism was established to give an unbiased feedback in numeric values to improve the teaching-learning practices.

4. **The Practice:**

- In each semester, based on 14 parameters two mid-term on-line feedbacks are collected. The parameters are listed in Table I below.
- All 14-attributes are rated by the students on a scale of 1 to 5, where 1 point is for ‘below average’ rating, 2 points for ‘average’ , 3 for ‘Good’, 4 for ‘Very Good’ and 5 points for ‘Excellent’.

- Students fill a separate form for each course/faculty on-line. Additional space is provided for general comments.
- Faculty coordinators for feedback collection, send the link for the on-line form, to all the students who meet the attendance and regularity criteria.
- The form is created in GOOGLE docs, it cannot be modified or tampered and is anonymous; the student identity is not disclosed, and the master data of student responses is not provided to faculty. The data is loaded on MS Excel for further analysis.
- Based on the number of student responses, the Faculty Feedback Index (FFI) is calculated for each attribute using the following relation:

$$FFI = [(A \times 5) + (B \times 4) + (C \times 3) + (D \times 2) + (E \times 1)]/(A + B + C + D + E)$$

[*Where A: Number of students who have rated the performance attribute as excellent; B: Number of students who have rated the performance as very good; C: Number of students who have rated the teacher performance for the concerned attribute as Good; D: Number of students who have rated*]

- A sample of computation of FFI is shown in Table I below. The FFI reflects the faculty performance for each attribute on a scale of 5. Based on the FFI values, attributes of appreciation/needing improvement are identified based on the pointers (using the conditional formatting option in MS Excel) as shown in the Table.
- The feedback analysis and report is shown to the concerned faculty member by the Head of the Department. If average index is less than 2.5 it is considered serious and the HoD asks the faculty to improve and strictly monitors performance in future.
- The final consolidated report for all faculty members is sent to the Director for information.
- This practice is purely for the purpose of quality improvement (not for punitive purposes). This is clearly mentioned on the feedback form and also communicated to all concerned.
- The performance of faculty members is being compared with their own mean performance, and not with other faculty members. Each teacher possesses unique attributes and it would not be fare to demoralize anybody by comparing them with others. But at the same time, this system motivates them to improve themselves in their weak areas.
- Another important feature in this model is that even if the FFI is the lowest for a faculty, some of his/her qualities still receive appreciation and hence encouragement for further improvement.

5. **Evidence of Success**: The following improvements have been noticed since the on-line feedback practice has been started:
    a. The students are able to access the feedback form during the allotted time from anywhere, their homes, library or even mobiles etc. They are thus not disturbed/influenced by their surroundings and are able to give sincere feedback.

b. The on-line feedback is easily analysed using computers. Manual intervention is very limited. It is more informative; graphs/charts can also be generated very easily to convey more meaning.

Table I

ANALYSIS OF FEEDBACK OF COURSE FACULTY FROM STUDENTS (A sample)

Faculty:..... Class..... Departmenty..... Course Title/code .....Session: .....Feedback: I/II

	Number of Student Responses in 5 Categories (Sample Size: 77)						
Attributes	**Excellent (A)**	**V Good (B)**	**Good (C)**	**Average (D)**	**Below Average (E)**	**Faculty Feedback Index (FFI)**	**Pointer**
Points	**(5 points)**	**(4 points)**	**(3 points)**	**(2 points)**	**(1 point)**	**Out of 5**	
Has good teaching ability	**18**	**24**	**25**	**7**	**3**	**3.611**	⬇
Teaching style interactive/involving students	**20**	**20**	**28**	**6**	**3**	**3.623**	➡
Adequate coverage of course content	**19**	**20**	**28**	**7**	**3**	**3.584**	⬇
Voice is audible	**24**	**23**	**20**	**7**	**3**	**3.753**	⬆
Good communication skills	**23**	**19**	**26**	**6**	**3**	**3.688**	➡
Has ability to control class	**21**	**23**	**23**	**7**	**3**	**3.675**	➡
Has ability to motivate/create interest in subject	**20**	**20**	**25**	**8**	**4**	**3.571**	⬇
Relates subject with practical examples	**17**	**25**	**22**	**10**	**3**	**3.558**	⬇
Is approachable & helping	**25**	**16**	**27**	**6**	**3**	**3.701**	⬆
Provides study material/notes etc	**21**	**21**	**24**	**8**	**3**	**3.636**	➡
Inspires students for good behavior and ethical conduct	**23**	**19**	**26**	**6**	**3**	**3.688**	➡
Use of innovative teaching methods	**21**	**20**	**27**	**6**	**3**	**3.649**	➡
Shows no gender bias	**23**	**20**	**24**	**7**	**3**	**3.688**	➡
Course well designed and structured	**24**	**16**	**26**	**6**	**3**	**3.693**	⬆
Average						**3.651**	
FFI =(5 x A)+(4 xB)+(3xC)+(2xD)+(1xE)/(A+B+C+D+E)							

Action Taken Report

Points of appreciation: Here all the attributes which are rated good in comparison to the average and shown by the 'up arrow' (by the conditional formatting option of MS Excel) are mentioned.

Points needing improvement: Here all the attributes which are rated poor in comparison to the average and shown by the 'down arrow' (by the conditional formatting option of MS Excel) are mentioned.

(Faculty) HoD Director

c. The on-line feedback system is more authentic, is found to match with the general perception about the teacher. No manipulation is possible and lesser time is required for analysis.

d. The areas of appreciation/concern are being identified very easily by the on-line system.

e. The faculty members have become very serious about their classes and are trying to give their best.The practice has generated a healthy completion among the faculty members. They are quite excited to see their performance ratings in numeric values.
f. It has helped the administration immensely too as timely corrective measures, (warning/ monitoring/observing) are taken if the performance indicator for an attribute is found to be lower than 2.5 for a faculty member.
g. The student community is the happiest with this practice as it gives them a power to express their feelings and opinion, anonymously and fearlessly, in their own time and place, with privacy and sincerity.
h. The students get a sense of importance which also reflects in their attitude in class; they have become more sincere and observant.

6. Problems Encountered and Resources Required:

a. The practice does not require any additional infrastructure as the institute already has good wi-fi, internet facility and computational facilities.
b. Presently, the feedback form has been generated in Google docs/Forms but institute also has its own functional MOODLE which is used for other on-line feedbacks.
c. Initially, the teachers were a bit apprehensive and reluctant but once they were ensured that this activity is not for punitive purposes, they cooperated in disseminating information about this practice.
d. An orientation programme was conducted to apprise students about the importance of an honest feedback in quality improvement of the teaching-learning process.
e. In the new feedback mechanism, the performance of faculty members is being compared with their own mean performance (feedback index), to identify the strong and weak areas in their course delivery.

Contact Person

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BEST PRACTICE-2

1. Title: Self-Learning Model Developed Using SWAYAM/NPTEL platform

2. Objectives of the practice:

Self learning is one of the most important qualities that a student needs to have for a successful career, particularly in the present fast changing technological world. To inculcate self learning capabilities in students and to make them familiar with the mechanism of on-line courses, the institute developed an innovative model to improve the teaching-learning of the student centric courses available in the curriculum such as self study, seminar, group discussion etc. The objective was to develop confidence in the students, encourage interactive group learning, generate team spirit, improve communication and presentation skills and at the same time equip them with latest knowledge available in the discipline.

3. The Context:

Since the last few years, there is a complete paradigm shift in education, from the traditional teacher centric system to learner centric one. The ownership of education is with students now and the role of teacher has become that of a facilitator. Mentorship and interaction with students are now more important than the actual content delivery. The focus is on what is '*learnt*' rather than on what is '*taught*'. In this environment, it was vital that a more active role be assigned to the students to make them independent and active learners. The All India Council of Technical Education (AICTE) had already made it a mandate and approved credit transfer through Massive Open Online Courses (MOOCs). However, the affiliating technical university of the institute had yet to come out with a policy. Therefore, our institute developed its own guidelines for running the on-line courses through SWAYAM/NPTEL for the self study courses which are internally evaluated. The idea was to induct our students into the on-line learning courses at the earliest, so that they can derive the benefits as early as possible.

4. The Practice:

- In September 2017, the Academic Council of the institute, decided to introduce self-learning culture, for preparing and strengthening students to survive in the technologically advancing world and to meet future challenges successfully.
- It was decided that from the academic session beginning January, 2018 the SWAYAM/NPTEL courses should be compulsory for II & III year students.

- The idea was to prepare our students for MOOCs in advance so that by the time the modalities of the credit transfer (from MOOCs) policy are decided and implemented, our students are ready to take the best advantage of these courses for acquiring credits from on-line courses of their choice.
- It was decided that till the guidelines for credit transfer through MOOCs are issues, the SWAYAM/NPTEL courses will be run against the self learning courses which are internally evaluated.
- Local Chapter of NPTEL was started in October 2017 in association with IIT BOMBAY for promoting e-learning through on line Web and Video courses.
- For the effective conduction of these courses the institute appointed SWAYAM coordinators from each department and to monitor at institute level, the single point of contact (SPOC) was appointed as SWAYAM manager.
- After discussion with students and faculty members, the above team (called as the SWAYAM team) identified and finalized suitable courses, from the list available at NPTEL portal for the January-June 2018 session.
- The SWAYAM team motivated and registered students and faculty for the selected NPTEL courses; then suitable faculty members were appointed as subject matter experts (SMEs) for conducting these courses.
- **A total of 2019 students and 60 faculty members (SMEs) were registered for 25 courses in 11 departments, during January-June 2018 session.**
- Each section was divided into 10-12 study groups for the session. Every week, one group was assigned the task to give a presentation on 'what was delivered during the week in their on-line course'.
- The rest of the students asked questions during these interactive sessions, in the presence of the concerned SME. Sometimes recorded portions of the NPTEL lectures were also shown in the class for discussion and clarification.
- Assignments were also dealt with in this same manner. The SME, who was also registered for the same course, helped the students whenever they were stuck somewhere.
- Two credits each were allotted to these self study courses. Attendance was compulsory and students were asked to come prepared in the class for interacting with the presenting group.

- **The following evaluation guidelines were made**:
  - Continuous evaluation by the SME(s) of the course through (Seminar/Presentation/Discussions) weekly (Example: if there are 12 working weeks then 12 student groups were formed for evaluation through presentation) (Weightage: 40%)
  - Evaluation through one Midterm Exam (Weightage: 20%)
  - One Quiz through Institute MOODLE (Weightage: 20%)
  - Monitoring and record of attendance (Weightage: 20%)

5. Evidence of Success

- The initiative proved very successful. Most of the students developed an instant interest in this model of learning. They were also excited that they were being taught by renowned professors of IITs & NITs. They enjoyed the free learning experience and reversal of role, presenting the course to the class on their turn while the teacher (SME) was sitting and listening. The class was fun and students learned in a light and relaxed atmosphere.
- The mid-term and final evaluation (internal) for the courses was done by the SMEs according to the above guidelines. Though there was no compulsion, many students also opted and registered for the paid on-line examination conducted by NPTEL as they wanted to know their position at the all India level.
- Total 25 courses were run by 11 different departments. Performance Summary is given below for Academic year 2017-18.
- On the basis of these results **The MITS Chapter ranked among top 100 NPTEL local Chapters of the country (87th in 1242 active NPTEL Local Chapters).**
- A total of 03 faculty SMEs were awarded as the top mentors for NPTEL Online Courses as their students ranked among the top 1% of students.
- A total of 08 faculty SMEs were awarded as the best mentors for NPTEL Online Courses as 100% of their students passed the examination.

Total number of students enrolled/registered in MITS	2019
Total number of faculty/SME's registered for NPTEL courses	60
Number of students who filled NPTEL exam registration form	138
Number of students appeared in Exam	130
No of students qualified	119 (92%)
Students who qualified as Elite + Gold Medal (score of 90% and above)	03
Students who qualified as Elite (score between 60% -89%)	80
Students who successfully completed the course (score between 40% -59%)	36

6. Problems Encountered and Resources Required:150

- As was expected, there was some resistance from faculty as well as students for registering in NPTEL courses. Some students felt that an additional burden was being put on them.
- Finalizing the list of courses to be run also required a lot of effort as the expertise available at the institute was to be mapped with the available courses on the portal first and then with diverse student interests.
- Another problem was that the students and faculty were tuned to the traditional model of teaching-learning where students are passive listeners most of the time. Therefore, students were reluctant at first to study from the NPTEL lectures on their own and then deliver/present it in class. Later, however they were quite happy with the 'learn at your own place, at your own time, at your own pace' model of NPTEL. Faculty SMEs also realized the importance of the interactive model as they too got to learn many things from the students during the class.
- Motivating the students to register for the final on-line test where there was a Rs. 1000 fee was difficult as our institute is a government aided institute having students from all sections of the society, admitted according to the state government norms; some of them were not in a position to pay the additional (Other than Institute fees) fee for appearing in the on-line examination. This acted as a deterrent for appearing in examination. When this was realized, the institute declared that the registration fee will be reimbursed to the students who successfully pass the on-line test.

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