



Compliance/Action Taken Report On Decisions Of Iqac On JUNE 30th 2020

In Compliance to the decisions taken by IQAC in the meeting on 30th June 2020, following actions have been taken:

1. Performance benchmarks under TEQIP-III to be achieved in incremental manner up to June 2020 and September 2020.

- The Academic Coordinator of TEQIP-III has informed the house that, based on the inputs of MHRD and World Bank, the performance benchmarks of TEQIP-III have been revised considering special emphasis on MHRD/NPIU digital initiatives and remedial component. **These benchmarks are required to be achieved in incremental manner upto June 2020 and September 2020.** The benchmarks to be achieved upto June 2020 and September 2020 and present status of each benchmark is annexed as Annex-I.
- Institutions that achieved the target for June 2020 and September 2020 will be identified as well performing or otherwise. Incentivization of well performing institutions may be decided by MHRD in the forthcoming JRM based on availability of funds.

Annexure-I: Performance Benchmarks (Targets June 30 and Sept 30, 2020)

S. No.	Category	Criteria	Target June 30, 2020	Target September 30, 2020	Present Status (as on 13.06.2020)
1	Financial	Actual Expenditure in academic activities out of PLA(academic head of expenditure)	75%	85%	75.38%
2	DLIs Status (till June 2020)	1. NBA Accredited/ applied for UG programs - 50% 2. Training completed for more than 70% final year students for exit exams 3. BoG meetings (July 2019-June 2020): 4 4. Autonomy (UGC/as per PIP)	Any 3	Not Applicable	Yes, three Parameters achieved. 1. 42.85% (03 programs are applied for). 2. 88%. 3. 04 BoG Meetings. 4. UGC Autonomous.
3	Academic	Availability of online student feedback system related to faculty in the current semester with few questions on remedial classes, use of MOOCs & digital boards for blended learning (feedback of at least 80% faculty available)	Yes (to be checked from URL link shared)	Yes (repeat) (to be checked from URL link shared)	Yes Online feedback is collected for 100% faculty members.
4		No. of subjects where remedial classes conducted (Proof for 2019-20 and July –	Min. 10 subjects	Min. 2 subjects all	Yes Total number of subjects for which Remedial





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		September 20)	all branches together	branches together	classes were conducted during 2019- 2020: 199
5		Training on IT-ITes Skills	Number of faculty trained at IITs: 5	Number of students trained at institute: 100	<p style="text-align: center;">Yes</p> 1. Number of faculty trained at IITs: 27 2. Training of 300 students is proposed during July-Sep. 2020.
6	R & D	<p>R & D:</p> 1. At least one Collaborative research project procurement completed and experimentation work started 2. At least one group of students participated in SI Hackathon/ e-yantra (IIT Bombay) OR project/internship using FOSSEE	Yes	Yes (repeat)	<p style="text-align: center;">Yes</p> 1. The procurement has completed for 09 CRS projects and experimentation has also started. 2. The students group of CSE/IT department has participated in AICTE Smart India Hackathon. 3. The students of Institute have also done projects using software (FOSSEE)
7	ICT	Institute has 1. Two setup boxes of SWAYAM Prabha broadcasting on large TV Screens, use by stakeholders 2. Access to digital contents through e-shodhsindhu/ shodhganga/ NDL/ e-PG Pathshala 3. Use of at least one open source software (FOSSEE) 4. Use of at least one Virtual Lab in regular curriculum 5. 30 % Faculty of institute registered on Vidwan 6. 40% Faculty certified for atleast one MOOCS/ SWAYAM/ NPTEL course	Any 4	Any 5	<p style="text-align: center;">Yes, achieved all Six</p> 1. Five Setup boxes of SWAYAM are available. 2. The Faculty & Students are registered on e-shodhsindhu/ shodhganga/ NDL/ e-PG Pathshala. 3. Five software are being utilizing from FOSSEE. 4. Every department is utilizing virtual labs for UG & PG students. 5. 33% faculty members are registered on Vidwan portal. 6. 70% faculty members are certified from NPTEL/SWAYAM/Coursera/Other MOOCS.





2. Conduction of classes and academic activities in online mode

- In view of the present situation due to COVID-19 pandemic, various advisory were issued to faculty & Staff members of Institute regarding guidelines for ensuring Teaching Learning activities through online mode. In addition to above, all the faculty members were instructed to submit the details of work done from home including online sessions of students Teaching & Learning and online Mid Sem Examination conducted.
- Further, teaching learning activities (online classes/interactive sessions with students) conducted during lockdown at various department level is complied as summarised below:

Summary of On-line Classes	
Name of Department	Remarks
Civil	Total Interactive Classes = 195 Videos on youtube/ Google Drive = 74
Mechanical	Total Interactive Classes = 253 Videos on youtube/ Google Drive = 192
Electrical	Total Interactive Classes = 376 Videos on youtube/ Google Drive = 192
Elex &ET	Total Interactive Classes = 204 Videos on youtube/ Google Drive = 298
CSE/IT	Total Interactive Classes = 430 Videos on youtube/ Google Drive = 342
Chemical	Total Interactive Classes = 81 Videos on youtube/ Google Drive:59
Applied Sciences	Total Interactive Classes = 134 Videos on youtube/ Google Drive = 114
Humanities	Total Interactive Classes = 161 Videos on youtube/ Google Drive = 06
Architecture	Total Interactive Classes = 95 Videos on youtube/ Google Drive = 57



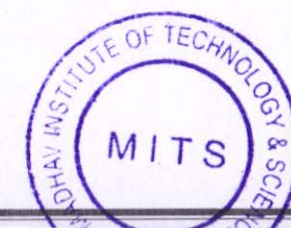


3. Online remedial/additional classes during lockdown

- The institute is always determined to ensure good performance of students with special attention to the slow learners and needy students for the improvement in **quality and equity**. In view of the same the classes and other academic activities were continued after 26th April 2020 to help those students who were not able to attend the classes earlier due to technical or other reasons. The **remedial classes for UG & PG** students were also conducted. **The following is the summery of total Remedial Classes conducted through online mode during lockdown & subsequent unlock-1 in various departments:**

Dept./Year	B.Tech.				M. Tech	Total
	I	II	III	IV	I	
Applied Science	57	52	12	0	0	121
Civil	6	35	8	6	0	55
Mechanical		40	15	0		110
Automobile	51	24	9	5	4	38
Electrical	42	79	49	36	37	243
CSE		72	42	32		217
IT	27	51	40	36	44	127
Electronics & ET	0	106	72	24	19	221
Chemical	0	25	32	19	0	76
Architecture	15	2	0	0	0	17
Biotech	0	22	15	13	0	50
MCA	18	61	37	0	0	116
Total	216	569	331	171	104	1391

The House appreciated the efforts made by Institute to reach each individual effectively and to maintain equity aiming at improving **“Transition Rate**



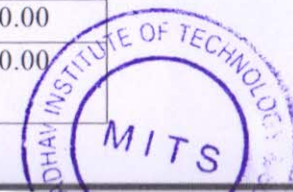


4. Mid Semester Examination through MOODLE and report the variation in scores through statistical analysis.

- The mid-semester II examination was conducted online using MOODLE from 26th April to 2nd May 2020. For establishing the credibility of evaluation, the statistical comparison of results of online open book examination (MCQs as well as subjective in a few courses) has been done with the off-line pen paper mode traditional examination (with subjective questions).
- The courses where the mean marks were ≥ 18 and/or the standard deviation was ≤ 2 were identified where the variation of marks was found to be very less in the online mode of examination.
- Out of the 259 courses for which the results of the online mid-semester examination were analyzed, about 45 courses ($< 17.5\%$) were found to have low variation in students scores.
- Efforts were made to identify the reasons for very low variation in scores or very high scores for all students to establish the credibility of the online/open book mid-semester examinations conducted through the MOODLE.
- The mid-semester III examination was also conducted online using MOODLE from 16th June to 24th June 2020.

5. The following courses have been identified (Mean ≥ 18 and/or Standard Deviation is ≤ 2) where the variation of marks is found to be very less in the online mode of examination.

CIVIL ENGINEERING							
S. No.	Course Code	Midsem	Highest Score	Mean Score	Least Score	Standard Deviation (Variation)	No. of Absentees
1	Structural Analysis, 110404	First	19.00	8.15	1.00	5.32	31.00
		Second	19.00	17.89	12.00	1.15	1.00
2	Disaster Management, 100007	First	20.00	18.50	18.00	0.62	19.00
		Second	20.00	19.66	18.00	0.51	0.00
3	Construction Planning & Management, 110613	First	20.00	14.20	0.00	4.70	15.00
		Second	19.50	18.97	7.50	1.82	0.00
4	BCEL 804, Building Env & Services	First	20.00	17.81	9.66	1.98	0.00





MECHANICAL ENGINEERING							
1	Engineering Thermodynamics, 190404	First	18.00	14.56	12.00	1.44	28.00
		Second	20.00	18.68	10.66	1.35	0.00
2	Advance Welding Technology, BMEL-804	First	20.00	19.33	13.00	1.26	0.00
AUTOMOBILE ENGINEERING							
1	Automotive electrical and electronics system-190402	First	19.00	14.67	7.00	3.15	19.00
		Second	20.00	17.98	12.00	1.48	0.00
2	Disaster Management, 100007	First	20.00	16.16	10.00	2.41	8.00
		Second	20.00	19.35	12.00	1.65	1.00
ELECTRICAL ENGINEERING							
1	Power System-I, 130404	First	19.00	13.23	4.00	4.39	32.00
		Second	20.00	17.78	13.00	1.60	2.00
2	Cyber Security, 100004	First	19.00	14.92	8.00	2.83	22.00
		Second	20.00	18.87	13.00	1.40	4.00
3	Power System-I, 130404	First	19.00	12.13	2.00	5.04	23.00
		Second	20.00	17.69	9.00	1.92	3.00
4	Cyber Security, 100004	First	15.00	10.93	2.00	3.05	15.00
		Second	20.00	18.84	14.67	1.29	0.00
5	Disaster Management, 100007	First	19.00	13.16	4.00	3.63	27.00
		Second	20.00	18.93	10.00	1.79	0.00
6	BEEL804 High Voltage Engineering	First	20.00	19.10	13.00	0.88	0.00
ELECTRONICS ENGINEERING							
1	Electronics measurement and instrumentation-140404	First	20.00	15.87	8.00	3.01	5.00
		Second	20.00	17.90	13.00	1.54	0.00
2	Mathematics-III, 100003	First	20.00	14.65	1.00	4.80	12.00
		Second	20.00	18.76	14.00	1.48	4.00
		First	20.00	16.78	8.00	2.37	7.00





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		Second	20.00	19.44	14.00	1.15	0.00
4	Disaster Management, 100007	First	18.00	13.43	10.00	2.36	15.00
		Second	20.00	17.67	11.00	1.99	7.00
5	Optical Communication, 113A	First	19.00	9.66	2.00	4.68	18.00
		Second	20.00	18.46	14.00	1.16	2.00
6	Fiber Optics & Optical Communication-BELL- 801	First	20.00	19.76	13.00	0.77	0.00
7	Satellite Communication-BELL-802	First	20.00	19.12	12.00	1.33	0.00

ELECTRONICS & TELECOMMUNICATION ENGINEERING

1	Cyber Security, 100004	First	15.00	12.02	9.00	1.54	22.00
		Second	20.00	18.94	13.00	1.98	0.00
2	Disaster Management, 100007	First	19.00	12.32	6.50	3.26	16.00
		Second	20.00	17.75	11.00	1.87	3.00

COMPUTER SCIENCE & ENGINEERING

1	Database Management Systems, 150402	First	19.00	13.74	2.00	3.88	25.00
		Second	20.00	17.73	11.00	1.49	3.00
2	Disaster Management, 100007	First	20.00	17.67	17.00	0.68	0.00
		Second	20.00	19.57	18.00	0.53	0.00
3	Data Structures (900106)	First	20.00	15.67	7.00	2.71	18.00
		Second	20.00	19.24	12.00	1.29	0.00
4	Software Engineering (900108)	First	19.00	11.78	5.00	3.29	20.00
		Second	20.00	17.75	13.00	1.47	0.00
5	BCSL804	First	20.00	19.71	14.00	0.82	6.00

INFORMATION TECHNOLOGY

1	Mathematics-III, 100003	First	20.00	13.86	4.00	4.84	19.00
		Second	20.00	19.03	15.00	1.22	5.00
2	Operating System, 160403	First	17.00	11.07	1.00	4.76	20.00
		Second	20.00	18.48	14.00	1.29	0.00





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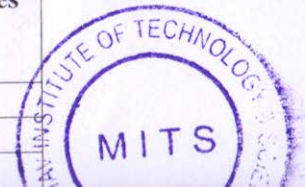
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3	Computer Network, 160602	First	19.00	14.31	5.00	3.10	25.00
		Second	20.00	18.10	4.00	1.99	6.00
CHEMICAL ENGINEERING							
1	Mass Transfer - I, 170403	First	20.00	14.33	1.00	4.93	13.00
		Second	20.00	18.92	14.00	1.12	0.00
2	Environmental Engineering, BCHL 804	First	20.00	19.56	13.00	1.23	0.00
I Year							
I Year (2nd Semester) (Civil)							
S. No.	Course Code	Midsem	Highest Score	Mean Score	Least Score	Standard Deviation (Variation)	No. of Absentees
1	Basic Computer Engineering - 100203	First	19.00	14.30	4.00	2.65	38.00
		Second	20.00	18.88	8.00	1.90	2.00
2	Basic Civil Engineering & Mechanics , 100205	First	20.00	12.53	3.00	4.09	43.00
		Second	20.00	17.46	7.00	1.97	3.00
I Year (2nd Semester) (Electrical)							
1	Basic Electrical & Electronics-100104	First	18.00	12.50	4.00	3.31	23.00
		Second	20.00	18.43	11.00	1.74	2.00
I Year (2nd Semester) (CSE)							
1	Engg. Graphics-100105	First	19.00	13.70	4.00	3.98	22.00
		Second	20.00	19.73	18.00	0.48	4.00

ARCHITECTURE

Course Code	Midsem	Highest Score	Mean Score	Least Score	Standard Deviation (Variation)	No. of Absentees
(210201) Arch. Design II	First	26.00	21.95	15.00	2.11	0.00
	Second	27.00	23.94	21.00	1.73	4.00
(210206) Theory of Design	First	26.00	22.29	17.00	2.39	5.00





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(210402) Building Construction III	Second	30.00	28.18	21.00	1.92	1.00
	First	27.50	22.82	16.00	2.56	9.00
Structure -IV, Sub. Code:210405	Second	24.00	20.43	15.00	1.80	0.00
	First	24.00	21.77	19.00	1.38	7.00
ELECTIVE -1 (Society culture and Architecture), Sub. Code:210406	Second	26.00	22.82	19.00	1.88	0.00
	First	30.00	23.84	19.50	3.22	9.00
(210601) Arch. Design VI	Second	29.50	25.22	21.00	1.97	0.00
	First	26.00	22.59	17.50	2.05	0.00
(210606) Elective IV(Human Settlement)	Second	21.00	19.00	18.00	1.73	0.00
	First	27.00	24.33	18.00	2.01	10.00
	Second	30.00	27.40	23.00	1.74	0.00

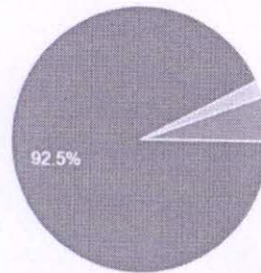
Out of the 259 courses for which the results of the online mid-semester examination were analyzed, the above 45 courses (which is less than 18 %) were found to have discrepancies in students scores.

6. STUDENTS FEEDBACK REPORT- 2019 BATCH : EXIT SURVEY

Total No. of Responses: 817 (Students)

Your Course Name ?

817 responses



- B.E.
- B.Arch
- M.E./M.Tech/M.Arch
- MCA





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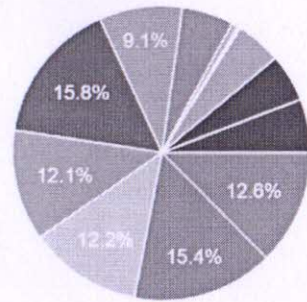
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Your Branch?

817 responses

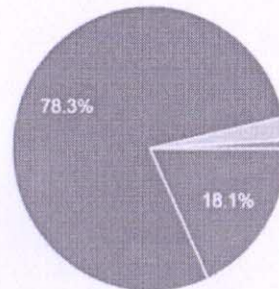


- Civil
- Mechanical
- Electrical
- Electronics
- CSE
- IT
- Chemical
- Biotechnology

1/3 ▼

About Learning: Are you able to identify the principal concepts, theories, and practices in the functional areas of branch?

817 responses



- Very Successful
- Successful
- Unsuccessful
- Very Unsuccessful





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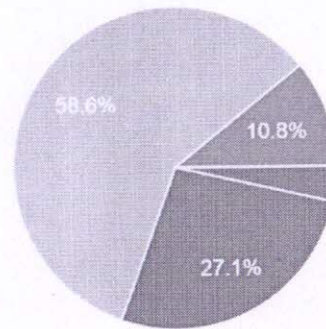
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Rate the Faculty Teaching in the UG & PG Programs:

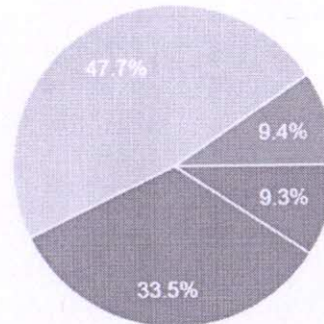
817 responses



- Poor
- Fair
- Good
- Excellent

Creativity of Your Professors?

817 responses



- Poor
- Fair
- Good
- Excellent





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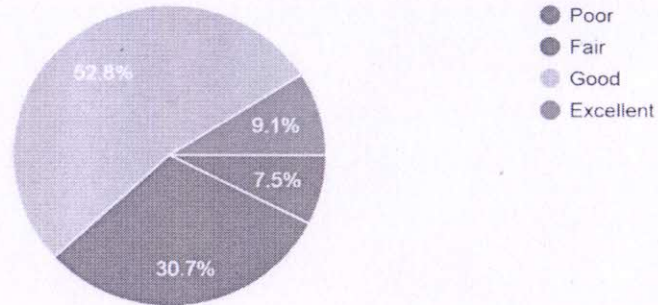
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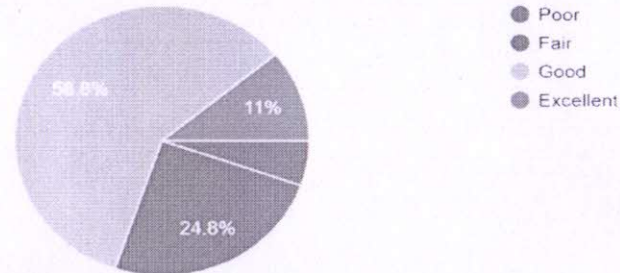
Teaching Methods of Faculty?

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Curriculum in the Program which you attended?

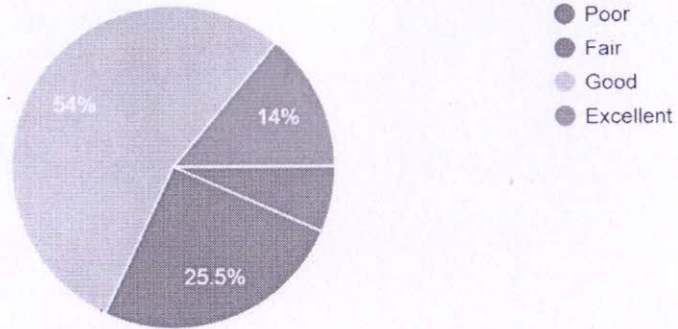
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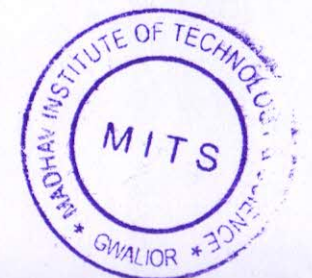
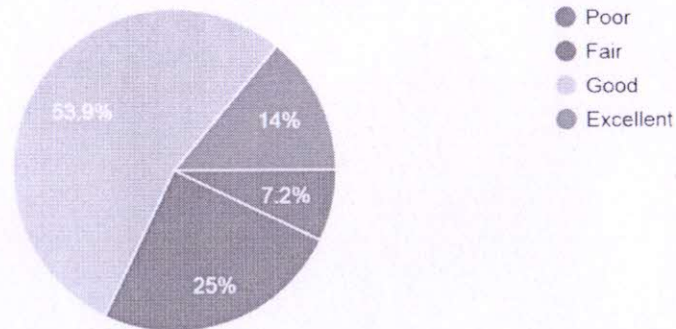
Relevance of Course to Your Career Goals or Further Study:

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Availability of and Access to Faculty During Office Hours:

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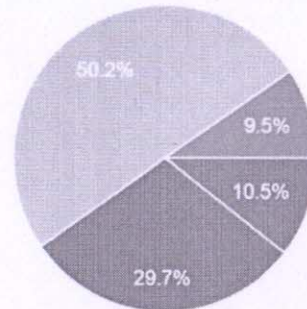
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Learning and Technological Resources:

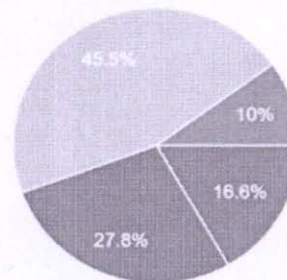
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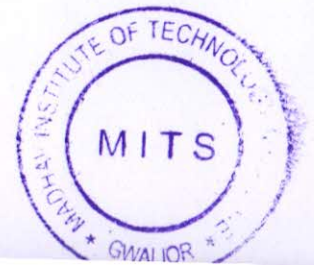
- Poor
- Fair
- Good
- Excellent

Library Resources in the Areas of Engineering, Research, Journals & e-Journals, Technical Magazines etc.

817 responses



- Poor
- Fair
- Good
- Excellent





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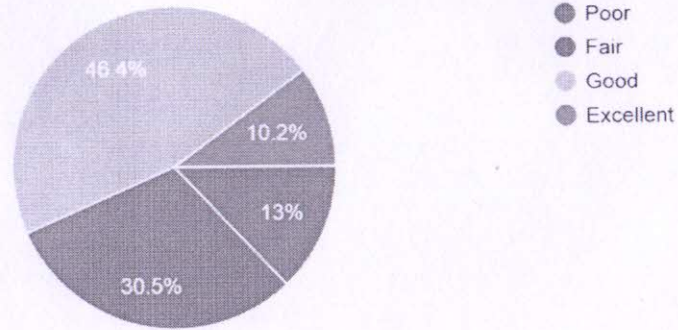
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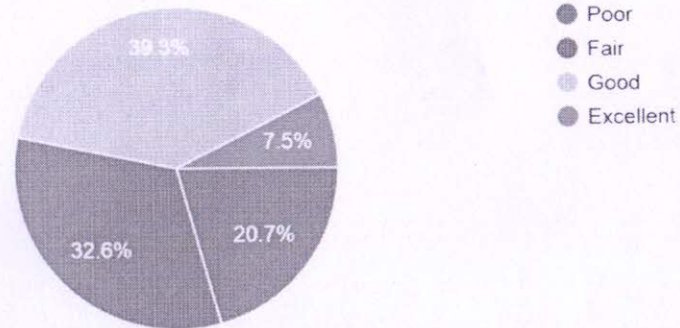
Help in Career Counselling and future Planning:

817 responses



Internship Opportunities:

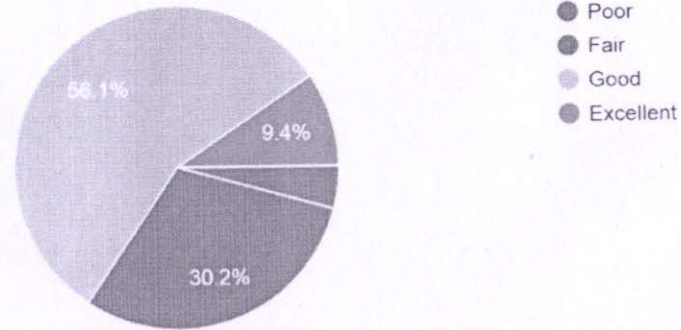
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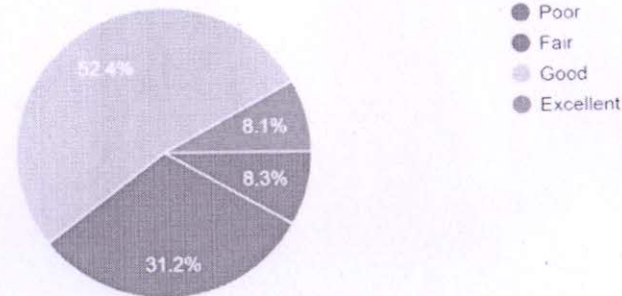
Student Organizations, Technical & Social Clubs:

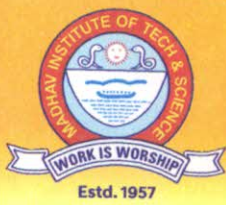
817 responses



Cultural Activities and other Development:

817 responses





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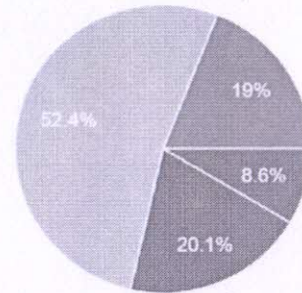
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal, M.P.)

Gola ka Mandir, Gwalior (M.P.)- 474 005, INDIA

Ph.: +91-751-2409300, Fax: +91-751-2664684, e-mail: director@mitsgwalior.in, website: www.mitsgwalior.in

Training & Placement Support:

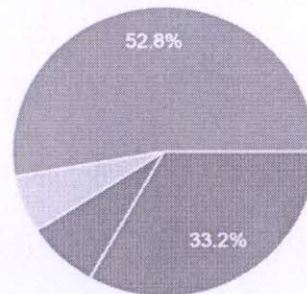
817 responses



- Poor
- Fair
- Good
- Excellent

Were you selected for Job On Campus or from Outside?

817 responses



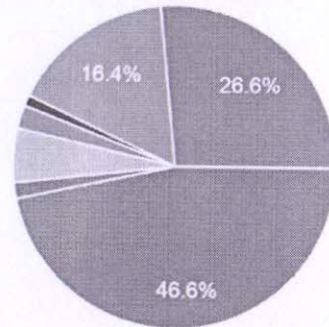
- On Campus
- Off Campus
- Opted Out from Campus Placement Process
- NA : Not Applicable





Opted for Job or Post Graduation?

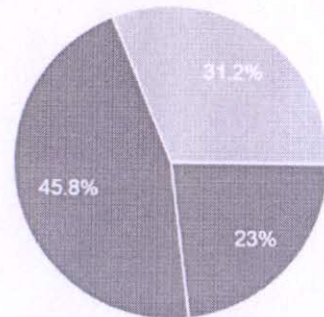
817 responses



- Job
- MBA
- M.Tech
- Own Business
- Ph.D
- Further Study
- NA; Not Applicable

Have you Qualified or Not Qualified GATE Exam?

817 responses



- Qualified
- Not Qualified
- Not Applicable

P. Jeyaraj
IQAC coordinator