



**Minutes of the Internal Quality Assurance Cell (IQAC), Meeting held on 22<sup>nd</sup> May 2019**

**Item- 1 Compliance status and confirmation of minutes of previous meeting held on 22.12.18**

- The action taken/compliance report of previous meeting was discussed and accepted after review:  
✚ The House in its last meeting has appreciated the regular conduction of faculty and staff development programmes in the Institute. It was suggested that faculty development and training programs must involve experts from Industries for delivering lectures in Faculty development programmes to boost interaction and collaboration.

**The following experts were invited in the FDPs under QIP (49 Experts)**

- Dr. S.P. Aggarwal, Professor, IIRS, Dehradun
- Dr. Amit Pal, Professor, DTU, Delhi
- Prof. N.K. Gupta, Ex Scientist, ISRO
- Dr. P.K.S. Dikshit, Professor, IIT (BHU), Varanasi
- Dr. Basant Agarwal, Professor, SGSITS, Indore
- Dr. Shshibala, Professor, Shubharti Meerut University
- Dr. Ravi Kumar, Professor, MMIT Modinagar
- Dr. O.P. Agrawal, Professor, Jiwaji University, Gwalior
- Dr. Thornton Streeter, Professor, Center for Biofield Science, Goa
- Dr. D.C. Chaturvedi, Professor, DEI, Agra
- Dr. Vibhkar Shrimali, Professor, GB Pant Okhala, New Delhi
- Dr. Archana Gupta, Professor, GRMC, Gwalior
- Dr. Ranjan Maheshwari, Professor, Govt. Engg. College, Ajmer
- Dr. M.A. Ansari, Associate Professor, Gautam Budha University, Noida
- Dr. Sandeep K.Jha, Assistant Professor, IIT Delhi & AIIMS Delhi
- Dr. S.S. Mehta, Professor, MBM, Jodhpur
- Dr. R. Balasubramanian, Professor, IIT Roorkee
- Dr. P. Roy, Assistant Professor, IIT Roorkee
- Dr. Dinesh K. Rajoria, Associate Professor, Sagar Group, Bhopal
- Dr. Arun Balodi, Assistant Professor, NIT, Delhi
- Dr. R.S. Anand, Professor, IIT Delhi
- Dr. Kamal Raj Pardasani, Professor, NIT Bhopal
- Dr. Jagdish Chand Bansal, Assistant Professor, South Asian University, Delhi
- Dr. P.K.Singh, Associate Professor, ABV-IIITM, Gwalior
- Dr. Prashant Singh Rana, Assistant Professor, TIET Patiala
- Dr. Anurag Singh, Assistant Professor, NIT Delhi
- Dr. T.V. Vijay Kumar, Professor, JNU, New Delhi
- Dr. Partha Pratim Roy, Assistant Professor, IIT Roorkee
- Dr. Prashant Kumar Jain, Associate Professor, IIITDM Jabalpur
- Dr. Vivek Kapoor, Assistant Professor, DAVV Indore
- Dr. D.S. Tomar, Associate Professor, MANIT Bhopal
- Prof. Shekar Verma, Professor, IIIT Allahabad
- Prof. K. K. Biswas, Visiting Faculty, IIT Delhi Bennett University
- Dr. Sumantra Dutta Roy, Professor, IIT Delhi
- Mr. Manu Pratap Singh, Associate Professor, Dr. B. R. Ambedkar University, Agra

- Dr. Arvind Kumar Saxena, Professor & Director, Institute of Basic Science , BU, Jhansi
- Dr. Rajneesh Mishra, Professor, IIT, Indore
- Dr. Prabhat Diwedi, Professor, IIT, Kanpur
- Dr. Pankaj Shrivastava, Professor, IIITM, Gwalior
- Dr. D.C. Tiwari, Ex. Vice Chancellor, Jiwaji University, Gwalior
- Dr. D.K. Gupta, Professor, Allahabad University
- Dr. Gajanan Pandey, Professor, Babasaheb Bhimrao Ambedkar (Central) University, Lucknow
- Dr. Sanjay Shrivastava, Professor, Institute of Science, BHU, Varanasi
- Dr. Sushil Kumar Jain, Professor, Manipal University, Jaipur
- Dr. Pramod Kumar Purohit, Professor, NITTTR, Bhopal
- Dr. P. Rajaram, Professor, Jiwaji University, Gwalior
- DR. K.N. Pandey, Professor, CIPET, Lucknow
- Dr. Satendra Mishra, Professor, GEC, Jalgaon
- Dr. M.S. Gaur, Professor, Hindustan Engineering College, Agra

✚ In addition to this, MoUs are in the pipeline for many departments for faculty training and student internships. The T&P cell is also expected to take up this task to meet the growing need of industrial exposure to faculty and students.

✚ In compliance to the AC and IQAC, the norms are being followed regarding M.E. dissertations.

✚ For PG students admitted in July 2017 session the submission of dissertation in soft copy (pdf file with scanned copy of candidate declaration and other required certificates). Similarly for final year BE passing out batch 2019 also soft copy thesis submission has been implemented and plag report and abstract in Hindi is compulsory.

✚ Guidelines have been issued regarding conduction of PG dissertation viva voce using the on-line platforms to avoid delay.

✚ A repository will be made to store the M.E. dissertations on the website.

➤ **The minutes of previous IQAC meeting dated 22.12.2018 were confirmed.**

**Item-2 To review the Status of Implementation of the Flexible Curriculum and offer suggestions for enhancing effectiveness**

➤ The house reviewed the status of implementation of Flexible Curriculum in the Institute, following points were discussed during meeting:

✚ The Flexible Curriculum has been implemented in the Institute w.e.f. July 2017. However, for its effective implementation , the Academic Cell of the Institute is developing the following norms:

- Norms for conducting departmental/open elective courses
- Norms for **credit transfer through MOOCs / NPTEL** and other approved on-line courses
- Norms for awarding “**Honours**” to students who complete 20 additional credits from their own parent department/programme
- Norms for awarding “**Minor Specialization**” to students who complete 20 additional credits from other department/programme
- Norms for awarding marks for the 01 credit “**Professional Development**” course in VIII semester
- Some courses are being developed in each department to be run in collaboration with industry experts, such that about 01 credit (around 10-15 hours lectures) will be

covered by the expert. Detailed norms will be developed after the approval of the Academic Council.

- ✚ The norms proposed by the Academic Cell will be discussed in the **Academic Council Meeting** on 1<sup>st</sup> June 2019 and after approval, will be implemented for the batches in academic year July 2019-June 2020.

**Item-3 To apprise the House about the status of collaborations/links established with other institutions**

- The house appreciated the signing of MoU by the Institute with the University of Central Florida, Orlando, U.S.A on 11<sup>th</sup> March 2019 for collaborative activities on following:
  - a) UG/PG student exchange
  - b) Exchange of faculty
  - c) Collaborative research and development
  - d) Exchange of academic/scientific material and publications of common interest
  - e) Any other mutually agreed activity
- The house also suggested for publicising this MoU & its benefits among the Students.

**Item-4 To apprise the House about the status of Ph.D programmes in the Institute**

- The house appraised the following status of Ph.D. programmes running in the Institute under QIP/AICTE-NDF/other scholar admitted in the Institute as a study/research centre of RGPV, Bhopal:

✚ **Department wise Ph.D. Details (2018-19)**

Name of Department	Ongoing	Submitted	Awarded
Civil Engineering	5	0	0
Mechanical Engineering	13	1	1
Electrical Engineering	23	1	3
Electronics Engineering	23	0	1
CSE/IT	18	0	0
Applied Sciences	0	1	0
Computer Application (MCA)	0	3	0
Architecture	9	1	0

- (i) Half yearly review was conducted on 7<sup>th</sup> September 2019 by a duly appointed committee to ensure compliance of university norms and to monitor the progress and status of work.
- (ii) The university has notified the revised Ph.D. ordinance effective. 2<sup>nd</sup> May 2019. The same has been circulated and uploaded on the website.
- (iii) In compliance to revised Ph.D. ordinance the **Research Advisory Committee (RAC)** will be constituted for each candidate to guide, monitor and review the progress of the candidate during the programme duration.

✚ Admission/status of Ph.D. Programmes:

- (i) Five candidates are selected by AICTE for admission under QIP scheme; the Institute has offered the advance admission (1019-20) to following five students.

Sr. No.	Name of Candidate	Department
1	Mr. Shubham Chitransh	Civil Engineering
2	Mr. Amit Jain	Mechanical Engineering
3	Mr. Jitendra Singh Kirar	Mechanical Engineering
4	Mr. Hitesh Gupta	Computer Science & Engineering
5	Mr. Ratnesh Kumar Dubey	Computer Science & Engineering

- (ii) The AICTE has called the total 113 candidates to appear in the Interview at Institute on 21.06.2019 under the NDF-Ph.D. admission scheme.

Sr. No.	Discipline	OC/General	OBC	SC	ST	Total
1.	Architecture	03	04	00	00	07
2.	Civil Engineering	10	09	08	01	28
3.	Computer Science & Engineering	11	06	10	00	27
4.	Electrical Engineering	11	07	03	00	21
5.	Mechanical Engineering	10	10	10	00	30
Total		45	36	31	01	113

**Item-5 To apprise the house about QIP short-term courses for faculty development and training approved by the AICTE for financial year 2018-19**

- The house appreciated the efforts taken for the conduction of following AICTE-QIP approved Courses Organised during January-March 2019:

S.No	Title	Coordinator	Department	Duration
1	RF and Microwave Antennas	Dr. P.K. Singhal Dr. V.V. Thakare	Electronics	one week 5-9 Jan 2019
2	Intelligent Computing Techniques in Data Mining and Image Processing	Dr. Akhilesh Tiwari Prof. Punit Johari Prof. Neha Bharadwaj	CSE&IT	one week 1-5 Feb. 2019
3	Optimization Techniques using Nature Inspired Algorithm for Engineering Application	Dr. Laxmit Srivastava	Electrical	one week 13-17 Feb. 2019
4	Sustainable Development method and practices	Dr. R. Kansal Dr. C.S. Malvi	Civil	one week 21-25 Feb. 2019
5	Bioelectrical Signal and Medical Imaging	Dr A.K. Wadhvani	Electrical	Two week 26 Feb. -8 Mar. 2019
6	Artificial Intelligence and Machine Learning	Dr. R.S. Jadon Dr. Anshu Chaturvedi Prof. Parul Saxena Prof. Neha Bharadwaj	CSE&IT	one week 7-11 march 2019
7	Thermodynamics and its Application to Solar Energy System Design	Dr. M.K. Gaur	Mechanical	Two weeks 9-18 march 2019
8	Trends and Techniques in Image Processing, Multimedia and Security Issues	Dr. Manish Dixit Prof. Jaimala Jha	CSE&IT	one week 15-19 March 2019
9	Nanoscience and Technology	Dr. Abhay Mishra	Applied Science	one week 14-18 March 2019

**Item-6 To review the events conducted by professional society chapters/student clubs during July 2018 - 2019**

- The house appreciated the MITS team (Cicada\_3301) of students from department of CSE & IT for participation and winning the first Prize worth Rs.1 Lakh in the prestigious "Smart India Hackathon (SIH) 2019" organized by MHRD at Bhubaneswar, Odisha in the first week of March 2019.

- The house reviewed the status of events conducted by professional society chapters/clubs and students participation in various activities conducted by Institute/other organizations/Institute. A total of 66 activities were conducted in the July 2018 - 2019 Session. The details are:

### Club Activity Details July 2018 - 2019

S. No.	Name of Club	Activity Name	No. of Activities
1.	<b>ASIMOV Robotics Club</b>	Orientation Program	07
		ROBOSYM 2.0	
		Expert Talk	
		One Day Workshop	
		INFOTSAV 19	
		ABV-IIITM	
		One Day Seminar	
2.	<b>IET Student Chapter</b>	AAVRITTI 2.0	06
		How to Write Patent	
		EDP in Solar PV Energy	
		Yatse 2.0	
		“Dev Ops”	
		“Human Robot Interaction for Enhanced Perception and Social Well Being”	
3.	<b>Technical Exhibition Club</b>	“The Present Around The World (PATW-19)	01
		Expert Talk & Poster Presentation	
4.	<b>Dance Club</b>	Group & Solo Dance	04
		International Dance Festival	
		Group Dance	
		Zumba Workshop	
5.	<b>“Art of Living Club - SELP” under Teqip –III</b>	Eliminate Mental Stress and improve the Physical Health of an individual	01
6.	<b>MITS Journalism Society</b>	Recruitment 2.0	08
		Your Quote Open Mic MITS	
		“Life at MITS” Video Blog	
		“Know Your Alumni” Interview Series	
		Photographing February	
		Terribly Tiny Tales	
		“Career Prospects in Management” in collaboration with “Career Counselling club”	
		Abhyudaya	
		• Quiz • Creative Writing • Live Sketching	
7.	<b>HAM RADIO SOCIETY MITS</b>	Workshop of Antena Designing and Fox Hunt	09
		Workshop on solar clap car	
		Meditation for Stress Management	
		Motivation lecture on “How to stay focused for GATE”	
		Maze Solver Robot	
		Seminar on “Digital Transformation & Contribution of Engineers for Society”	

		Manthan -19	
		Seminar on Carrier Counselling	
		Quiz on women empowerment	
8.	<b>Art Club</b>	Etch a sketch	02
		The logo hunt	
9.	<b>INTERNATIONAL OPPORTUNITIES CLUB</b>	Expert talk on “ <b>Opportunities in AI and Data Analytics</b> ” through video conferencing	01
10.	<b>Aerospace Club</b>	Introduction to Aerospace Propulsion (ITAP)	03
		Introduction to Aerospace Propulsion 2.0 (ITAP 2.0)	
		Seminar on Space Technology	
11.	<b>Sports Club</b>	SPARDHA	02
		Nukad Cricket	
12.	<b>Holistic Health Club MITS</b>	“ <b>Yoga Session</b> ” for the first year students during induction program.	03
		“ <b>Drug Free India</b> ” Campaign	
		“Art of Living – <b>SELP</b> ” ( <b>Student Excellence and Learning Program</b> ) under TEQIP-III	
13.	<b>ISTE Students’ Chapter MITS</b>	XCalibre	08
		TechCelesta: AutoCAD Workshop	
		TechCelesta: IOT Workshop	
		TechCelesta: PCB Designing Workshop	
		Chimera-X	
		Motivational Talk	
		Talk on Gender Equity	
		An interactive session	
14.	<b>SAEINDIA MITS COLLEGIATE CLUB</b>	3 days Workshop on Soccer BOT League	04
		BAJA -2019 Virtual (12 July 2019)	
		Dynamic Round (20 Jan 2019)	
		MEGA-ATV -2019	
		National Super carting Championship {Virtual (18-19 Aug 2018) Main Event (24-27 Sept 2018)}	
15.	<b>ACM Students, Chapter MITS</b>	CSGO	07
		8-Bit Gaming & RUBIK’S Cube	
		FIFA (Solo)	
		FIFA (Duo)	
		PUBG (Solo)	
		PUBG (Duo)	
		PUBG (Squad)	

**Item-7**

**To review the status of GATE, Employability Skill Training & Campus Placements for final year students of 2019 batch and propose suggestions for improvement**

- The house reviewed the current status of placement, selections in GATE and the Institute efforts for the employability skill training, GATE training, following are the details:

GATE & Employability Skill Training and Results				
Sr. No.	Particulars	Numbers		
1.	Total Number of Final Year Students 2018-2019	824		
2.	Total Number of Students taken GATE Training	704		
3.	Total Number of Students (III Year) taken GATE Training	392		
4.	Total Number of Students (Final Year) taken GATE Training	312		
5.	Total Number of Students (Final Year) Appeared in GATE-2019	224		
6.	Total Number of Students (Final Year) qualified GATE- 2019	180		
7.	Best Five Rank in GATE-2019 (Name, Rank, Discipline)	Name of Student	Rank	Discipline
		1.Vivek Khandelwal	45	CSE
		2.Anuj Pahariya	166	EC
		3.Samyak Jain	215	AU
		4.Rohit Gupta	240	CSE
		5.Amiya Tripathi	280	CSE
8.	Total Number of Students (Final Year) taken Employability Skill Training	656		
9.	Total Number of Students Placed 2018-2019	441		
10.	Best Three Packages offered by Companies	Organization	No. of Students	Package
		Amazon	02	16.50 LPA
		Trident	23	9.00 LPA

Summary of GATE -2019 Result					
S.No.	Department	Registered	Appeared	Qualified	% pass
1	AU	6	6	6	100
2	BT	6	6	2	33
3	ME	50	37	33	96
4	IT	42	16	14	86
5	CSE	42	32	31	96
6	CM	27	23	4	17
7	CE	45	43	39	90
8	EC/ET	69	26	21	80
9	EE	39	35	30	85
	Total	326	224	180	80%

#### SUMMARY OF PLACEMENT (PASSING OUT BATCH - 2019)

Sr. No.	Company Name	Total Placed Students	Company Salary Package
1	TCS	26	Rs. 3.75
2	Indian Navy (UES-19)	1	Rs. 8.0
3	Infosys	127	Rs. 3.6
	Infosys	2	Rs. 5.0

	Infosys	1	Rs. 8.0
4	Norican Group (DISA India)	<b>In process</b>	Rs. 3.0
5	Accenture	141	Rs. 3.5
6	IBM	23	Rs. 4.1
7	Prism Johnson Limited	4	Rs. 4.25
8	LTI (L&T Infotech)	16	Rs. 4.18
9	Capgemini	28	Rs. 3.6
10	TEK Systems	1	Rs. 6.0
11	Hitachi	-	-
12	Trident Group	23	Rs. 9.0
13	Tata AIG	1	Rs. 4.2
14	BYJU's	4	Rs. 7.5
15	Zycus	1	Rs. 6.5
16	Wipro	9	Rs. 3.50
17	Metacube	1	Rs. 4.1
18	Praedico Global Research Pvt. Ltd. (Stock Gurukul)	4	-
19	Tata Projects	8	Rs. 4.5
20	BORL	2	Rs. 7.0
21	Sudarshan Chemical	2	Rs. 4.0
22	Trident Group	2	Rs. 9.0
23	Jaro Education	0	Rs. 12.0
24	Berger Paints	0	Rs. 4.5
25	PUBMATIC	1	Rs. 5.5
26	DCM Shriram	7	Rs. 3.2
27	LUPIN	9	Rs. 3.2
28	Newgen	5	Rs. 4.5
29	Mobiloitte Technologies	13	Rs. 2.2
30	Jamna Auto	11	Rs. 2.6
31	Indian Hume Pipe	19	Rs. 3.52
32	Amdocs	10	Rs. 4.1
33	Mahindra & Mahindra	<b>Awaited</b>	Rs. 4.1
34	Amazon	<b>21st May</b>	Rs. 16.5
35	Samsung	<b>Inprocess</b>	Rs. 4.5
<b>Total</b>		<b>502</b>	

Highest Package of 2018-19 : 16.5 LPA (Amazon)

Avg. Package of 2018-19 : 4.00 LPA

- Mr. Yatindra Kumar Shrivastava, Industrialist & Employer Member of IQAC, suggested to increase the number of training program on professional/personality development through external experts or agency. Mr Yatindra also suggested to implement the policy of choice filling by the students for placement through Institute T&P Cell (In or Out).
- Mr. Rajnesh Khosla, Employer Member of IQAC has emphasised on the need of participation of students in Tech-demos/Tech-fares, Mr. Rajnesh also suggested to incorporate the credits for such participation in Institute scheme of study.
- The employer members Mr. Yatindra & Mr. Rajnesh also suggested for implementing the policy of six months Industrial training/Projects/Internship for the students for better employability.



**Item -8**

**To apprise the House about the status of SWAYAM/NPTEL On-line Courses**

(Implementation of on-line learning platforms such as NPTEL (National Programme on Technology Enhanced Learning) /SWAYAM (Study Web of Active learning by Young and Aspiring Minds)

- The house appreciated the Institute team as MITS NPTEL Local Chapter is ranked 25<sup>th</sup> among all 853 existing active NPTEL Chapters in the country during July-December 2018 semester.(Rank improved from 89<sup>th</sup> in the previous semester)

**Total No. of courses offered by the Institute for Students: 164**

**Students Performance in NPTEL Courses Run During Jan- April 2019**

Total No. of Registrations	No. of Students Appeared in Exam	No. of Courses in which Registration are Made	No. of students qualified exam					
			Elite + Gold Certificate	Elite + Silver Certificate	Elite Certificate	Successfully Completed	No. of Toppers in Various Courses	Total Students Qualified Exam
3380 by 2006 students	337	246	25	51	82	130	26	288

**Performance of Faculty members NPTEL courses during Jan- April 2019**

Total No. of Courses Registered	Total No. of Faculty Registered in NPTEL Courses	No. of Registrations made by Faculty Members in Exam	No. of faculty members qualified exam						
			Elite + Gold Certificate	Elite + Silver Certificate	Elite Certificate	Successfully Completed	Total No. of Faculty Qualified Exam	No. of Toppers in Various Courses	No. of Faculty Members Completed FDP Courses
164	181	66	06	14	19	23	62	02	20 till date

- The house suggested to motivate the students to appear/registration in the SWAYAM/NPTEL examination in addition to enrolments for the courses.

**Item-9**

**To apprise the House about the status of Proposals submitted to AICTE for Financial assistance**

- The house reviewed the followed the status of various proposals submitted for research & Development grant under different grant from various agencies:

**Proposals Sanctioned Under Various Schemes in 2018-19**

S No	Scheme	Year	Department	Coordinator	Amount (Rs.)
1.	RPS-NDF	2019	Civil	Dr. M. K. Trivedi	11,00,000
2.	GOC	2019	Electrical	Dr. Manjaree Pandit	5,00,000
3.	RPS-NDF	2019	Electrical	Dr. A.K. Wadhvani	21,75,000
4.	PRERANA	2019	Applied Science	Dr. Vikas Shinde	7,30,000
5.	MODROB	2019	Architecture	Dr. Alok Sharma	17,49,000

**RESEARCH PROJECT/PROPOSALS SUBMITTED TO FUNDING AGENCY (IN-HOUSE PROJECTS INCLUDED) 2018-19**

S No	Scheme	Department	Coordinator	Amount (Rs.)
1.	MODROB	Architecture	Dr R K Pandit	20,00,000
2.	MODROB	Electronics	Dr. Pramod K.Singhal	11,34,000
3.	MODROB	CSE	Dr. Akhilesh Tiwari	26,45,000
4.	MODROB	Civil	Dr.M.K.Trivedi	15, 00,000
5.	MODROB	Mechanical	Dr.C.S.Malvi	19,91,612
6.	RPS	Electronics	Dr.Vandana Vikas Thakare	14,50,000
7.	RPS	CSE	Dr.Akhilesh Tiwari	21,20,000
8.	RPS	Architecture	Dr.R.K.Pandit	19,76,471
9.	RPS	Electrical	Dr.Hari Mohan Dubey	10,35,294
10.	RPS	Architecture	Dr. Anjali Patil	19,23,529
11.	HFS	Institute	Dr.R.K.Pandit	3,00,00,000
12.	STTP	MCA	Dr.R.S.Jadon	4,40,000
13.	UGC	Institute	Prabhakar Sharma	64,00,000
14.	GOC/UGC	Institute	Dr R K Pandit	21,45,000
<b>TOTAL</b>				<b>5,48,11,613</b>

**RPS Proposals Submitted under NDF-RPS Scheme of AICTE (2019)**

1.	RPS-NDF	CSE	Dr. Manish Dixit	11,60,000
2.	RPS-NDF	CSE	Dr.Sanjiv Sharma	14,50,000
3.	RPS-NDF	Mechanical	Dr.M.K.Sagar Dr.M.K.Gaur	21,25,000.00
4.	RPS-NDF	Architecture	Dr. R. K. Pandit	24,90,200.00
5.	RPS-NDF	Mechanical	Dr. M.K. Gaur	25,00,000.00

**CRS PROPOSALS SUBMITTED UNDER TEQIP-III MAY – 2019**

S.no.	Title of the proposal	PI	Dept	Budget
1.	Pedestrian Friendly Street Planning in and around Heritage Urban Centre	Almas Siddiqui	Civil Engineering	24,50,000/-
2.	Urban Heat island and climate change: A study in Gwalior	Chetan Sharma	Civil Engineering	1245000/-
3.	Quantification of the effect of Land use Land cover and Climate change on water availability in Sabarmati River basin	NupurVerma	Civil Engineering	1890000/-
4.	Assessment of the river navigation in Chambal river	Chetan Sharma	Civil Engineering	1405000/-
5.	Performance enhancement of unpaved roads using recyclable waste	Pratibha Singh	Civil Engineering	2275000/-

6.	Development of graphical approach to estimate trap efficiency	SourabhKakani	Civil Engineering	1300000/-
7.	Nonlinear Mechanics of Elasto-Flexible Cables using Placement Model	Dr. Pankaj Kumar	Civil Engineering	1115000/-
8.	Development of low cost water purification system using pervious concrete interlocking blocks	Nishi Gangwar	Civil Engineering	2090000/-
9.	Pedestrian Friendly Street Planning in and around Heritage Urban Centre	Almas Siddiqui	Civil Engineering	24,50,000/-
10.	Smart energy management system for optimal economic operation of microgrid	Prof Bhavna Rathore	Electrical Engineering	1815000/-
11.	Impact of renewable energy source integration on power system inertia:challenges and solutions	Prof Bhavna Rathore	Electrical Engineering	1815000/-
12.	Health monitoring with energy conservation of ring frame 3 phase induction motor (RFTPIM) in textile industries using soft computing techniques	Prof. Sourabh Kumar Rajput	Electrical Engineering	1950000/-
13.	Design and development of microgrid with proper energy management and control	Prof. AprajitaKumari	Electrical Engineering	1730925/-
14.	Medical Applications of Computational Fluid Dynamics in the human Nasal Cavity	Punjan Dohare	Electrical Engineering	1875000/-
15.	The three-dimensional approach in joint replacement technique to aid the orthopaedic surgeons	Punjan Dohare	Electrical Engineering	17,00,055/-
16.	Synergic App Framework for Analysis and Detection of Information Leakage in Smartphones Applications	Mr. Rati Bhan	CSE and IT	13,00,000/-
17.	An Intelligent Face Recognition framework for real-time surveillance	Mr. Rati Bhan	CSE and IT	18,10,000/-
18.	Compound Druggability Prediction for Stress Response target Protein using Physicochemical Propertie sand Machine Learning Approach	Arun Kumar	CSE and IT	19,50,000/-
19.	Design and Analysis of miniaturised ultra wideband antenna with enhanced bandwidth and gain	Santosh Sharma	Electronics Engineering	17,00000/-
20.	Stabilizing mechanism for tremors in arms and hands	Praveen kumar	Electronics Engineering	547500/-
21.	Design and Development of Portable Gnathodynamometer	Assistant Professor Mr Neeraj Mishra (MITS, Gwalior)	Mechanical Engineering	19,22,500/-
22.	3D Modelling & Finite Element Analysis of Bio structure from CT Scan	Assistant Professor	Mechanical Engineering	25,00000/-

	& MRI Data	Dr Dharmendra Jain (MITS, Gwalior)		
23.	Development of Aerial Robot for Cleaning of Solar Panels	Assistant Professor, Mr Manish Sharma (MITS, Gwalior))	Mechanical Engineering	18,33,350/-
24.	Experimental Design and Optimization of ceramic membranes for wastewater treatment	Sulochana Nagar	Chemical Engineering	23,00000 /-
25.	Deciphering the comprehensive metabolic profiling from plant cell cultures of Pennisetumglaucum	Dr. Radhika, R MITS, Gwalior – 474 005, M.P.	Biotechnology	25,00,000/-
26.	Analysis and control of noise pollution in hospitals	Dr. Naresh Kumar Raghuwanshi	Mechanical Engineering	2500000/-
27.	Performance Enhancement of solar Distillation systemsusing nanoparticles	Dr Amrat Kumar Dhamneya	Mechanical Engineering	25 Lakh
28.	Effect of hydrogen on aluminium 7XXX alloy series	Mr. Kapil	Mechanical Engineering	12 Lakh
29.	Investigation of Fire Retardation of Various Solar Cell Materials	Dr. Ravi Kant Ranjan	Mechanical Engineering	2164425/-
30.	Performance Enhancement of solar Distillation systemsusing nanoparticles	Dr Amrat Kumar Dhamneya	Mechanical Engineering	2500000/-
31	Cognitive Literary Studies for the Progress of Computational Cognitive Modelling	Dr Valuiur Rehaman	Dept of Humanities	1440,000/-
32	Cost effective and environment benign production of value added products by Structured Electro catalyst	ArtiSahu	Chemical Engineering	22,22,000/-
33	Design and Analysis of Shunt Active Power filters using Multilevel Inverters for Solar PV Grid Integration	Nipun Gupta	Electrical Engineering	1499000/-
<b>TOTAL</b>				<b>6,14,94,755</b>

<b>Item-10</b>	<p><b>To review the functioning of the Institute MOODLE</b></p> <p>➤ The house reviewed the following status of MOODLE working in the Institute and appreciated the monitoring procedure through MOODLE:</p> <p>✦ The Institute MOODLE is working very effectively and is being used for monitoring 10 different routine academic and the report is enclosed</p> <ol style="list-style-type: none"> <li>1. Subject Code with Subject name</li> <li>2. Attendance</li> <li>3. COs</li> </ol>
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4. Syllabus
5. Lecture Plan
6. Question Bank
7. Course files (PPT, Lecture Notes ,Study material, Reference books , Unit wise Quiz and Assignment) Unit -1 , Unit- 2, Unit -N
8. Quiz
9. Assignments
10. Feedback

✦ In addition to this feedbacks on course outcomes, question paper, Faculty satisfaction survey, uploading of solutions of question papers are some other important academic activities which are being facilitated by the MOODLE. Faculty is also communicating with the students by sending notices through the MOODLE.

**Item-11 To apprise the House about the Value Added Courses Conducted by Departments**

➤ The house was apprised about the Value Aided Courses conducted by different departments for the first time, The **Value Added Courses** were conducted by the Institute, in-house, on trial basis, for enhancing skills and employability of the students. Modules were prepared by the faculty and minimum 30 hours classes were conducted on Saturdays and after college hours on working days.

The details of the Value-Added courses are as follows:

S. No.	Name of the course	Department	Name of Faculty	Total Registrations
1.	Android App Development	CSE & IT	Prof. Modigari Naren	10
2.	Programming with Python	CSE & IT	Prof. Ram Parvesh	10
3.	C++ Programming	CSE & IT	Prof. Sheo Kumar	17
4.	Nano Technology For Engineering Application	Chemical Engineering	Prof. Sachin R Geed	09
5.	Life Skill for Engineer	Biotech	Prof. Vishal Kumar Ranjan	04
6.	Discover Creativity for Engineer	Biotech	Prof. Vishal Kumar Ranjan	09
7.	MATLAB for Engineers	Electrical Engineering	Prof. Vishal Chaudhary	12

**Item-12 To apprise the House about the in-house summer internship programme (SIP) for I year & II year Students**

➤ The house was appraised about the status of summer-internship programme, the house reviewed the following status of SIP:

✦ Last year during **June 2018**, the in-house SIP was launched for the first time. The response and feedback was very good. Total 42 modules were offered out of which 36 were offered according to student demand. The summary is-

S.No.	Department	Module Coordinator	Module Name	Students	Score (Out of 5)
1	Applied Science	Dr.Prachi Sharma	3-D Scientific Photography	6	4.51
2	CSE/IT	Prof.Mahesh Parmar	Android Application Development	25	4.26
3	MCA	Prof.Parul Saxena	Animation Creation	15	3.96

4	Chemical Engineering	Prof.S.R	Application of measuring devices in chemical process industries	9	4.92
5	EDC	Er.Satish Sharma	Basics of Refrigeration and Air Conditioning	5	4.2
6	Biotechnology	Dr.Pragyan Ranjan Rout	Bio-monitoring of water quality	1	4.22
7	Civil Engineering	Prof.Pratibha Singh	Building Elements- Model Making	13	4.23
8	Civil Engineering	Prof.Shivendra Singh Kushwah	Civil Engineering Structures Model Making	24	4.63
9	EDC	Mr.Akshat Agrawal	Computer Fundamentals with Web Concepts	8	4.47
10	CSE/IT	Prof.Dheeraj Gurjar	Computer Hardware & Networking	20	3.79
11	Mechanical Engineering	Dr.Amit Ahirwar	Conventional machine	17	4.31
12	Electrical Engineering	Prof.Kuldeep Swarnkar & Prof.Praveen Bansal	Designing and Modelling of Electrical Components	17	3.81
13	Electrical Engineering	Dr.Modem Sudhakar	Designing and Modelling of Electronics Components	5	4.17
14	Electronics Engineering	Prof.Awadesh Gupta	Digital Circuit Design	17	3.87
15	Mechanical Engineering	Prof.Vaibhav Shivhare	Dismantling & assembling of two strokes & four Stroke Engine.	22	4.12
16	Electronics Engineering	Prof.Rishab Shukla	Electrical Circuit Design Using LT-Spice	8	4.38
17	Electrical Engineering	Prof.Vishal Chaudhary	Electricity usage for Domestic and Industrial application	18	3.32
18	EDC	Dr.Prabhakar S. Bhadhoria	Entrepreneurship Awareness Program	3	4.4
19	CSE/IT	Prof.Abhilash Sonkar	Google Services	30	4.4
20	MCA	Dr.Anshu Chaturvedi	Graphic Design	19	4.03
21	Mechanical Engineering	Prof.Utkarsh Srivastava	Introduction to Auto CAD for Engineering Application	22	4.1
22	Electrical Engineering	Prof. Punjan Dohare	Introduction to MATLAB programming for Engineering applications	28	3.79
23	Electronics Engineering	Dr.Ashish Gupta	MATLAB	25	4.28
24	Mechanical Engineering	Prof.Ajay Rajput	Mechanical Testing and Measurement	16	4.11
25	CSE/IT	Prof.Vikas Sejwar	Microprocessor & Interfacing Techniques	16	4.04
26	Electronics Engineering	Dr.Rahul Dubey	O.S. Installation & Networking	18	3.73
27	Electronics Engineering	Dr.Vikas Mahor	PCB Designing & Circuit Wizard	27	4.48
28	CSE/IT	Prof.Shoe Kumar	Problem Solving Through Programming	27	3.83
29	Mechanical Engineering	Dr.Dharmanedra Jain	Repair and maintenance of a vehicle.	29	4.03
30	Civil Engineering	Prof.Shivam Gupta	Surveying using Total Station and Conventional methods	21	4.33
31	Electronics Engineering	Dr.Sarthak Singhal	TV & Motherboard	7	3.93
32	CSE/IT	Prof.Amit Manjhar	User Interface Design	20	3.31
33	Chemical Engineering	Dr.Shailendra Kumar Pandey	Utility of Heat transfer in process industry	4	3.72
34	MCA	Prof.Ram Pathak	Web Designing	29	4.11
35	Civil Engineering	Prof.Nupur Verma	Working Model of Water Harvesting System	16	4.34

## Internship Module Developed For June 2019

✚ This Year 51 Modules were developed out of which 29 will be offered

Module Number	Module faculty coordinator	Module Name
<b>Faculty coordinator : Electrical Engineering department : Prof.RakeshNarvey &amp; Prof.Himmat Singh</b>		
1.	Prof. Nipun Gupta	Designing and modeling of Electrical Components
	Prof. TarunShrivastava	
2.	Prof. G K Naveen Kumar	Designing and modeling of Electronics Components
	Prof. ShailendraPratap Singh	
3.	Prof.PunjanDohare	Introduction to MATLAB programming for Engineering applications
	Prof. Rahul Sagwal	
4.	Prof.AprajitaKumari	Electricity usage for Domestic and Industrial application
	Prof. ShwetaKumari	
5.	Dr. Vikram	Hands on Training on Signal/ Image Processing Toolbox in MATLAB
	Prof. Bhavnarathore	
6.	Prof. SaurabhK.Rajput	Introduction to Solar Photovoltaic and application of power Electronics switches in Solar Inverter
	Prof. Manoj Kumar	
<b>Faculty coordinator : Civil Engineering department: Prof. Deepak Rastogi</b>		
7.	Prof. Shivam Gupta & Prof. SauravKakani	Use of Modern Surveying Techniques in Survey Works
8.	Prof. NupurVerma& Prof. Nishi Gangwar	In-house Testing of Engineering Materials
9.	Prof. Pratibha Singh and Prof. Shivendra Singh Kushwaha	Understanding of Building and Structural Elements through Model Making
10.	Prof. Almas Siddiqui& Prof. Chetan Sharma	Developing Concepts of Smart Village through Model
11.	Dr. Sanjay Tiwari& Dr. Pankaj Kumar	Learning of Computational methods in Civil engineering using MATLAB
12.	Prof. MohitAggarwal& Prof. Shashank Sharma	Plumbing Work
<b>Faculty coordinator : Mechanical Engineering Department: Dr.AmitAhirwar &amp; Prof.Vaibhav Shivhare</b>		
13.	Prof. KapilTyagiv&	Conventional machine
	Prof. KostubhKhot	
	Mr. Bharat sakwar (for hands on training in workshop)	
14.	Dr. Dharmendra Jain	Dismantling & assembling of two strokes & four Stroke Engine.
	Prof. K.K. Yadav	
15.	Prof. Shubhamshrivastav&	Repair and maintenance of a vehicle.
	Prof. Sumit Singh	
16.	Prof. Utkarsh&shrivastava	Introduction to Auto CAD for Engineering Applications
	Prof. DhruvMaggu	
17.	Prof. Ajay Rajput &	Mechanical Testing and Measurement
	Dr. NareshRaghuwanshi	

<b>Faculty coordinator : Electronics Engineering Department : Prof.Deepak Batham &amp; Prof.Arun Chauhan</b>		
18.	Dr. VikasMahor and Prof. RakeshNaik	Training on PCB Designing & Circuit Wizard
19.	Dr. Ashish Gupta, and Prof. Deepak Batham	Training on MATLAB
20.	Prof. ArunaChauhan, and Prof. Santosh Sharma	Training on Digital Circuit Design
21.	Prof. ChaitanyaDhopte, and Prof. ArpitaSinghal	Training on Electrical Circuit Design using LT-Spice
22.	Prof. Praveen Kumar Singh	Training on Electronics Measuring Instruments
23.	Prof. Saurabh Singh Raghuvanshi	Python for Engineers
<b>Faculty coordinator : CSE &amp; IT Department : Prof.Vikas Sejwar &amp; Prof. Abhilash Sonkar</b>		
24.	Mr. LavUpadhyay	Front End Web Developer
25.	Mr. DheerajGurjar	Computer Hardware & Networking
26.	Ms. PoojaAgrawal	Internet of Things (IoT)
27.	Ms. ShivangiGarg	Relational Database Using SQL
28.	Mr. Sheo Kumar	Problem Solving Through Programming
29.	Mr. Mir Shahnawaz Ahmad	Python Programming With Applications To Machine Learning
30.	Mr. Mahesh Parmar	Android Based Application Development.
31.	Mr. VikasSejwar	Microprocessor & Interfacing Techniques
32.	Mr. AbhilashSonkar	Google Services
<b>Faculty coordinator : Chemical Engineering department : Prof. Sulochana Nagar</b>		
33.	Prof. ArtiSahu & Prof. Sulochana Nagar	Utility of Heat Transfer in Process Industry
34.	Prof. Sachin R. Geed & Dr. KulbhushanSamal	Application of Environmental Biotechnology in Chemical Engineering
35.	Dr. Antaram N. Sarve	Introduction to Analytical Instruments
<b>Faculty coordinator : Biotech Department : Dr. Sunita Sharma</b>		
36.	Dr. Sunita Sharma & Prof. Vishal Ranjan	Comparison of water quality collected from public place with the standard water quality parameters
37.	Prof. Rahul Anand	Basic tools of Molecular Modelling
38.	Prof. Vinod Kumar Jatav	Basics of Bioinformatics
39.	Dr. Radhika, R. and Prof. ShikhaJha	Commercial Plant Cell and Tissue Culture Techniques: A biotechnological tool for the conservation of natural resources
<b>Faculty coordinator : Applied Science department : Dr. Prachi Sharma</b>		
40.	Dr. Anjula Gaur	Detection and identification of contaminants using uv spectroscopy.
41.	Dr. HansnathTiwari	Analysis of Mixtures by using the Chromatographic Technique.
42.	Dr. Prachi Sharma	Laser Technology
43.	Prof. Deobrat Singh	Nano structured transition metal oxides for photo catalytic applications
44.	Dr. Ashish Verma & Prof. Jitendra Muthale	Statistical Methods



45.	Prof. Angad Singh Ojha & Dr. Ashish Verma	Abstract Algebra
<b>Faculty coordinator : Entrepreneurship Development cell : Prof.Prabhkar Sharma</b>		
46.	Dr.Prabhakar Singh Bhadouria (EDC)	Entrepreneurship Awareness Programme
47.	Mr.AkshatAgrawal (EDC)	Computer Fundamentals with Web Concepts
48.	Er.Satish Sharma (EDC)	Basics of Refrigeration and Air Conditioning (RAC)
<b>Faculty coordinator : Department of Architecture : Dr.S.S. Jadon</b>		
49.	Ar.Priya Gupta	Earth Workshop(Raw and Rammed earth)
50.	Ar.ShefaliYadav	Bamboo Workshop(Geodesic dome)
51.	Ar.ShefaliYadav	Regenerative use of Scrap materials through sustainable approach.

- The house recognized the efforts made by the departments for the development of SIP modules for better employability.

**Item-13** **To apprise the House about the approval for conduction of the MBA programme**

- The house was appraised about the approval of MBA from AICTE, as AICTE, on 30<sup>th</sup> April 2019, has issued the Approval for the New Management Program i.e. Masters in Business Administration (MBA).
- The MBA program will run in affiliation with Jiwaji University Gwalior and the admissions for 2019-2020 batch will start w.e.f. June 2019 for an intake of 60 seats through online off campus counselling by DTE, Bhopal.

**Item-14** **To apprise the House about the Gender & Social Equity initiatives and discuss measures for further improvement**

- The house reviewed the implementation of strict policy in Institute on equity and constant monitoring through student feedback and formal/informal meetings is in practice.
- The house appreciated the Institute efforts on the Implementation of EAP as Institute success story addressing the Social Inequalities was selected to present in two days National Conference on "Equity: Achievements and Challenges in India" on behalf of NPIU under TEQIP-III. The conference was organised by Directorate of Technical Education Maharashtra State on 15-16<sup>th</sup> March, 2019 at College of Engineering, Pune, Maharashtra. Total six success stories addressing the Social Inequalities were selected by NPIU out of 141 different institutions participating in TEQIP-III.

**Item-15** **To apprise the House about the initiatives taken for inculcating ethical behaviour and moral values in students & faculty**

The house was appraised about the use of Turnitin software in the Institute as institute has recently procured Turnitin software for checking plagiarism of UG major project reports/P.G.dissertations/ Ph.D. thesis/papers communicated by the faculty and students to journals and conferences. It is mandatory for all UG & PG students to check their reports and enclose the "plag report" along with their final submissions. "Plagiarism Check Norms" are under preparation.

**Item-16** **To appraise the house about the students performance in December 2018 examination:**

- The house reviewed the following status of students performance in the December 2018 examination and suggested to motivate the students to attend the remedial classes organized by the departments for weaker students in specific subject:

**B.E. /B.Tech./M.E./M.Tech./MUP/MCA Semester wise Result Analysis Report**

**December – 2018 Examination**

Course Name		Appeared	Pass	Percentage
B.Tech. (I <sup>st</sup> Year)	Semester : 1	1022	723	71%
B.Tech. (II <sup>nd</sup> Year)	Semester : 3	916	696	76%

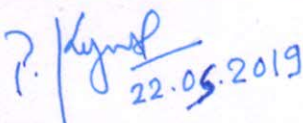
B.E. (III <sup>rd</sup> Year)	Semester : 5	855	789	84%
B.E. (IV <sup>th</sup> Year)	Semester : 7	855	789	92%
B.Arch. (I <sup>st</sup> Year)	Semester : 1	39	29	74%
B.Arch. (II <sup>nd</sup> Year)	Semester : 3	41	37	90%
B.Arch. (III <sup>rd</sup> Year)	Semester : 5	39	38	97%
B.Arch. (IV <sup>th</sup> Year)	Semester : 7	29	29	100%
B.Arch. (Final Year)	Semester : 9	40	40	100%
M.E. (I <sup>st</sup> Year)	Semester : 1	66	30	45%
M.E. (II <sup>nd</sup> Year)	Semester : 3	55	39	71%
M.TECH. (I <sup>st</sup> Year)	Semester : 1	68	40	59%
M.TECH. (II <sup>nd</sup> Year)	Semester : 3	71	64	90%
MUP (I <sup>st</sup> Year)	Semester : 1	19	17	89%
MUP (II <sup>nd</sup> Year)	Semester : 3	15	13	86%
MCA (I <sup>st</sup> Year)	Semester : 1	43	17	39%
MCA (II <sup>nd</sup> Year)	Semester : 3	78	52	66%
MCA (III <sup>rd</sup> Year)	Semester : 5	61	51	83%

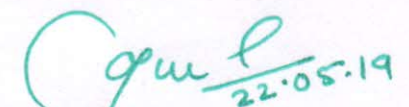
### ACADEMIC PERFORMANCE INDEX IN II YEAR

Mean of CGPA of all successful students who proceeded to III year (m)	Total number of successful students who proceeded to III year (n)	Total number of students who appeared in Examination in II year (2017-18 batch/CAYm1) (p)	Academic Performance Index [(m/p)*n]
7.09	926 (including lateral entry admitted students)	938 (including lateral entry admitted students)	6.99 OR 7.00

#### Item-17 Any other matter with the permission of the Chair

- The house welcomed the following new members of IQAC:
  - Mr. Yatindra Kumar Shrivastava, Industrialist & Employer Member of IQAC
  - Mr. Rajnesh Khosla, Employer Member of IQAC
- Dr. Manjaree Pandit, Dean Academic & Member of IQAC informed about the status of BOS meeting conducted in various departments and next Academic Council meeting will be held on 01.06.2019. A brief agenda of next Academic Council meeting was also discussed.

  
 (Dr. Pratesh Jayaswal)  
 Coordinator-IQAC

  
 (Dr. R. K. Pandit)  
 Director