भारतीय प्रौद्योगिकी संस्थान रूड़की रूड़की — 247 667 (भारत) INDIAN INSTITUTE OF TECHNOLOGY ROORKEE ROORKEE - 247 667 (INDIA)



सीनेट की इक्यासीवीं बैठक हेतु कार्य सूची AGENDA FOR THE 81st MEETING OF THE SENATE

बैठक सं0

: इक्यासीवीं

MEETING NO.

: 81st

स्थान

: सीनेट हॉल, भा0प्रौ0सं0 रूड़की

VENUE

: Senate Hall, IIT Roorkee

दिनांक

: 08 जनवरी 2020

DATE

: 8th January 2020

समय

: 3.30 बजे अपरान्ह

TIME

: 3.30 P.M.

भारतीय प्रौद्योगिकी संस्थान रूड़की INDIAN INSTITUTE OF TECHNOLOGY ROORKEE रूड़की 247 667 ROORKEE – 247 667



कार्यसूची / A G E N D A

मुद्दा सं0 / Item No.	विवरण / Particulars	पृष्ठ / Page(s)
81.1	सीनेट की दिनांक 26.09.2019 को आयोजित हुई 80वी बैठक के कार्यवृत्त की पुष्टि करना। To confirm the minutes of the 80 th meeting of the Senate held on 26.09.2019	1-2
81.2	सीनेट की दिनांक 26.09.2019 को आयोजित हुई 80वी बैठक में लिए गए निर्णयों के कियान्वयन हेतु की गई कार्रवाई को रिपोर्ट करना। To report on the actions taken to implement the decisions of the Senate taken in its 80 th meeting held on 26.09.2019.	3-6
81.3	बीoटेकo/आईडीडी/आईएमएस/आईएमटी में एक केंडिट पाठयकम को दोहराने के प्रावधान का सूत्रपात करने के प्रस्ताव पर विचार करना। To consider the proposal to introduce a provision for repeating a credit course in B.Tech./IDD/IMS/IMT.	7
81.4	एमटेक विषय के निम्नलिखित कोर्स संरचना को संशोधित करने के लिए विद्युत विभाग के प्रस्ताव पर विचार करनाः 1. सिस्टम और कंट्रोल 2. इंस्ट्रुमेंटेशन और सिगनल प्रोसेसिंग 3. पावर सिस्टम इंजीनियरिंग 4. इलेक्ट्रिक ड्राइव और पावर इलेक्ट्रॉनिक्स To consider the proposal of Department of Electrical Engineering to modify the course structure of following specializations of M.Tech.: 1. System and Control 2. Instrumentation and Signal Processing 3. Power System Engineering 4. Electric Drives and Power Electronics	8-23

81.5	दस्तावेजो को प्रस्तुत नही करने के कारण नाम बहाली के लिए छात्रों के अनुरोधों पर विचार करना। To consider the requests of the students for name	24
	restoration due to non-submission of documents.	
81.6	स्व-अध्ययन पाठयकमों पर यूजी विनियमन को संशोधित करने के प्रस्ताव पर विचार करना। To consider the proposal to revise the UG regulation on self-study courses.	25
81.7	सीजीपीए मानदंड के संदर्भ में अल्प विशेषज्ञता पाठयकमों पर नियमन में प्रस्तावित संशोधन पर विचार करना। To consider the proposed revision in the regulation on minor specialization courses in terms of CGPA criteria.	26
81.8	प्रबंधन में अल्प विशेषज्ञता पाठयक्रम के प्रारम्भ करने के लिए प्रबंधन विभाग के प्रस्ताव पर विचार करना। To consider the proposal of Department of Management Studies to offer minor specialization courses in Management.	27-28
81.9	विस्तृत व्यवसायिक अनुभव योजना के अन्तर्गत पीएचडी प्रोग्राम में भर्ती अभ्यर्थियो को दिए गए प्रवेश को रिपोर्ट करना To report the admission given to the candidates admitted in Ph.D. Programmes under the Extensive Professional Experience Scheme.	29-30
81.10	छात्र को दीक्षांत समारोह 2019 में प्रदान की गई दोहरी डिग्री (एमटेक प्लस पीएचडी) के प्रारूप को रिपोर्ट करना और उत्तरवर्ती दीक्षांत समारोहों के लिए पूर्वकथित प्रारूप पर विचार करना। To report the format of Degrees awarded to a Dual Degree (M.Tech. + Ph.D.) student in Convocation 2019 and to consider the same for subsequent Convocations.	31-33
81.11	विभिन्न पाठ्यकमों में 25 सितम्बर 2019 से अब तक पी०एच०डी० उपाधि प्राप्त करने की अईता वाले छात्रों को अनंतिम पी०एच०डी० उपाधि प्रदान करने की पुष्टि करना। To ratify the award of provisional Ph.D. Degree certificates to the students who have completed the requirements for the award of Ph.D. Degree in various disciplines from 25th September 2019 to date.	34-37

अन्य मद अध्यक्ष की अनुमति से/Under any item with the permission of the Chair.

Item No. 81.1: To confirm the minutes of the 80th meeting of the Senate held on 26.09.2019.

The minutes of the 80th meeting of the Senate held on 26.09.2019 were circulated to the members vide e-mail dated 24.10.2019 with subsequent corrigendum No. IITR/MS/80th Senate/128 dated 11th November 2019, given in **Appendix-A.**

No comments have been received.

The Senate may consider confirming the said minutes.

बैठक अनुभाग

MEETING SECTION

भारतीय प्रौद्योगिकी संस्थान रूडकी

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

सं0 भा0प्रौ0सं0रू0/एमएस/80 सीनेट/ No. IITR/MS/80th Senate/ 128

दिनांक 11 नवम्बर 2019 Dated 11th November 2019

In continuation to this Office e-mail dated 24.10.2019 enclosing therewith the Minutes of the 80th Senate meeting held on 26.09.2019, the minutes of Item No. 80.4 for Category A,B and D of the said meeting be read as under:

CORRI	GENDUM
NOTIFIED AS	READ AS
Category-A: Approved the requests with effect from the Spring Semester of 2019-20. Warning be issued to the students with a copy to their parents.	Category-A: Approved the requests. Warning be issued to the students with intimation to their parents.
Category-B: Not approved.	Category-B: Not approved.
Category-D: Not approved.	Category-D: Requests for continuation of programme in Autumn Semester 2019-20 are not approved. Name restoration with effect from Spring Semester 2019-20 is approved.

प्रशान्त गर्ग प्रशान्त गर्ग

Prashant Garg कुलसचिव एवं सचिव सीनेट

Registrar & Secretary, Senate

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11/11/19

The minutes of the 80^{th} Senate meeting held on 26.09.2019 were circulated to the members vide e-mail dated 24.10.2019. The status of actions taken is as under:

Item No.	Reference to the Senate minutes	Abstract of the Minutes	Status of action taken
80.3	Revised criteria and process for termination of Enrolment- On Academic Grounds.	The Senate approved the criteria and process for termination of Enrolment - On Academic Grounds.	Notified.
80.4	Requests of some students regarding continuation of programme in spite of not fulfilling minimum earned credits/extension beyond permissible limit/ attendance waiver/ name restoration.	the Spring Semester of 2019-20. Warning be issued to the students with a copy to their parents.	Notified.
80.5	Request of Mr. Girendra Singh, IDD (MT), (Enr. No.12118026) for award of degree on the basis of completion of credits.	The Senate approved the request.	Awarded.

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80.6	students who have qualified for the award of degrees/diploma in various disciplines/courses for the	to 2029 students who have duly qualified for the	Awarded.
80.7	session 2018-19. Awards/Medals for 2019.	The Senate approved the same.	Awarded
80.8	Cut-off of 8.0 CGPA for the Department Gold Medal in B. Arch.	The Senate approved a threshold of 8.5 CGPA for the Department Gold Medal in any branch.	Awarded as per the approved cut off criterion.
80.9	Excellence in Doctoral Research Awards.	The Senate approved the following Excellence in Doctoral Research Awards 2019:	Awarded.
		Science Stream: 1. Dr. Pallavi Gupta, Enrolment No. 13925003, Centre of Nanotechnolog Category: Applied Research	
		Engineering Stream: 1. Dr. Dhiraj Raj, Enrolment No. 12917002, Department of Earthquake Engineering Category: Applied Research	
		2. Dr. Yogeshkumar Manibhai Makwara, Enrolment No. 15914013, Department of Electrical Engineering Category: Applied Research	
		Further decided that in future the title of the thesis and the name of the supervisor be also mentioned in the recommendations.	

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80.10	Request of Ph.D. students regarding extension in time beyond the maximum stipulated period for submission of Ph.D. thesis.	Mr. Seraj Ahmad's programme be reinstated. The Senate approved the requests for extensions upto 31.12.2019.	Notified.
80.11	Mercy appeals of Ph.D. students regarding reinstatement of name being struck off from Institute Roll.	The Senate accepted the mercy appeals and allowed reinstatement. All such students will register in the Spring Semester of 2019-2020. The current semester will be considered as withdrawn.	Notified.
80.12	Hiring of faculty at Centre of Excellence in Transportation system (CTRANS), Center of Excellence in Disaster Mitigation & Management (CoEDMM) and Centre for Nanotechnology.	The Senate considered and recommended the proposal to the Board of Governors for approval.	Recommendations approved by the Board in its 58 th meeting.
80.13	Constitution of Institute Academic Ethics Committee.	proposal to the Board of Governors for approval.	Recommendations approved by the Board in its 58 th meeting and notified.
80.16	Seat matrix w.r.t. Admission to Ph.D. Programmes (Spring Semester 2019-20).	The Senate approved the seat matrix for admission	All Departments/ Centres were informed by Admission Office.

80.17	Proposal to carry out an amendment in Academic Calendar of Autumn Semester 2019-20 i.e., Nov 02, 2019 (Saturday) as a teaching day instead of Oct 04, 2019 (Friday).	The Senate approved the proposal.	Notified.
80.18	Candidacy report of Mr. Sarvesh Kumar (En. No. 17919010), Ph.D. student of Department of Mathematics, for approval.	The Senate approved the recommendation of IRC.	Notified.

Item No. 81.3: To consider the proposal to introduce a provision for repeating a credit course in B.Tech./IDD/IMS/IMT.

Sometimes due to unforeseen circumstances, the grades of some students in one or two courses are not commensurate with the grades obtained in other courses. These students often wish to repeat the course(s) to improve the grades.

It is proposed to allow such students to repeat only one such course during the whole programme subject to following conditions:

- 1. Only the students with CGPA \geq 8.0 would be allowed to repeat a course.
- 2. The repeated courses would be marked 'RP' (Repeated) in the earlier semester and the transcript for the semester in which the course is retaken would show the new grade even if it is lower than the previous one.
- 3. The course cannot be taken as a self-study course.
- 4. The attendance requirement for lectures would be waived off.

The IAPC in its 74^{th} meeting held on 09.09.2019 recommended the proposal.

- Item No. 81.4: To consider the proposal of Department of Electrical Engineering to modify the course structure of following specializations of M.Tech.:
 - 1. System and Control
 - 2. Instrumentation and Signal Processing
 - 3. Power System Engineering
 - 4. Electric Drives and Power Electronics

In the revised structure, all Programme Electives are shifted to the second semester and core courses are shifted from the second semester to first semester (Appendix- A).

The IAPC in its 76^{th} meeting held on 07.11.2019 recommended the proposal.

Program Code:

28

Department:

EE

M.Tech. (Systems & Control)
Department of Electrical Engineering

Year:

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Teaching Scheme			Teaching Scheme				Contact Hours/Week			Relative Weight (%)				
S. No.	Subject Code	Course Title	Subject	Credits	L	Т	Р	Theory	Practical	CWS	PRS	MTE	ETE	PRE
		Semo	ester- I (A	utumi	n)			-						
1.	MAN-561	Mathematics	PCC	4	3	1	0	3	2	25	3-	25	50	-
2.	EEN-580	Advanced Linear Control Systems	PCC	4	3	1	2/2	3		15-30	20	15-25	30-40	-
3.	EEN-581	Intelligent Control Techniques	PCC	4	3	0	2	3	:-	10-25	25	15-25	30-40	-
4.	EEN-582	Advanced System Engineering	PCC	4	3	0	2	3	-	10-25	25	15-25	30-40	-
5.	EEN-583	Non Linear and Robust Control	PCC	4	3	1	0	3	+	20-35	-	20-30	40-50	-
		Total	Strong and Auran	20				100	-	(*	1	-	-	-
		Sem	nester-II (Spring	1)									
1.	EEN-xxx	Program Elective Course-I	PEC	4	=	-	-	-	2	=	-	-	-	-
2.	EEN-xxx	Program Elective Course-II	PEC	4	t.									
3.	EEN-xxx	Program Elective Course-III	PEC	4	-	-	-		-	(4)	170	-	-	-
4.	EEN-xxx	Program Elective Course-IV	PEC	4	=	20		1=	-	(4)	-	-	-	
5.	EEN-700	Seminar	SEM	2	-5	8/	*	-	-	-14	24	-	100	*
		Total		18				=	•		*	-	-	-

Program Code: Department:

28 EE

Year:

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M.Tech. (Systems & Control)
Department of Electrical Engineering

Teaching Scheme		Teaching Scheme	eaching Scheme		Contact Hours/Week		Exam Duration		Relative Weight (%)					
Note: Students can take 1	Course Title	Subject Area	Credits	L	т	Р	Theory	Practical	CWS	PRS	MTE	ETE	PRE	
		Semes	ster- I (Au	itumn)		-								-
1.		Dissertation Stage–I (to be continued next semester)	DIS	12	¥	*	2	-	<u>u</u> 5 ,	-			100	•
		Total		12										
Not	e: Students	s can take 1 or 2 audit courses as advised b	y the sup			requi	red.							
1,	EEN- 701B	Dissertation –II (contd. From III semester)	DIS	18	18	-	-		-	3	-	-	100	
		Total	3-1-2-1	18										

Summary				
Semester	1	2	3	4
Semester-wise Total Credits	20	18	12	18
Total Credits		6	8	D-16-

		Teaching Scheme				ontac urs/W	D. P.	Exa Durat		Rela	ative	Weigh	nt (%)	
S. No.	Subject Code	Course Title	Subject Area	Credits	L	Т	Р	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1.	EEN-680	Machine Learning	PEC	4	3	1	0	3	<u>.</u>	20-35		20-30	40-50	-
2.	EEN-681	Wide Area System Monitoring Control	PEC	4	3	1	0	3		20-35		20-30	40-50	
3.	EEN-682	Advanced Digital System Design	PEC	4	3	0	2	3		10-25	25	15-25	30-40	
4.	EEN-683	Introduction to Robotics	PEC	4	3	1	O	3	2	20-35	-	20-30	40-50	-
5.	EEN-684	System Reliability	PEC	4	3	1	0	3		20-35		20-30	40-50	
6.	EEN-685	Stochastic Systems	PEC	4	3	1	0	3	144	20-35	-	20-30	40-50	
7.	EEN-686	Optimal Control	PEC	4	3	1	0	3	:=	20-35	17	20-30	40-50	
8.	EEN-687	Operations Research	PEC	- 4	3	1	0	3	-	20-35	>≠≥	20-30	40-50	-
9.	EEN-688	Interval Control Systems	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
10.	EEN-689	Modeling and Simulation	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	
11,	EEN-690	Advanced Computer Controlled Systems	PEC	4	3	1	0	3		20-35	12	20-30	40-50	
12.	EEN-691	Data Structures	PEC	4	3	0	2	3		10-25	25	15-25	30-40	-
13.	EEN-692	Graph Theory and Applications	PEC	4	3	1	0	3	-	20-35	12	20-30	40-50	-
14.	EEN-693	Advanced Microprocessor and Applications	PEC	4	3	0	2	3	-	10-25	25	15-25	30-40	-
15	EEN-694	Advances in Model Order Reduction Techniques	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
16.	EEN-561	Power System Operation and Control	PEC	4	3	1	0	3	-	20-35	8	20-30	40-50	-
17.	EEN-667	Power System Reliability	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
18.	EEN-669	Power System Dynamics	PEC	4	3	1	0	3	3)	20-35	i s	20-30	40-50	-

19.	EEN-521	Digital Signal and Image Processing	PEC	4	3	0	2	3	100	10-25	25	15-25	30-40	-
20.	EEN-620	Process Instrumentation and Control	PEC	4	3	1	0	3		20-35	9	20-30	40-50	
21.	EEN-624	Telemetry and SCADA	PEC	4	3	1	0	3	-	20-35		20-30	40-50	
22.	EEN-626	Advances in Signal and Image Processing	PEC	4	3	1	0	3	N.	20-35	Ç+.	20-30	40-50	-
23.	EEN-611	FPGA Implementation of Signal Processing Systems	PEC	4	3	1	0	3	•	20-35	14	20-30	40-50	-
24.	EEN-612	Electrical Transients in Power Systems	PEC	4	3	1	0	3	-	20-35		20-30	40-50	-
25.	EEN-613	Sliding Mode Control and Observation	PEC	4	3	1	0	3	-	20-35		20-30	40-50	

Program Code: Department:

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M.Tech. (Instrumentation & Signal Processing)
Department of Electrical Engineering

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		Teaching Scheme			H	Contac		4	am ation	R	lelativ	e Wei	ght (%)
S. No.	Subject Code	Course Title	Subject Area	Credits	L	Т	Р	Theory	Practical	CWS	PRS	MTE	ETE	PRE
			Semester	- I (Aŭ	tumn)	L	l					- 17-4	<u> </u>	
1.	EEN-520	Advanced Industrial and Electronic Instrumentation	PCC	4	3	0	2	3	ş	10- 25	25	15- 25	30- 40	-
2.	EEN-521	Digital Signal and Image Processing	PCC	4	3	0	2	3	<u>.</u>	10 -25	25	15- 25	30- 40	-
3.	EEN-522	Biomedical Instrumentation	PCC	4	3	1	0	3	-	20- 35	72	20- 30	40- 50	-
4.	EEN-523	Instrumentation laboratory	PCC	2	0	0	4		•	-	50	-	7.5	50
5.	EEN-524	Intelligent Sensors and Instrumentation	PCC	4	3	0	2	3	-	10- 15	25	15- 25	30- 40	-
		Total	1	18	5	-	•	5.	-	3.	6	-	•	-
														-
	The second second		Semeste											
1.	EEN-700	Seminar	SEM		2	* =	727	9	173	-		-	100	-
2.	EEN-xxx	Program Elective Course-I	PEC	4	1	· 4	-	-	442	-		- -	-	-
3.	EEN-xxx	Program Elective Course-II	PEC		1 -	-	1.0	386	(F)	-			-	
4.	EEN-xxx	Program Elective Course-III	PEC	4	1 -	1 19	12	#	14	3		5 -	-	-
_	EEN-xxx	Program Elective Course-IV	PEC	-	4		-	·w	ANG.	-			-	1 -
5.	EE(1700)		and the second land	and lane	-	- V		1		1		_		

Program Code: Department: Year:

26 EE M.Tech. (Instrumentation & Signal Processing)
Department of Electrical Engineering

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	160	Teaching Scheme	5			onta urs/W	6002000	Ex: Dura	am ation	Re	lativ	e Wei	ight (%	%)
S. No.	Subject Code	Course Title	Subject	Credits	L	Т	Р	Theory	Practical	CWS	PRS	MTE	ETE	PRE
		Seme	ster- I (Au	ıtumn))									
1.	EEN- 701A	Dissertation Stage-I (to be continued next semester)	DIS	12	4.	Α.	-		-	-	6	-	100	-
		Total		12		-								

		Sem	ester-II (S	pring)	A Land Cont.									
1.	EEN- 701B	Dissertation Stage-II (contd. From III semester)	DIS	18	•	141	100	-	*	-	-	-	100	
		Total		18										

Summary				
Semester	1	2	3	4
Semester-wise Total Credits	18	18	12	18
Total Credits		6	6	lance and

		Teaching Scheme				onta irs/W		Ex Dura		Re	elativ	e Wei	ight (%	6)
S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	Р	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1.	EEN-620	Process Instrumentation and Control	PEC	4	3	1	0	3	-	20- 35	7#7	20- 30	40- 50	-
2.	EEN-621	Noise and Interference in Instrumentation	PEC	4	3	1	0	3	141	20- 35		20- 30	40- 50	-
3.	EEN-622	Power System Instrumentation	PEC	4	3	1	0	3	-	20- 35	-=	20- 30	40- 50	-
4.	EEN-623	Measurement Errors and Statistical Analysis	PEC	4	3	1	0	3		20- 35		20- 30	40- 50	
5.	EEN-624	Telemetry and SCADA	PEC	4	3	1	0	3) 	20- 35		20- 30	40- 50	-
6.	EEN-625	Virtual Instrumentation	PEC	4	3	1	0	3		20- 35	•	20- 30	40- 50	8
7.	EEN-626	Advances in Signal and Image Processing	PEC	4	3	1	0	3	34	20- 35	-	20- 30	40- 50	78
8.	EEN-627	Ultrasonic and Laser Instrumentation	PEC	4	3	1	0_	3	16	20- 35	#	20- 30	40- 50	•
9.	EEN-628	Medical Imaging	PEC	4	3	1	0	3	- 	20- 35	-	20- 30	40- 50	
10.	EEN-629	Bioelectric Signals and Processing	PEC	4	3	1	0	3	-	20- 35	÷	20- 30	40- 50	-
11.	EEN-630	Computer Applications in Medical Engineering	PEC	4	3	1	0	3	-	20- 35		20- 30	40- 50	-
12.	EEN-631	Microprocessor Based Medical Instruments	PEC	4	3	1	0	3	#	20- 35		20- 30	40- 50	-
13.	EEN-632	Hospital Informatics and safety Measures	PEC	4	3	1	0	3	-	20- 35	-	20- 30	40- 50	4
14.	EEN-633	Clinical Engineering	PEC	4	3	1	0	3	-	20- 35		20- 30	40- 50	

15.	EEN-668	Digital Protection of Power Systems	PEC	4	3	0	2	3	-	10-	25	15-	30-	-
										25		25	40	
16.	EEN-682	Advanced Digital System Design	PEC	4	3	0	2	3	-	10-	25	15-	30-	-
										25		25	40	
17.	EEN-690	Advanced Computer Controlled Systems	PEC	4	3	1	0	-3	-	20-		20-	40-	-
	4					a marak				35		30	50	
18.	EEN-611	FPGA Implementation of Signal Processing	PEC	4	3	1	0	3	-	20-	(=)	20-	40-	1.00
		Systems								35		30	50	
19.	EEN-614	Bio-Medical Robotics	PEC	4	3	1	2	3	1	10-	25	15-	30-	200
						Č.			j.	25		25	40	
20.	EEN-612	Electrical Transients in Power System	PEC	4	3	1	0	3	-	20-	-	20-	40-	
										35		30	50	
21.	EEN-613	Sliding Mode Control and Observation	PEC	4	3	1	0	3	-	20-		20-	40-	-
			F .							35		30	50	

17

DEPARTMENT OF ELECTRICAL ENGINEERING INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Program Code: Department: 27 EE M.Tech. (Power System Engineering) Department of Electrical Engineering

Year:

1

Department	Licotitoai	Litginge

		Teaching Scheme			1	ontac	-	Exa Dura	am ation		Rela	tive Weig	ht (%)	
S. No.	Subject Code	Course Title	Subject	Credits	L	Т	Р	Theory	Practical	CWS	PRS	MTE	ETE	PRE
		Sem	ester- I (A	Autun	in)								-	
1,	EEN-560	Computer Aided Power System Analysis	PCC	4	3	0	2	3	-	10-25	25	15-25	30-40	-
2.	EEN-561	Power System Operation and Control	PCC	4	3	1	0	3		20-35	-	20-30	40-50	-
3.	EEN-562	Distribution System Analysis and Operation	PCC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
4.	EEN-563	EHV AC Transmission Systems	PCC	4	3	1	0	3	-	20-35	.=	20-30	40-50	-
5.	EEN-564	HVDC Transmission Systems	PCC	4	3	1	0	3	-	20-35	- i-	20-30	40-50	-
		Total		20	-	-	=	7	-	-	-	-	-	-
		Sen	nester-II (Sprin	g)		A. 1911							
1.	EEN-564	Program Elective Course-I	PEC	4		*	14	-		e-	-	-	-	1
2.	EEN-700	Seminar	SEM	2	漢	-	-	-	12	12	-	-	100	-
3,	EEN-xxx	Program Elective Course-II	PEC	4	140	-	-		-	-	-	.17	-	-
4.	EEN-xxx	Program Elective Course-III	PEC	4	-	74	*	· 8	- E		-	-	-	-
	EEN-xxx	Program Elective Course-IV	PEC	4	(H	1	1-	-	-	-	-	-	-	-
5.														

Program Code: Department:

27 EE M.Tech. (Power System Engineering)
Department of Electrical Engineering

Year:

II

	the state of the state of	Teaching Scheme				Contac urs/W		Ex: Dura	am tion	R	elativ	e Wei	ght (%	a)
S. No.	Subject Code	Course Title	Subject	Credits	L	т	Р	Theory	Practical	CWS	PRS	MTE	ETE	PRE
	<u></u>	Semes	ter- I (Aut	umn)						l				
1.	EEN- 701A	Dissertation Stage-I (to be continued next semester)	DIS	12	-	-		,	×		-	-	100	-
		Total		12										
JOY	e: Students	can take 1 or 2 audit courses as advised by the	superviso	or, it rec	quirec			·	- t-					
		Seme	ster-II (Sp	ring)				1.10						
1.	EEN- 701B	Dissertation Stage–II (contd. From III semester)	ster-II (Sp	ring)	4	4		12	4		-		100	

Summary				
Semester	1	2	3	4
Semester-wise Total Credits	20	18	12	18
Total Credits	beautiful to	6	8	

				onta urs/V	ct Veek	Exam Duration		Relative Weight (%)						
S. No.	Subject Code	Course Title	Subject Area	Credits	L	Т	Р	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1.	EEN-660	High Voltage Technique	PEC	4	3	1	0	3	•	20-35	30	20-30	40-50	-
2,	EEN-661	Power System Planning	PEC	4	3	1	0	3	7	20-35		20-30	40-50	-
3.	EEN-662	Power System Harmonics	PEC	4	3	1	0	3	•	20-35	·#4	20-30	40-50	-
4.	EEN-663	Flexible AC Transmission Systems	PEC	4	3	1	0	3	•	20-35	-	20-30	40-50	-
5.	EEN-664	Wind Energy	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
6.	EEN-665	Relaying and Switchgear	PEC	4	3	1	0	3	-	20-35		20-30	40-50	-
7.	EEN-666	Distribution System Automation	PEC	4	3	1	0	3	à	20-35	105	20-30	40-50	
8.	EEN-667	Power System Reliability	PEC	4	3	1	0	3	1	20-35	d#	20-30	40-50	-
9.	EEN-668	Digital Protection of Power Systems	PEC	4	3	0	2	3	÷	10-25	25	15-25	30-40	-
10,	EEN-669	Power System Dynamics	PEC	4	3	1	0	3	8	20-35	8	20-30	40-50	-
11.	EEN-670	Substation Automation	PEC	4	3	1	0	3	3	20-35	-	20-30	40-50	•
12.	EEN-671	Power System Deregulation	PEC	4	3	1	0	3	5.	20-35	-	20-30	40-50	-
13.	EEN-521	Digital Signal and Image Processing	PEC	4	3	0	2	3	×	10-25	25	15-25	30-40	-
14.	EEN-540	Advanced Power Electronics	PCC	4	3	1	2/2	3	A:	15-30	20	15-25	30-40	
15.	EEN-543	FACTS Devices	PEC	4	3	1	0	3	5	20-35	-	20-30	40-50	-
16.	EEN-651	Power Quality Improvement Techniques	PEC	4	3	Q	2	3	9.	10-25	25	15-25	30-40	

17.	EEN-580	Advanced Linear Control Systems	PEC	4	3	1	2/2	3	7.	15-30	20	15-25	30-40	*
18.	EEN-583	Non Linear and Robust Control	PEC	.4	3	1	0	3	- E	20-35		20-30	40-50	-
19.	EEN-681	Wide Area System Monitoring Control	PEC:	4	3.	1	0	3	ĕ	20-35	5	20-30	40-50	16
20.	EEN-611	FPGA implementation of Signal Processing Systems.	PEC	4	3	1	0	3	-	20-35	9	20-30	40-50	7.
21.	EEN-612	Electrical Transients in Power Systems	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
22.	EEN-613	Sliding Mode Control and Observations	PEC	4	3	1	0	3	-	20-35	ā	20-30	40-50	-

DEPARTMENT OF ELECTRICAL ENGINEERING

M.Tech. (Electric Drives & Power Electronics) 71.13 dated 28.12.2017

	Tea	aching Scheme				Cont ours/	tact Week		am ation	Rela	ative	Weight (%)	
S. No.	Subject Code	Course Title	Subject Area	Credits	L	Т	Р	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1st	YEAR			Sem	este	r- I (/	Autumr	1)						101
1,-	EEN-580	Advanced Linear Control Systems	PCC	4	3	1	2/2	3	₽	15-30	20	15-25	30-40	
2.	EEN-540	Advanced Power Electronics	PCC	4	3	1	2/2	3	Ye.	15-30	20	15-25	30-40	181
3.	EEN-541	Analysis of Electrical Machines	PCC	4	3	0	2	3	ie.	10-25	25	15-25	30-40	ů.
4.	EEN-542	Power Electronic Controlled Electric Drives	PCC	4	3	1	2/2	3	-	15-30	20	15-25	30-40	12
5.	EEN-543	FACTS Devices	PCC	4	3	1	0	3	14	20-35	= 1	20-30	40-50	-
		Total		20				-		-				-
	S. O. S.		Se	meste	er-II (Spri	ng)	A TOTAL PROPERTY OF						-
1.	EEN-xxx	Program Elective Course-I	PEC	4	-		7	-		-	2	1/2:	144	18
2.	EEN-700	Seminar	SEM	2	(-)	yes	* [u		3 (1	ė,	2	100	:6:
3.	EEN-xxx	Program Elective Course-II	PEC	4	-	-	14	9	- 1	-	-			140
4.	EEN-xxx	Program Elective Course-III	PEC	4	-	-	4-	-	4	-	-	ω,		-
5.	EEN-xxx	Program Elective Course-IV	PEC	4								7		
		Total	-	18						7				
2 nd	YEAR		Semest	ter- I (Autı	ımn))		-		-		1-1-1-1	
1.	EEN-701A	Dissertation Stage–I (to be continued next semester)	DIS	12	-	-	-	÷	-	15	-		100	-
		Total		12		1								
Not	e: Students	can take 1 or 2 audit courses	as advi	sed b	y the	e su	perviso	r, if re	quire	d.	-			A
-	e de			neste										
1.	EEN-701B	Dissertation Stage–II (contd. From III semester)	DIS	18		-	-	-		•	-	4	100	-
1	- 110	Total		18	-						- 3			
		Total Credits		68										

Program Elective Courses (EDPE)

	-	Teaching Scheme			Co Hour k	ntad s/W		Exam Duration		Relative Weight (%)				
S. No.	Subjec t Code	Course Title	Subject Area	Credits	L	Т	P	Theory	Practical	CWS	PRS	MTE	ЕТЕ	PRE
1,	EEN-640	Advanced Electric Drives	PEC	4	3	0	2	3		10-25	25	15-25	30-40	- V
2.	EEN-641	Microcontroller and its Applications to Power Converters	PEC	4	3	0	2	3	-	10-25	25	15-25	30-40	4
3.	EEN-642	DSP Controlled Electric Drives	PEC	4	3	0	2	3	1 (2)	10-25	25	15-25	30-40	-
4.	EEN-643	Electric Drives for Hybrid Vehicles	PEC	4	3	1	0	3	-	20-35	184	20-30	40-50	-
5,	EEN-644	Design of Electric Drives	PEC	4	3	1	0	3		20-35	4	20-30	40-50	-
6.	EEN-645	Instrumentation in Electric Drives	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
7.	EEN-646	Drive System in Electric Traction	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	
8,	EEN-647	Control Techniques in Power Electronics for AC Drives	PEC	4	3	0	2	3		10-25	25	15-25	30-40	-
9,	EEN-648	Pulse Width Modulation for Power Converters	PEC	4	3	1	0	3		20-35	x	20-30	40-50	.,
10	EEN-649	Enhanced Power Quality AC-DC Converters	PEC	4	3	Q	2	3	4	10-25	25	15-25	30-40	160
11	EEN-650	Switch Mode Power Supply	PEC	4	3	1	0	3	14	20-35	· m	20-30	40-50	-
12	EEN-651	Power Quality Improvement Techniques	PEC	4	3	0	2	3	(44)	10-25	25	15-25	30-40	-
13	EEN-652	CAD of Power Apparatus	PEC	4	3	1	0	3	*	20-35	•	20-30	40-50	
14	EEN-653	Selected Topics in Machines and Transformers	PEC	4	3	0	2	3		10-25	25	15-25	30-40	-
15	EEN-654	Synchronous Machines and System Stability	PEC	4	3	1	0	3	+	20-35	-	20-30	40-50	-
16	EEN-655	Special Machines	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	- 2
17	EEN-656	Testing and Commissioning of Electrical Equipment	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	
18	EEN-564	HVDC Transmission Systems	PEC	4	3	1	0	3	,-	20-35	-	20-30	40-50	*
19	EEN-690	Advanced Computer Controlled Systems	PEC	4	3	1	0	3	7	20-35		20-30	40-50	-
20	EEN-657	Digital Control of Power Converters	PEC	4	3	1	0	3	L	20-35	-	20-30	40-50	-
21	EEN-658	Communication Techniques in Smart Grid	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
22	EEN-659	Control and Management of Smart Grid	PEC	4	3	1	0	3		20-35	-	20-30	40-50	
23	EEN-660	Power Converter Topologies in Smart Grid	PEC	4	3	1	0	3	-	20-35	÷	20-30	40-50	-

24	EEN-611	FPGA Implementation of Signal Processing Systems	PEC	4	3	1	0	3	-	20-35		20-30	40-50	
25	EEN-612	Electrical Transients in Power Systems	PEC	4	3	1	Q	3	-	20-35	-	20-30	40-50	-
26	EEN-613	Sliding Mode Control and Observation	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	•

Item No. 81.5: To consider the requests of the students for name restoration due to non-submission of documents.

S1. No.	Name	Details	Recommendations	Pending Documents
1.	Anargha Rakesh MBA (BM), I Yr (Enr. No. 19810003) (Request for name restoration)	-Name struck off vide O.M No./PG/NSO-Reg- 02/2019-20/812 dated Oct. 23, 2019		-PDC -Grade sheet
2.	Ajay Handa M.Sc. (MA), I Yr (Enr. No. 19616004) (Request for name restoration and semester withdrawal on medical ground)	-Health issue: Panic attack, anxiety disorder, breathing and high blood pressure -Name struck off vide O.M No./PG/NSO-Reg-02/2019-20/812 dated Oct. 23, 2019	Forwarded IAPC:	-Degree -PDC (submitted after last date)

The IAPC in its 76^{th} meeting held on 07.11.2019 considered the requests of above students.

Item No. 81.6: To consider the proposal to revise the UG regulation on self-study courses.

As per the existing regulation on self-study courses as mentioned below:

"The course can only be offered to a student in his/her final semester when he/she is likely to fall short by a maximum of 6 earned credits to become eligible for the award of degree."

The students do not get benefitted much with the existing regulation due to restriction of final semester and maximum number of 6 earned credits. The self-study course could provide opportunity to students to clear their course(s) well within time to avail better placement opportunities.

In order to enhance the effectiveness of the provision of self-study courses, the revision in the existing regulation was proposed as under:

- (i) Students to be allowed to take up the self-study courses in any semester.
- (ii) The maximum number of self-study courses to be increased to 2 (or 8 credits) instead of 6 credits.
- (iii) Any self-study course taken upto the pre-final semester can only be a repeat course.

The IAPC in its 77^{th} meeting held on 29.11.2019 recommended the proposal.

Item No. 81.7: To consider the proposed revision in the regulation on minor specialization courses in terms of CGPA criteria.

The existing regulation on minor specialization courses in terms of CGPA criteria is as under:

"The student with good academic standing (having CGPA≥7.5) desirous of excelling in some specialization in other than his/her own department may be allowed to take 4-5 additional courses equivalent to 18-20 credits from that specialization. These courses have been defined as Minor Specialization Courses (MSC). The courses from minor specialization may be taken from anyone engineering, science, humanities and management disciplines. These courses will have to be selected from a list of such courses (basket) offered by the departments, however, there will be a maximum limit to the seats. These students will be given degree in main engineering area with minor specialization in other area. For example, the degree certificate will indicate B.Tech. in Civil Engineering with Minor Specialization in Physics".

The cut off of CGPA as ≥ 7.5 restricts the interested students to opt for minor specialization in the courses of their interest. It is observed that CGPA in a particular program does not necessarily predict the student's acumen and potential to perform in the subject of their interest.

In view of above, the revision was proposed.

The IAPC in its 77th meeting held on 29.11.2019 recommended the proposal and suggested to waive off the CGPA criteria for Minor Specialization Courses. In addition, the IAPC also suggested to impose a limit on the number of students in each course.

Item No. 81.8: To consider the proposal of Department of Management Studies to offer minor specialization courses in Management.

The IAPC in its 77th meeting held on 29.11.2019 recommended the proposal **(Appendix-A)** with following modifications:

- 1. The range of courses for Minor Specialization Courses (MSCs) be amended as 4-6 courses while retaining the credit requirement 18-20.
- 2. Students interested in having Minor Specialization in Management will have to take 3 MSCs in the Autumn Semester of 4th year while for all other minor specializations the maximum number of MSCs in this semester will remain 2.

List of courses for Minor Specialization in Management

Semester	Course Code and Title (Credits)	Credit
Autumn	BM-503 Management Process and Organization Behavior (3)	3
Autumn	BM-505 Managerial Economics (3)	3
Autumn	BM-511 Marketing Management (3)	3
Spring	BM-504 Financial Management (3)	3
Spring	BM-506 Business Environment (3)	3
Spring	BM-512 Production and Operations Management (3)	3
Autumn	BM-601 Management Information System (2)	2

Item No. 81.9: To report the admission given to the candidates admitted in Ph.D. Programmes under the Extensive Professional Experience Scheme.

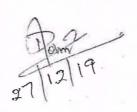
Senate in its 74th meeting vide item no.74.11 approved for Ph.D. admission towards senior professionals and decided that the candidates selected under this programme during the first one year be reported to the Senate.

Considering the profile of the candidates with respect to educational qualification, professional experience, present service status, research potential and scope towards carrying out research works, four professionals have been admitted during first one year (from 27 Sept. 2018 to 16 July 2019) under the Extensive Professional Experience Scheme. Details are given at **Appendix-A.**

The above is reported to the Senate.

List of Ph.D. students under Extensive Professional category with course list

Enroll No.	Name	Present Rank	Preset Designation	Organization	Years of Exp.	Date of Presentation	Date of Interaction	Deptt / Ctr Name	DoR	Name of Supervisor	Area of Research
19915015	HARPREET SINGH JATTANA	Scientist 'SG'	Group Head - Design and Process	Semi-Conductor Laboratory, Department of Space, ISRO, Chandigarh, Govt. of India	35 Years	26-Feb-19	16-Apr-19	ECE	1-Jul-19	Prof. Anand Bulusu (ECE), Prof. Sudeb Dasgupta (ECE)	Microelectronics
19920009	JAI PRAKASH KAMAL	Scientist 'G'	Group Director- CELICA, R&QA, SEED and Main Workshop	Terminal Ballistics Research Lab., DRDO, Chandigarh, Govt. of India	23 years	22-Mar-19	2.1-May-19	MIED	16-Jul-19	Prof. Abinash Kumar Swain (MIED)	Modelling and analysis of warheads and its subassemblies against hardened target
19922001	SUBHASH VERMA		Managing Director and VP Engineering	Agnity Communications Pvt. Ltd., New Delhi	30 years	22-Nov-18	18-Apr-19	DPT	23-Jun-19	Prof. S.C. Sharma (DPT)	Machine learning in loT based cloud applications
19907001	PRAVENDRA KUMAR	Scientist 'FI'	Additional Director	Terminal Ballistics Research Lab., DRDO, Chandigarh.	32 Years	15-Feb-19	20-Mar-19	CTRANS	5-Jul-19	Prof. Abinash Kumar Swain (Associated faculty, CTRANS), Prof. V.A. Sawant (CED)	Study of shock mitigation techniques for safety against blast loadings.



Item No. 80.10: To report the format of Degrees awarded to a Dual Degree (M.Tech. + Ph.D.) student in Convocation 2019 and to consider the same for subsequent Convocations.

A committee was constituted to formalize the degree format of the Dual Degree (M.Tech. + Ph.D.) programme. This was necessitated due to one student who was completing degree requirements in academic session 2018-2019. The committee had proposed the format of degrees (**Appendix-A**) and the Chairman Senate had approved the formats dated 30th September 2019 so that the degree can be awarded in Convocation 2019.

The above is reported to the Senate. Further, the same is placed before the Senate for consideration for subsequent Convocations.

भारतीय प्रौद्योगिकी संस्थान रुड्की

अभिषद् की अनुशंसा पर

सिविल अभियांत्रिकी में प्रौद्योगिकी निष्णात

की उपाधि प्रौद्योगिकी निष्णात-विद्या वाचस्पति द्वि उपाधि कार्यक्रम के अन्तर्गत

शशांक भातरा

को, जिन्होंने सम्मान सिहत प्रथम श्रेणी में इस उपाधि की अवाप्ति हेतु विनियम विहित अपेक्षाओं को सन् 2019 में सफलतापूर्वक पूरा कर लिया है, एतद्द्वारा प्रदान करता है। 10 अंकीय मापक्रम में इनका संचित कोटि अंक माध्य 9.053 है। भारतीय गणराज्य के अन्तर्गत रुड़की में आज, दिनांक अक्टूबर 4, 2019, संस्थान की मुद्रा अंकित यह उपाधि दी गई।

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

on the recommendation of the Senate hereby confers the degree of

Master of Technology in Civil Engineering

under the Master of Technology-Doctor of Philosophy Dual Degree Programme upon

SHASHANK BHATRA

who has successfully completed in the year 2019 the requirements prescribed under the regulations for the award of this degree in First Division with Distinction with a Cumulative Grade Point Average of 9.053 on a 10 point scale.

Given this day, October 4, 2019, under the seal of the Institute at Roorkee in the Republic of India.

कुलसचिव Registrar

अध्यक्ष, अभिषद् एवं निदेशक Chairman, Senate & Director

भारतीय प्रौद्योगिकी संस्थान रुड़की

अभिषद् की अनुशंसा पर विद्या वाचस्पति

की उपाधि प्रौद्योगिकी निष्णात-विद्या वाचस्पति द्वि उपाधि कार्यक्रम के अन्तर्गत

शशांक भातरा

को

शोध प्रबन्ध शीर्षक: आयन इम्प्लानटेशन एण्ड केमिकल मोडिफिकेशन ऑफ CuO नैनोपार्टिकल्स एण्ड देयर इलेक्ट्रोकेमिकल एप्लीकेशन्स भारतीय गणराज्य के अन्तर्गत रुड़की में आज, दिनांक अक्टूबर 4, 2019, संस्थान की मुद्रा अंकित यह उपाधि दी गई।

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

on the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

under the Master of Technology-Doctor of Philosophy Dual Degree Programme upon

SHASHANK BHATRA

Thesis Title: ION IMPLANTATION AND CHEMICAL MODIFICATION OF CuO NANOPARTICLES AND THEIR ELECTROCHEMICAL APPLICATIONS

Given this day, October 4, 2019, under the seal of the Institute at Roorkee in the Republic of India.

कुलसचिव Registrar अध्यक्ष, अभिषद् एवं निदेशक Chairman, Senate & Director 1 29 9 15

Item No. 81.11: To ratify the award of provisional Ph.D. Degree certificates to the students who have completed the requirements for the award of Ph.D. Degree in various disciplines from 25th September 2019 to date.

The list is presented in **Appendix-A**.

Senate approved PDC List

	Appendix 'A'						
I.No.	Name	Deptt.	Topic	Supervisor	Examiner (For./Ind.)	PDC Date	
1	Ms. Ananya Neogy	вт	AUXIN-CYTOKININ RESPONSES AND FUNCTIONAL SIGNIFICANCE OF AUXIN DURING RICE CROWN ROOT DEVELOPMENT	Prof. Shri Ram Yadav	Prof. P. Prakash Kumar, National Univ., Singapore Prof. Utpal Nath, IISc Bangalore	19.11.19	
2	Ms. Apurva Chatrath	ВТ	ANTIBIOFILM ACTIVITIES AND PROTEOMIC ANALYSIS OF CANDIDA TROPICALIS IN RESPONSE TO TERPENES	Prof. R. Prasad	Prof. Prashant Mishra, IIT Delhi Prof. Rayala Suresh Kumar, IIT Madras	06.12.19	
3	Ms. Sofia Pilli	вт	STUDIES ON HUMAN LINE-1 RETROTRANSPOSON ENCODED ORF2 PROTEIN	Prof. P. K. Mandal Prof. Vikas Pruthi	Prof. G. Narayan, IIT Varanasi Dr. Mitali Mukerji, CSIR Delhi	28.11.19	
4	Mr. Kasiviswanathan M	CE	BUCKLING BEHAVIOUR OF FRP BOX- BEAMS: GOVERNING PARAMETERS AND THEIR EFFECT	Prof. Akhil Upadhyay	Prof. C. Mittelstedt, Tech. Univ. Darmstadt. Germany Prof. S. Arul Jayachandran, IIT Madras Prof. Yogesh M. Desai, IIT Bombay	25.10.19	
5	Mr. John MohdWani	CE	INFERRING PERMAFROST AND ITS CHARACTERISTICS IN THE COLD-ARID HIMALAYA	Prof. C. S. P. Ojha Dr. Renoj J. Thayyen	Prof. Venkataraman Lakshmi, Virginia Univ., USA Prof. Raaj Ramsankaran, IIT Bombay	28.11.19	
6၊ ယ	Mr. Shujaat Hussain	CE	FIRE RESISTANCE OF REINFORCED CONCRETE COLUMNS	Prof. Umesh K. Sharma	Prof. Mitsuo Ozawa, Gunma University, Japan Prof. SudipTalukdar, IIT Guwahati	16.12.19	
CI	Mr. Manoj Kuri	DMM	STUDIES ON LANDSLIDE MOVEMENTS IN PARTS OF HIMALAYA IN UTTARAKHAND USING DINSAR TECHNIQUES	Prof. M. L. Sharma Prof. M. K. Arora	Prof. Manfred F. Buchroithner, Tech. Univ. Dresden Prof. Y. S. Rao, IIT Bombay Prof. Onkar Dikshit, IIT Kanpur	29.11.19	
8	Ms. Sujata Swain	CSE	CONTEXT-AWARE SERVICE COMPOSITION WITH FUNCTIONALLY EQUIVALENT SERVICES	Prof. Rajdeep Niyogi	Prof. Miroslaw Malek, SDG Switzerland Prof. Saroj Kaushik, IIT Delhi	28.11.19	
9	Mr. Dogga Raveendhra	EE	IMPROVED POWER QUALITY TRANSFORMERLESS POWER CONVERTERS FOR SOLAR PV SYSTEM	Prof. M. K. Pathak	Prof. Bimal K. Bose, University of Tennessee, USA Prof. Ranjit Mahanty, IIT Varanasi	31.10.19	
10	Ms. Sneha Singh	EE	FUSION OF MULTIMODAL NEUROLOGICAL IMAGES	Prof. R. S. Anand	Prof. Olaf Hellwich, Tech. University Berlin, Germany Prof. Sumantra Dutta Roy, IIT Delhi	26.11.19	
11	Ms. Kiran Singh	EE	INVESTIGATION ON SIX-PHASE SELF- EXCITED INDUCTION GENERATOR	Prof. G. K. Singh	Prof. Gerard-Andre Capolino, Univ. of Picardie, France Prof. K. Gopakumar, IISc Bangalore	17.12.19	
12	Ms. Neha Singh	ECE	DEVELOPMENT OF SIGNAL PROCESSING TECHNIQUES FOR ENHANCEMENT OF ENERGY CONCENTRATION IN TIME-FREQUENCY REPRESENTATION OF STRANSFORM	Prof. P. M. Pradhan	Prof. Hee-Cheol Kim, Inje University, South Korea Prof. Ram Bilas Pachori, IIT Indore	20,12,19	

13	Mr. Atul Kumar Rastogi	ES	GENESIS OF HIGH GRADE IRON ORE FROM BIF IN DALLI-RAJHARA, CHATTISRAGH, INDIA		Prof. Jens Gutzmer, TUBF Germany Prof. G. N. Jadhav, IIT Bombay Prof. Joydip Mukhopadhyay, PU Kolkata	07.11.19
14	Ms. Anita Devi	ES	3D MAGNETOTELLURIC AND DCR INVESTIGATIONS AT SELECTED SITES IN UTTARAKHAND	Prof. M. Israil	Prof. Shalivahan, IIT Dhanbad Prof. N. P. Singh, IIT Varanasi	27.11.19
15	Ms. Bharathi M.	EQ	DYNAMIC BEHAVIOUR OF BATTER PILES GROUPS	Prof. R. N. Dubey	Prof. Hesham El Naggar, Western University, Canada Prof. T. G. Sitharam, IIT Guwahati	20,11,19
16	Mr. P. Pravin Kumar Venkat Rao	EQ	OUT-OF-PLANE SEISMIC BEHAVIOUR AND STRENGTHENING OF UNREINFORCED MASONRY WALLS		Prof. Carlos A. Cruz-Noguez, Alberta Univ., Canada Prof. Sajal K. Deb, IIT Guwahati	10.12.19
17	Mr. Vineet Kumar Singh	HRE	OPTIMAL OPERATION OF RUN OF RIVER SMALL HYDRO POWER PLANT	Prof. S. K. Singal Prof. Chandra Shekher	Prof. H. Gwyn Rees, WRCEH, UK Prof. Suryanarayana Doola, IIT Bombay Prof. Dhiman Chatterjee, IIT Madras	16 12 19
18	Mr. Satyendra Kumar Mourya	IIC	FABRICATION OF SILICON CARBIDE THIN FILMS FOR ELECTRON DEVICES BY SPUTTERING	Prof. Ramesh Chandra Prof. Brijesh Kumar	Prof. Yogendra K, Mishra, Kiel Univ., Germany Prof. Sujeet Chaudhary, IIT Delhi	16 12 19
19	Mr. Jitender Kumar	MS	ACHIEVING CUSTOMER BRAND ENGAGEMENT THROUGH BRAND COMMUNITIES	Prof. J. K. Nayak	Prof. Linda Hollebeek, Tallinn Univ. of Tech., France Prof. Usha Kiran Rai, IIT Varanasi	31.10.19
20	Ms. Snehal Bawre	MS	AN ANALYSIS OF FINANCIAL LITERACY FROM THE PERSPECTIVES OF INDIVIDUALS AND FINANCIAL INSTITUTIONS USING SOCIAL MEDIA	Prof. Sujata Kar	Prof. P. Vigneswarallavarasan, IIT Delhi Prof. Ruchi Sharma, IIT Indore	19.11.19
21	Mr. Pramod Sharma	MS	EXAMINING TOURISTS' EMOTIONS AND ITS IMPACT ON TOURISTS' BEHAVIOUR	Prof. J. K. Nayak	Prof. Charles Arcodia, Griffith University, Germany Prof. M. P. Gupta, IIT Delhi Prof. Devashish, IIM Lucknow	09 12 19
22	Mr. Clement Cabral	MS	GREEN COMPETENCIES: CONCEPTUALISATION, CONSTRUCT DEVELOPMENT AND MEASUREMENT VALIDATION	Prof. R. L. Dhar	Prof. Werner Menski, London University, UK Prof. Saumya Singh, IIT Dhanbad	10.12.19
23	Ms. Mamta Saxena	MA	A STUDY ON PROPAGATION OF FLOOD WAVE IN A STREAM CONSIDERING STREAM-AQUIFER INTERACTION USING VARIABLE PARAMETER MUSKINGUM METHODS	Prof. T. R. Gulati Prof. M. Perumal		
24	Mr. Hemant Kumar	MA	FUZZY MULTI-OBJECTIVE RELIABILITY ANALYSIS USING NSGA-II	Prof. S. P. Yadav	Prof. Abdullah Konak, Information Sci. & Tech., USA Prof. T. Som, IIT Varanasi	05.12.19
25	Mr. Ankit Saxena	MIE	FABRICATION AND ANALYSIS OF AN ARTIFICIAL HUMAN HIP JOINT FOR SQUAT POSTURE	Prof. Rahul S. Mulik	Prof. Stefanos Zaoutsos, Univ. of Thessaly, Greece Prof. Manas M. Mahapatra, IIT Bhubaneswar	25.10.19

26	Mr. Sachin Balsara	MIE	AN ASSESSMENT OF CLIMATE CHANGE MITIGATION STRATEGIES OF THE INDIAN CEMENT INDUSTRY	Prof. P. K. Jain Prof. A. Ramesh	Prof. Uday Shanker Dixit, IIT Guwahati Prof. Ravi Shankar, IIT Delhi	19.11.19
27	Mr. Gaikwad Sharad Vasantrao	MIE	PERFORMANCE STUDY OF TREPANNING TOOL FOR DEEP ANNULAR GROOVING	Prof. Rahul S. Mulik	Prof. Pulak M. Pandey, IIT Delhi Prof. Pankaj Baswas, IIT Guwahati	20.12.19
28	Mr. Veeranjaneyulu Rayapudi	MME	BENEFICIATION STUDIES OF BANDED IRON ORES	Prof. Nikhil Dhawan	Prof. Philipp Hartlieb, Montabun Univ. Leoben, Austria Prof. Gour Gopal Roy, IIT Kharagpur	16,12,19
29	Mr. Rohit Kumar	PH	INVESTIGATIONS ON SYNTHESIS, STRUCTURAL AND SUPERCONDUCTING PROPERTIES OF FE(TE, SE) SUPERCONDUCTORS	Prof. G. D. Verma	Prof. Neeraj Khare, IIT Delhi Prof. S. Ravi, IIT Guwahati	05 12 19
30	Ms. Ankita Singh	PH	STRUCTURAL, MAGNETIC AND THERMAL PROPERTIES OF DOPED ORTHOFERRITE MATERIALS	Prof. Vivek K. Malik	Prof. Lambert Alff, Tech. Univ. Darmstadt, Germany Prof. Sujeet Chaudhary, IIT Delhi	16.12.19
31	Mr. Rajesh Chandra	PPE	REMEDIATION OF WASTEWATER AND BIOFUEL PRODUCTION USING MICROALGAE	Prof. U. K. Ghosh	Prof. Anshumali, IIT Dhanbad Prof. S. K. Singh, DTU Delhi	25.11.19
32	Mr. Swapnil Divekar	PT	SEPARATION FROM GASEOUS STREAMS BY PRESSURE SWING ADSORPTION	Prof. S. P. Singh Prof. I. M. Mishra Dr. Anshu Nanoti	Prof. T. J. Bandosz, The City College New York Prof. Sirshendu De, IIT Kharagpur Prof. Sasidhar Gumma, IIT Guwahati	20.12.19
33	Mr. Ayush Chandrakar	WRDM	HYDROLOGICAL MODELLING OF A TROPICAL WATERSHED UNDER LAND USE AND CLIMATE CHANGE SCENARIOS	Prof. Deepak Khare	Prof. Qin Xiaosheng, Nanyang Tech. Univ., Singapore Prof. B. R. Chahar, IIT Delhi	20 12 19

भारतीय प्रौद्योगिकी संस्थान रूड़की रूड़की — 247 667 (भारत)

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE ROORKEE - 247 667 (INDIA)



सीनेट की इक्यासीवीं बैठक हेतु अनुपूरक कार्यसूची SUPPLEMENTARY AGENDA FOR THE 81st MEETING OF THE SENATE

बैठक सं0

: इक्यासीवीं

MEETING NO.

: 81st

स्थान

: सीनेट हॉल, भा०प्रौ०सं० रूड़की

VENUE

: Senate Hall, IIT Roorkee

दिनांक

: 08 जनवरी 2020

DATE

: 8th January 2020

समय

: 3.30 बजे अपरान्ह

TIME

: 3.30 P.M.

भारतीय प्रौद्योगिकी संस्थान रूड़की INDIAN INSTITUTE OF TECHNOLOGY ROORKEE रूड़की 247 667 ROORKEE – 247 667



अनुपूरक कार्यसूची/SUPPLEMENTARY AGENDA

मुद्दा सं0/ Item No.	विवरण / Particulars	पृष्ठ / Page(s)
81.12	अनुमेय सीमा से परे छात्रों के पाठ्यक्रम जारी रखने एवं विस्तार के अनुरोधों पर विचार करना। To consider the requests of students regarding continuation of programme and extension beyond permissible time limit.	38-41
81.13	पीएचडी प्रोग्राम में शामिल प्रोफेशनल (वरिष्ठ पदों पर कार्यरत) के मामलें में कोर्स वर्क पूरा करने की आवश्यकता के संबंध में नीति के निर्माण पर विचार करना। To consider the formulation of policy regarding course work completion requirement in the case of professionals (working at senior positions) joining Ph.D. programme.	42
81.14	न्यूनतम निर्धारित अवधि से पहले पीएचडी थीसिस (पूर्णकालिक छात्रों के लिए उम्मीदवारी की तारीख से 02 वर्ष) जमा करने के अनुरोध पर विचार करना। To consider the request for permission to submit Ph.D. thesis before minimum stipulated period (02 years from the date of candidacy for full time students).	43
81.15	समय से परे विस्तार के अनुरोधों पर विचार करना — To consider the requests for extension in time beyond-	44-45
81.16	समय सीमा के अन्दर समय विस्तार के लिए अनुरोध नही करने के कारण पीएचडी में कटे नामों के पंजीकरण में बहाल करने के लिए दया की अपीलों पर विचार करना। To consider Mercy appeals for reinstating Ph.D. registration as name was struck off due to not making request for extension within time frame.	46-53

81.17	नाम कटनें के पश्चात पीएचडी पंजीकरण बहाली की दया अपील पर विचार करना।	54-56
	To consider Mercy appeals for reinstating Ph.D. registration as name was struck off due to.	
81.18	पीएचडी प्रोग्राम में दोबारा शामिल होने के लिए छात्रों के अनुरोधों पर विचार करना। To consider requests from students to re-join Ph.D. programme.	57
81.19	पीएचडी, एमटेक / एमआर्क / एमयूआरपी पाठ्यक्रमों में न्यूनतम शैक्षिक योग्यता के बदलाव पर विचार करना। To consider the change(s) in minimum academic qualification for Ph.D., M.Tech./M.Arch./MURP programmes.	58-63
81.20	वर्ष 2020—21 से एमबीए में प्रवेश हेतु चयन के मानदंड में बदलाव पर विचार करना। To consider the changes in the selection criteria for MBA Admission from 2020-21 onwards.	64
81.21	परास्नातक पाठयकमों में अर्न्तराष्ट्रीय और प्रायोजित भारतीय छात्रों तथा पीएचडी पाठयकम में अर्न्तराष्ट्रीय छात्रों के आस्थगित प्रवेश पर विचार करना। To consider allowing deferred admission to: (A) International Students and Sponsored Indian Students in Master Programmes (M.Tech/M.Arch./MURP/MSc./MBA) (B) International Students in Ph.D. Programme	65
81.22	स्नातक, परास्नातक और पीएचडी थीसिस जमा करने के समय समानता जांच रिपोर्ट अलर्ट पर विचार करना। To consider addressing similarity-check report alerts at the time of submission of Bachelors, Masters and Ph.D. thesis.	66
81.23	आईआईटी रूडकी और मिशिगन स्टेट यूपीवर्सिटी, यूएसए के मध्य दोहरे डोक्टरल डिग्री कार्यक्रम के लिए समझैता ज्ञापन को रिपोर्ट करना। To report the MoU for Dual-Doctoral Degree Program between IIT Roorkee and Michigan State University, USA.	67

81.24	अध्यक्ष, सीनेट द्वारा अनुमोदित स्प्रिंग सेमेस्टर 2019–20 के लिए शैक्षणिक कैलेंडर में शुद्धिपत्र को रिपोर्ट करना।	68
	To report the corrigendum in the Academic Calendar for Spring Semester 2019-20 approved by the Chairman, Senate.	
81.25	अल्प विशेषज्ञता सहित भू—विज्ञान विभाग की संशोधित संरचना के अनुमोदन को रिपोर्ट करना।	69
	To report the approval of the revised structure of Department of Earth Sciences including minor specialization.	
81.26	छात्रवृत्तियों इत्यादि पर अध्यक्ष, सीनेट के अनुमोदनो को रिपोर्ट करना।	70
	To report approvals accorded by the Chairman Senate on scholarships etc.	ø
UNDER	ANY OTHER ITEM:	
81.27	शैक्षिक वर्ष 2020—21 से एमबीए में प्रवेश के लिए सीट मैट्रिक्स पर विचार करना।	71-72
	To consider the Seat Matrix for MBA admission from the academic year 2020-21 onwards.	

Item No. 81.12: To consider the requests of students regarding continuation of program and extension beyond permissible time limit.

The IAPC considered the requests of students under various categories A, B (Appendix-A):

Category-A: Continuation of program inspite of not fulfilling minimum SGPA

- 1. Mr. Vinay Singhwal (Enr. No. 19560006), M.Tech. (PH) I Yr
- 2. Mr. Prem Singh (Enr. No. 19553005), M.Tech. (EQ) I Yr
- 3. Mr. Ye Yint Naung (Enr. No. 19538012), M. Tech. (ME) I Yr
- 4. Mr. Yan Naing Win (Enr. No. 19539013), M.Tech. (ME) I Yr
- 5. Mr. Kyaw Nyan Myint Soe (Enr. No. 19541012), M.Tech. (ME) I Yr
- 6. Mr. Praveen Kumar (Enr. No. 19527008), M. Tech. (EE) I Yr
- 7. Mr. Raj Kumar Meena (Enr. No. 19530012), M.Tech. (EE) I Yr
- 8. Mr. Shivendra Singh (Enr. No. 19519011), M.Tech. (CE) I Yr
- 9. Mr. Pankaj Panchal (Enr. No. 19526015), M.Tech. (EQ) I Yr
- 10. Mr. Shailesh Kumar (Enr. No. 19539009), M.Tech. (ME) I Yr
- 11. Mr. Pankaj Panchal (Enr. No. 19526015), M.Tech. (EQ) I Yr
- 12. Mr. Shailesh Kumar (Enr. No. 19539009), M.Tech. (ME) I Yr
- 13. Mr. TusharRangari(Enr. No. 18535028), M.Tech. (CS), II Yr
- 14. Mr. Gadekar Akshay Tanaji (Enr. No. 18542003), M. Tech. (ME) II Yr
- 15.Mr. Godase Santosh Ashok (Enr. No. 18544001), M.Tech. (MT) II Yr

In category-A, the names of the students have been struck off vide O.M. No.Acd./Result-30/1521 dated December 20, 2019. The IAPC in its 78th meeting held on 31.12.2019 considered the above requests and recommended the requests of students at Ser Nos. 1-3 with the condition of earning SGPA ≥ 4 after second/re-exam. The requests of students at Ser Nos. 4-9 have been recommended. The IAPC recommended continuation of the program of the student at Ser No. 10 and his Autumn Semester 2019-20 be treated withdrawn.

Category-B: Extension beyond permissible limit

- 1. Mr. Mr. Nikhil Bansal (Enr. No. 17520007), M.Tech. (CE), II Yr
- 2. Mr. Anand Suryavanshi (Enr. No. 15523007), M.Tech. (CE) II Yr

In category-B, the IAPC in its 78th meeting and 76th meeting held on 31.12.2019 and 07.11.2019, respectively, did not recommend the requests.

Appendix-A Item No. Senate/81.12

DETAILS OF STUDENTS' REQUESTS/ APPEALS

S. No.	Name	Details	Recommendations	Supporting Documents
	Category-A:	Continuation of program inspi	ite of not fulfilling minimum SGPA	
1.	Vinay Singhwal M.Tech. (PH), I Yr (Enr. No. 19560006)	-SGPA: 3.176 -CGPA:Grades: I, B+, A+, I, I -Applied for second exam	Department: Recommended (HoD) IAPC: Recommended if SGPA ≥ 4 after second exam	
2.	Prem Singh M.Tech. (EQ), I Yr (Enr. No. 19553005)	-No reason mentioned -SGPA: 3.947 -CGPA: 3.947 -Grades: F, C, C, C, C -Applied for re-exam	Department: Forwarded (HoD& Chairman, DAPC) IAPC: Recommended if SGPA ≥ 4 after re-exam	
3.	Ye YintNaung M.Tech. (ME), I Yr (Enr. No. 19538012)	-Delayed joining (3 weeks) -SGPA: 2.6 -CGPA: 2.6 -Grades: C, D, D, F, F -Applied for re-exam	Department: Forwarded (HoD& Chairman, DAPC) IAPC:Recommended if SGPA ≥ 4 after re-exam	-
4.	Yan Naing Win M.Tech. (ME), I Yr (Enr. No. 19539013)	-Delayed joining (3 weeks) -SGPA: 4 -CGPA: 4 -Grades: C, C, D, F, C+ -Applied for re-exam	Department: Forwarded (HoD& Chairman, DAPC) IAPC:Recommended	
5.	KyawNyanMyintSoe M.Tech. (ME), I Yr (Enr. No. 19541012)	-Delayed joining (3 weeks) -SGPA: 4.6 -CGPA: 4.6 -Grades: D, C, C+, D, D	Department: Forwarded (HoD& Chairman, DAPC) IAPC:Recommended	-
6.	Praveen Kumar M.Tech. (EE), I Yr (Enr. No. 19527008)	-Health issue: Dengue -SGPA: 4 -CGPA: 4 -Grades: C+, C, D, C, F -Applied for re-exam	Department: Forwarded (HoD& Chairman, DAPC) IAPC:Recommended	-Medical documents

7.	Raj Kumar Meena M.Tech. (EE), I Yr (Enr. No. 19530012)	-Family problems -SGPA: 4.4 -CGPA: 4.4 -Grades: C, D, C, D, D	Department: Forwarded (HoD& Chairman, DAPC) Wellness Centre: Not consulted by the student IAPC:Recommended	-
8.	Shivendra Singh M.Tech. (CE), I Yr (Enr. No. 19519011)	-No reason mentioned -SGPA: 4.238 -CGPA: 4.238 -Grades: D, FS, C+, C, C+	Department: Forwarded (HoD) & Recommended (Chairman, DAPC) IAPC:Recommended	15)
9.	Pankaj Panchal M.Tech. (EQ), I Yr (Enr. No. 19526015)	-Health issue: Dyspepsia, liver problem -SGPA: 4.737 -CGPA: 4.737 -Grades: D, D, C+, D, C+	Department: Forwarded (HoD& Chairman, DAPC) IAPC:Recommended	-Medical documents
10.	Shailesh Kumar M.Tech. (ME), I Yr (Enr. No. 19539009) (Requested for registration of Spring Semester 2019-20)	-Health issue: Stress -Family issues -Not appeared in any exam of Autumn Semester	IAPC:Approved continuation of program and Autumn Semester 2019-20 be treated withdrawn	-Medical documents
		Category-B: Extension beyor	nd permissible limit	
1.	Nikhil Bansal M.Tech. (CE), II Yr (Enr. No. 17520007)	-Health issue: Dengue fever -SGPA: 6.455, 6, 0, 0 -CGPA: 6.455, 6.25, 4.808, 6.25 -Dissertation Stage-I & II are still to be completed -Extension of one semester to complete dissertation work granted vide O.M. No.Acd./PG/Misc-16/852 dated Jan. 23, 2019	Department: Forwarded (HoD& Chairman, DAPC) Wellness Centre: Recommended IAPC:Not Recommended	-Medical documents countersigne d by CMO
2.	AnandSuryavanshi M.Tech. (CE) II Yr (Enr. No. 15523007)	-SGPA: 6.2, 5.667, 0, 0, 0, 0 -CGPA: 6.2, 5.947, 5.947, 5.947, 5.947, 5.947 -Dissertation Stage- I & II	Department: Forwarded (HoD) & Recommended (Chairman, DAPC) IAPC: Not Recommended	÷

are still to be completed -converted to part-time in Feb, 2017 -NOC issued after more than 2 months of joining the job -Deactivated in Aug, 2019 after expiry of 2 years from NOC -Request received in Sep,	
2019	

DETAILS OF STUDENTS' REQUESTS/ APPEALS

S. No.	Name	Details	Recommendations	Supporting Documents
In	continuation of Category	A: Continuation of program in requirement	spite of not fulfilling minimum S	GPA/ credits
11.	Uday Pratap Singh M.Tech. (CH), I Yr (Enr. No. 19611036)	-Rural background and language problem -SGPA: 3.857 -CGPA: 3.857 -TEC/TRC: 15/21 -Grades: D, D, F, C, F, B -Applied for re-exam	<u>Department</u> : HoD forwarded with recommendation of DAPC	-
12.	Manoj Tirkey M.Tech. (CH), I Yr (Enr. No. 19611016)	-Rural background and language problem -Didn't appear in MTE -SGPA: 2.857 -CGPA: 2.857 -TEC/TRC: 12/21 -Grades: D, D, F, F, F, C+ -Applied for re-exam	<u>Department</u> : HoD forwarded with recommendation of DAPC	-
13.	Tushar Rangari M.Tech. (CS), II Yr (Enr. No. 18535028)	-SGPA: 7.3, 6.889, 0 -CGPA: 7.3, 7.105, 5.4 -Dissertation Stage-I work didn't get accepted -TEC/TRC: 38/50	Department: Forwarded (HoD & Chairman, DAPC)	·-
14.	Godase Santosh Ashok M.Tech. (MT), II Yr (Enr. No. 18544001)	-Health issue -SGPA: 6.6, 7.444, 0 -CGPA: 6.6, 7, 5.320 -Dissertation Stage-I not submitted due to health issue -TEC/TRC: 38/50	<u>Department</u> : HoD forwarded with recommendation of DAPC	-Medical documents
15.	Gadekar Akshay Tanaji M.Tech. (ME), II Yr (Enr. No. 18542003)	-SGPA: 5.8, 5.111, 0 -CGPA: 5.8, 5.474, 4.160 -Dissertation Stage-I not completed -TEC/TRC: 38/50	<u>Department</u> : Forwarded (HoD)	-

Item No.81.13: To consider the formulation of policy regarding course work completion requirement in the case of professionals (working at senior positions) joining Ph.D. programme.

The IRC in its 33rd meeting held on Sept 11, 2019 discussed the course work requirements for professionals working at senior positions in respective organisations leading to candidacy. The Ph.D. Regulation R.3.2.3 states that credit requirements can be completed in the form of Project/Dissertation/Seminar, and NPTEL courses which is difficult under prevailing regulations. Considering the above, the IRC recommended the following:

- (a) New project course with 8 credits and Thesis (Dissertation) course with 16 credits be introduced.
- (b) To fulfil the requirements laid in Table-1 of clause R.3.3 of Ph.D. Rules and Regulations, the following can be adopted:

S.No.	Eligibility	Credit	Proposed Course
		Requirements	Work
1.	M. Tech., M. Arch., MURP or equivalent degree	Minimum 9 credits of P.G. level theory courses or 03 P.G. level courses.	1 project and 1 PG level course along with a 02 credits seminar.
2.	M.Sc., M.A., M.B.A. or equivalent admitted in Science, HSS or Management department	Minimum 12 credits of P.G. level theory courses or 04 P.G. level courses.	1 project and 2 PG level courses along with a 02 credits seminar.
3.	Student with B. Tech. or equivalent degree	Minimum 24 credits of P.G. level theory courses or 08 P.G. level courses.	1 thesis and 2-3 PG level courses along with a 02 credits seminar.

Item No.81.14:To consider the request for permission to submit Ph.D. thesis before minimum stipulated period (02 years from the date of candidacy for full time students).

S. No.	Name, Enroll. No., Status, Fellowship	Deptt./Centre, Date of Registration, Candidacy, Completed period	Performance Report, Pre synopsis Status, Last extension	Background of student	Request and Reason(s) of Student, IRC Recommendation
1.	K.N. Sasidhar,	Met. & Mat. Engg.,	Satisfactory (Autumn 2019-	GATE: 2017	* To submit Pre- synopsis and thesis
		July 08, 2017,	2020),	B.Tech:2017 from IIT	before stipulated period.
	17921005,	Candidacy: Feb. 26,	Pre-synopsis:	Roorkee with	
		2019 Course work	Not given.	9.636 CGPA.	* Reason: Completed
	Full-Time,	CGPA: 10.0	Last		requirements of
			extension:NA		thesis submission.
	PMRF	Completed 10 months 09 days on Jan. 07, 2020 after candidacy.			* 35 th IRC recommended the
					case.

Item No.81.15: To consider the requests for extension in time beyond -

A. Maximum stipulated period of 06 years (Full-Time) for submission of Ph.D. thesis.

S. No.	Name, Enroll. No., Status, Fellowship	Deptt./Centre, Date of Registration, Candidacy, Completed period	Performance Report, Pre synopsis Status, Last extension	Background of student	Request and Reason(s) of Student, IRC Recommendation
1.	Neha Kumari,	Earthquake Engg.	Satisfactory (Autumn 2019-	GATE: 2013	* Requested for time extension through
		Jan. 01, 2014,	2020),	B.Sc.: 2010from	SRC till March 31, 2020.
	13917015,	Candidacy: Aug. 20,		Kurukshetra	
		2015	Pre-synopsis:	University	* Reason: Thesis
	Full-Time,	Course work: Grades: A/A+/A	Not given.	with79.40%.	writing.
		CGPA: 9.4		M.Tech. (03	* 36 th IRC
			Last extension:	Yrs.):	recommended the
	NR		Till Dec. 30, 2019	2013from	case.
		Completed6 years on	by 31st IRC.	Kurukshetra	
		Dec. 31, 2019.		University	
				with 9.05	
				CGPA.	

B. Maximum stipulated period of candidacy and possible extension afterwards.

S. No.	Name, Enroll. No., Status, Fellowship	Deptt./Centre, Date of Registration, Candidacy, Completed period	Performance Report, Pre synopsis Status, Last extension	Background of student	Request and Reason(s) of Student, IRC Recommendation
1.	Rajesh Pandey, 17912008, Part-Time,	Earth Sciences, July 07, 2017, Candidacy: May 15, 2019 (Not approved) due to receipt after 18 months without taking/requesting for extension. Course work: CGPA: 9.286 Reason of NSO:NA Completed 2.5 years on Jan. 06, 2020.	Satisfactory (Autumn 2019- 2020), Pre-synopsis: NR. Last extension: Not requested	CSIR-JRF: 2012 B.Sc. (Hon.): 2009 from Banaras Hindu University, Varanasi with 76 %. M.Tech.: 2012 from IIT Roorkee with 8.95 CGPA.	*Requested to accept the candidacy report after stipulated period. * Justification required by 30th IRC for delay in candidacy: Due to non availability of supervisors and other SRC members on appropriate date. * If student has applied timely then could have availed extension permission from DoAA 03 months/ IRC-next 03 months.
					* 36 th IRC recommended for reinstatement of registration.

C. Extension given by the Senate for Ph.D. Thesis submission.

S. No.	Name, Enroll. No., Status, Fellowship	Deptt./Centre, Date of Registration, Candidacy, Completed period	Performance Report, Pre synopsis Status, Last extension	Background of student	Request and Reason(s) of Student, IRC Recommendation
1.	Veerendra Yadav, 13914026,	Civil Engg. July 23, 2013, Candidacy:March 12,	Satisfactory (Spring 2018- 2019),	B.Tech.:2008 from UPTU Lucknow with	0 1
	Full-Time,	2015 Course work: Grades:B/B+/B CGPA: 7.25	Pre-synopsis: June 26, 2019.		circumstances. * IRC recommendation
	NR	Completing 6½ years on Jan. 22, 2020.	Last extension: Till Dec. 31, 2019 by 79 th Senate.	Roorkee with 6.46 CGPA.	not obtained as thesis uploaded on Jan. 01, 2020.
2.	Jahnavi K.	Civil Engg. July 12, 2013, Candidacy: Feb. 26,	Satisfactory (Spring 2018- 2019),	B.Tech.: 2010 from Dr. MGR University,	* Requested for extension of 01 day i.e. Jan. 01, 2020 through supervisor.
	Full-Time,	2015 Course work: Grades:B/B/B CGPA: 7.00	Pre-synopsis: Dec 21, 2019	8.32 CGPA. M.Tech.:2013	* Reason: Plagiarism report received very late on 31.12.2019. Also had some issues
	NR	Completing 6½ years on Jan. 11, 2020.	Last extension: Till Dec. 31, 2019 by 79 th Senate.	from IIT Roorkee with 6.707 CGPA.	Activities the second s
3.	Amrish Kumar,	Paper Technology, Jan. 01, 2013,	Satisfactory (Spring 2018- 2019),	UGC-JRF: 2012	* Requested for extension of 03 days i.e. Jan. 03, 2020.
	12926015, Full-Time,	Candidacy: Aug. 30, 2014 Course work: Grades: B/B+/B/B/B	Pre-synopsis: June 20, 2019	from CCS University, Meerut with 55.09 %.	* Reason: Could not get signed papers till
	NR	CGPA: 7.23 Completed 07 years on Dec. 31, 2019.	Last extension: Till Dec. 31, 2019 by 79 th Senate.		thesis uploaded on

4.	Lipi Mishra,	Civil Engg.	Unsatisfactory	GATE:2012	* Requested for time
			(Autumn 2019-		extension through
		July 12, 2013	2020),		SRC till June 30,
	13914014,			B.Tech.:	2020.
		Candidacy: Apr. 07,	Pre-synopsis:	2012 from	
		2015	Not given.	NIT Rourkela	* Reason: Medical
	Full-Time,	Course work:		with 7.48	issues.
		Grades:	Last extension:	CGPA.	
		B/B/B+/B/B+	Till Dec. 31,		Note: No journal
	NR	CGPA: 7.33	2019 by 79th		paper has been
			Senate.		published by the
		Completing 6.5 years			student till date.
		on Jan. 11, 2020.			State
					* 36th IRC
					recommended the
		•			case.

Item No.81.16: To consider Mercy appeals for reinstating Ph.D. registration as name was struck off due to not making request for extension within time frame.

A. Thesis submission cases.

S. No.	Name, Enroll. No., Status, Fellowship	Deptt./Centre, Date of Registration, Candidacy, Reason of NSO, Completed period	Performance Report, Pre synopsis Status, Last extension,	Background of student	Appeal and Reason(s) of Student, IRC Recommendation
1.	Sunil Yadav, 14917006, Full Time, NR	Hydrology, Aug. 12, 2014, Candidacy: May 03, 2016 Course work: Grades: A/B/B+/A CGPA:8.00 Reason of NSO: Through O.M. dt 20.09.2019 due to non submission of thesis within stipulated period. Completing5.5 years on Feb. 11, 2020.	Satisfactory (Spring 2018-2019), Pre-synopsis: Not given. Last extension: Aug. 11, 2019 Autumn Semester 2019-2020 null semester.	GATE: 2011 B.Tech.: 2011from DCRUST, Sonepat with 65.84 %. M. Tech.: 2013from NIT, Karnataka with 8.67 CGPA.	*Appealed to reinstate registration and time extension till Feb. 11, 2020. * Reason: Delayed availability of effluent samples from Industry. * Accident and Dental surgery. * Delayed availability of Membrane. * Non-operational ICP-MS at the IIC, IITR. *Justification has been submitted by the supervisor. * 36th IRC recommended for reinstatement of registration.
2,	Shachi, 14917005, Full Time, NR	Hydrology, July 09, 2014, Candidacy: Dec. 16, 2015 Course work: Grades: B+/B+/A CGPA: 8.14 Reason of NSO: Through O.M. dt 20.09.2019 due to non submission of thesis within stipulated period. Completing 5.5 years on Jan. 08, 2020.	Satisfactory (Spring 2018-2019), Pre-synopsis: Not given. Last extension: July 08, 2019 Autumn Semester 2019-2020 null semester.	GATE: 2012 B.Tech.: 2010from UPTU, LKO with 69.22 %. M. Tech.: 2014from IIT, Roorkee with 8.727 CGPA.	*Appealed to reinstate registration and time extension till Autumn Sem. 2019-2020. * Reason: She could not apply for extension due to serious medical issues. * She met with an accident for which she had to undergo treatment for around one and a half month at IITR hospital and her home town hospitals. * She was not medically fit and her recovery was slow

					and delayed due to chronic Otosclerosis (hearing impairment in both ears). *Justification has been submitted by the supervisor. * Status: Thesis writing in progress. Can be submitted within this semester. *36th IRC recommended for reinstatement of registration.
Pu 14	niv Dutt urohit, 4924005, ull Time,	Polymer & Process Engg., July 09, 2014, Candidacy: Feb. 29, 2016 Course work: Grades: B/A/A CGPA:8.09 Reason of NSO: Through O.M. dt 20.09.2019 due to non submission of thesis within stipulated period. Completing 5.5 years on Jan. 08, 2020	Satisfactory (Spring 2018-2019), Pre-synopsis: Not given. Last extension: July 08, 2019 Autumn Semester 2019-2020 null semester.	GATE: 2013 Dual-Degree B.Tech.: 2013from Univ. of Rajasthan, Jaipur with 62.59 %. M.Tech.: 2013from Univ. of Rajasthan, Jaipur with 65.6 %.	*Appealed to reinstate registration and recommended by supervisor for time extension till June 30, 2020. * Reason: Student's work on tissue Engineering is dependent on other Institutes i.e. AIIMS, New Delhi as all the facilities are not available in his lab. * Some experimental results from other institutes are awaited. * Writing work for two more research articles is remaining. *Requested to grant him time extension upto June 30, 2020 for thesis submission. *Justification has been submitted by the supervisor. *36th IRC recommended for reinstatement of registration.

4.	Aparna Dutta,	Civil Engg.,	Satisfactory (Spring 2018-	GATE: 2011	*Appealed to reinstate registration and
	14910005,	July 09, 2014, 4910005,	2019),	B.Tech.:2011f rom SRM Univ.,	
		Candidacy: Feb. 23, 2016	3, Pre-synopsis: Not given. Last extension:	Kanchee- puram with	2020.
	Full-Time,	Course work: Grades: A/B/A CGPA:8.27		92.25 %. M.Tech.:	* Reason: A significant part of the thesis work requires metal
	NR	Reason of NSO: Through	July 08, 2019	2014 from IIT Roorkee,	analysis in large number of aqueous
		O.M. dt 20.09.2019 due to non submission of thesis within stipulated period.	Autumn Semester 2019- 2020 null semester.	with 8.884 CGPA.	samples. The availability of the instruments for such purpose in IITR was very scarce.
		Completing 5.5 years on Jan. 08, 2020			* Some minor experiments, writing of research articles and thesis writing
					need to be taken up. * Requested to grant her time extension upto July 15, 2020
					for thesis submission. *Justification has been submitted by the supervisor.
					*36th IRC recommended for reinstatement of registration.
5.	Sandeep Singh Chauhan	Electronics & Comm. Engg.,	Satisfactory (Spring 2018- 2019),	GATE: 2012 B.Tech.: 2011 from	*Appealed to reinstate registration and extension upto Dec.
	14015010	July 31, 2014,		UPTU	31, 2019.
	14915019,	Candidacy: March 21,	Pre-synopsis: Sep. 09, 2019 (Not approved by	Lucknow with 74.88 %.	* Reason: That he had submitted his request in the
	Full-Time,	2016 Course work:	DoAA).	M.Tech.:	department timely. It is not his mistake
	NR	Grades: B+/A/B+/B+ CGPA: 8.28	Last extension: July 30, 2019.	2014 from NIT Karnataka	that form was sent to AA Office late. * Requested to grant
		Reason of NSO: Through O.M. dt	Autumn Semester 2019-	with 8.75 CGPA.	him time extension upto Dec. 31, 2019 for thesis submission.
		20.09.2019 due to non submission of thesis within stipulated period.	2020 null semester.		*Justification has been submitted by the student through
		Completing 5.5 years on Jan. 30, 2020.			student through supervisor(s).
					NOTE: Form received in AA Office on

					03.10.2019. His name was struck off on 20.09.2019. * Status: Thesis submission can be done within 10 days. * 36th IRC recommended for reinstatement of registration.
6.	Narendra Kumar, 14915009, Full-Time, NR	Electronics & Comm. Engg., July 22, 2014 Candidacy: March 17, 2016 Course work: Grades: B/B/B/B CGPA:7.00 Reason of NSO: Through O.M. dt 20.09.2019 due to non submission of thesis within stipulated period. Completing 5.5 years on Jan. 21, 2020.	Satisfactory (Spring 2018-2019), Pre-synopsis: Not given. Last extension: July 21, 2019. Autumn Semester 2019-2020 null semester.	GATE: 2012 B.Tech.:201 Ofrom UPTU Lucknow with 64.90 %. M.Tech.: 2014 from IIT Roorkee with 7.800 CGPA.	*Appealed to reinstate registration and recommended by supervisor for time extension till July 2020. * Reason: Student's work is based on the fabrication. Experimental work which took time due to breakdown of the instruments, optimization of the desired result etc. * Student is compiling the results. * Need time for collection of results and thesis writing. *Requested to grant him time extension upto July 31, 2020 for thesis submission. *Justification has been submitted by the student through supervisor(s). * 36th IRC recommended for reinstatement of

7.	Manish Kumar	Mech. &Indl. Engg.,	Satisfactory (Spring 2018-	GATE: 2012	* Appealed to reinstate registration and
	Gupta	March 24, 2014,	2019),	Dual Degree (B.Tech.+M.	recommended by supervisor for time
	13923027,	Candidacy: Dec. 07, 2015 Course work: Grades: B+/B/A CGPA: 7.8	Pre-synopsis: July 11, 2019.	Tech.): 2008fromIIT Madras with 6.56 CGPA.	extension till March 23 2020. * 36th IRC
	Full-Time,	Reason of NSO:	Last extension:	0.50 CG1 A.	recommended for reinstatement of
	NR	Through O.M. dt 21.11.2019 due to non	Sept. 23, 2019		registration.
		submission of thesis within stipulated period.	Autumn Semester 2019- 2020 null		
		Completing 6 years on March 23, 2020.	semester.		
8.	Deepak Dangwal	Mathematics,	Satisfactory (Spring 2018- 2019),	B.Sc.: 1993from HNB Garhwal	*Appealed to reinstate registration and recommended by
	13922004,	July 12, 2013	Pre-synopsis:	University with 54.00 %	supervisor for time extension till July 2020.
	Part-Time, (w.e.f. June	Candidacy: March 04, 2015 Course work:	Not given.	M.Sc.: 1995from HNB Garhwal	* Reason: Due to some personal unavoidable
	15, 2016)	Grades: B/B/B+ CGPA: 7.2	Last extension: July 11, 2019	University with 61.30 %	circumstances (surgery and post-surgical care of his
	NR	Reason of NSO: Through O.M. dt 20.09.2019 due to non submission of thesis within stipulated period.	Autumn Semester 2019- 2020 null semester.	M.C.A.:2003f rom Kumaun University, Nainital with 70.53 %	wife and other responsibilities and reasons), he was unable to submit his
		Completing 6.5 years on Jan. 11, 2020.			him time extension upto July 31, 2020 for thesis submission. *Justification has been submitted by the student.
					* 36th IRC recommended for reinstatement of registration.

9.	Bhanu Pratap Chamoli,	CoEDMM, July 12, 2013,	Satisfactory (Spring 2018- 2019),	GATE: 2011 B.Tech.: 2006from	*Appealed to reinstate registration and recommended by supervisor for time
	13929003,	Candidacy:Jan. 14, 2015 Course work:	Pre-synopsis: Not given.	NIT Silchar with 7.71 CGPA.	extension till Dec. 31, 2019. * Reason: Due to his
	Part Time, (w.e.f. Jan. 01, 2018) NR	Grades: B/A/A CGPA: 8.00 Reason of NSO: Through O.M. dt 20.09.2019 due to non submission of thesis within stipulated period. Completing 6.5 years on Jan. 11, 2020.	Last extension: June 30, 2019 Autumn Semester 2019- 2020 null semester.	M.Tech.: 2013from IIT, Roorkee with 7.667 CGPA.	family circumstances, he had to join job. Thus, he had joined a job and converted his status from Full-Time to Part-Time in January, 2018. *Requested to allow him to submit his Ph.D. thesis by December 31, 2019. *Justification has been submitted by the supervisor. * Status: Not confirmed. * 36th IRC recommended for reinstatement of
10,	Soujit Das	Hum. & Social Sciences,	Satisfactory (Spring 2014-	UGC-JRF: 2012	registration. *Appealed to reinstate registration and
	13919010,	July 12, 2013	2015), Pre-synopsis:	B.F.A.: 2010 from Visva Bharati	recommended by supervisor for time extension till April 30, 2020.
	Part-Time, (w.e.f. July 11,	N.S.O. - Feb 20, 2017 Rejoin - May 27, 2019 (allowed by 27 th IRC)	Not given. Last extension:	University with 68.6%.	* Reason: Student assumed that his tenure of withdrawal
	NR 2014 Cour Grade	Candidacy: April 25, 2014 Course work: Grades: A+/A+/A/A+ CGPA: 9.75	July 11, 2019 Autumn Semester 2019- 2020 null semester.	2012 from Visva Bharati University with 76.9%.	have been considered as 'withdrawal semesters' in Ph.D. programme and he still have few semesters to complete his work.
		Reason of NSO: Through O.M. dt 20.09.2019 due to non submission of thesis within stipulated period. Completing 6.5 years on Jan. 11, 2020.			* He is working relentlessly and preparing for pre- submission by the end of December, 2019 and subsequently for final submission. *Justification has been submitted by the student through

					* SRC. * Status: Supervisor said thesis is ready for submission immediately. * If student has applied timely then could have availed extension permission from DoAA- 06 months/ IRC-next 06 months. * 36th IRC recommended for reinstatement of registration.
11,	Himanshu Kala,	Met. & Mat. Engg., Aug. 02, 2014,	Satisfactory (Spring 2018- 2019),	GATE: 2012 B.Tech.: 201	* Appealed to reinstate registration and recommended by
		1108, 02, 201,	,	2 from UTU	SRC for time
	14921011,	Candidacy: March 18,		Dehradun	extension till Autumn
		2016	Pre-synopsis:	with 76.54	Sem. 2019-2020.
		Course work:	Not given.	%.	
	Full-time,	Grades: A/A/B/A			* Justification: Not
		CGPA: 8.42		M.Tech.:	Received.
			Last extension:	2014 from	
	NR	Reason of NSO:	Aug. 01, 2019	March 1	* Status: No work done
		Through O.M. dt 20.09.2019 due to non		Engg.	by the student. No
		submission of thesis	Autumn	College, Pauri	journal paper published.
		within stipulated period.	Semester 2019-	Garhwal with	pablistica.
		within supulated period.	2020 null	82.25 %.	*36th IRC did not
		Completing 5.5 years on Feb. 01, 2020.	semester.	02.20 /0.	recommend.

B. Candidacy cases.

S. No.	Name, Enroll. No., Status, Fellowship	Deptt./Centre, Date of Registration, Candidacy, Reason of NSO, Completed period	Performance Report, Pre synopsis Status, Last extension,	Background of student	Appeal and Reason(s) of Student, IRC Recommendation
1.	Mohd. Shoaib 17909027, Full-Time, CSIR-JRF	Chemistry, Feb. 22, 2018 Candidacy: Not completed Course work: In Autumn & Spring Sem. 2018-2019, 04 courses, Ph.D. seminar pending. CGPA:6.50 Probation period: Autumn sem. 2019-20 (registered for one additional subject and seminar) Reason of NSO: Through O.M. dt 17.09.2019 due to non completion of candidacy within stipulated period. Rule R.3.1: A candidate with less than 7.00 CGPA shall be allowed to take up more courses in the following semester while keeping the maximum duration for completing candidacy unchanged. Completing 22 months on Dec. 21, 2019.	Satisfactory (Spring 2018-2019), Pre-synopsis: NR Last extension: NA	NET: 2015 GATE: 2015 CSIR-JRF: 2017 B.Sc.: 2011 from HNB Garhwal University with 54.00 %. M.Sc.: 2013 from HNB Garhwal University with 72.96 %.	0

Item No. 81.17: To consider Mercy appeals for reinstating Ph.D. registration as name was struck off due to.

A. Completion of maximum stipulated period for candidacy.

S. No.	Name, Enroll. No., Status, Fellowship	Deptt./Centre, Date of Registration, Candidacy, Reason of NSO, Completed period	Performance Report, Pre synopsis Status, Last extension,	Background of student		
1.	Sandeep Kumar Singh, 17906005, Full-Time, Institute Assistantship	Nanotechnology Dec. 28, 2017 Candidacy: Not completed Comprehensive Exam: Not completed. Course work CGPA: 7.714 Reason of NSO: Through O.M. dt 17.09.2019 due to non completion of candidacy within stipulated period. Completed 24 months on Dec. 27, 2019.	Satisfactory (Spring 2018- 2019), Pre-synopsis: NR Last extension: Not requested	Gate: 2015 B.Tech.:2014 from UPTU, Lucknow with 78.76 %. M.Tech.: 2016 from M.M. Malaviya Univ. of Tech., Gorakhpur with 8.57 CGPA.		
2.	Piyush 17912017, Part-Time, NA	Earth Sciences, Dec. 28, 2017, Candidacy: Not completed Comprehensive Exam: Not completed. Course work CGPA: 7.00 Reason of NSO: Through O.M. dt 17.09.2016 due to non completion of candidacy within stipulated period. Completed 24 months on Dec. 27, 2019.	Satisfactory (Spring 2018- 2019), Pre-synopsis: NR Last extension: Not requested	NET/Gate/ JRF: Not mentioned B.Sc. (Hon.): 2005 from Vinoba Bhave University, Hazaribagh with 76.60 %. M.Tech.: 2008 from IIT Roorkee with 7.50 CGPA.	* Appealed to reinstate registration and extension to complete candidacy requirement. Extension period not mentioned. * 36th IRC recommended for reinstatement of registration.	

3.	Saurabh	Elec. & Comm. Engg.,	Satisfactory	GATE: 2015	* Appealed on Dec. 24,
	Singhal	*	(Spring 2018-		2019 for name
			2019),	B.Tech.:201	restoration and time
		Dec. 28, 2017,		0 from UPTU	extension till February
	17915016,			Dehradun	2020 for completion of
			Pre-synopsis:	with 71.22%.	Compre. Exam and
		Candidacy:	NR		Research Proposal.
	Part-Time,	Not Completed		M.Tech.:201	* Reason: Due to long
	(Spon.)	Comprehensive		3 from NIT	illness and demise of
		Exam.:	Last extension:	Jalandhar	his mother.
		Not Completed	Not requested	with 8.31	Note: Student
	NR	***		CGPA.	registered his credit
		Course work:			seminar in Autumn
		CGPA: 7.727 (excluding			Sem. 2018-2019 and
		credit seminar)			gave his seminar in
					Autumn Sem. 2019-
		Reason of NSO:			2020 (on 13.08.2019)
		Through O.M. dt			without taking
		17.09.2016 due to non			permission/extension.
		completion of candidacy			* Matter was
		within stipulated period.			circulated after 36th
					IRC to IRC members.
		Completed 02 years on			
		December 27, 2019.			Recommendations:
					Not recommended.

B. Non submission of mandatory documents related to Ph.D. admission within time frame.

S. No.	Name, Enroll. No., Status, Fellowship	Deptt./Centre, Date of Registration, Candidacy, Reason of NSO, Completed period	ate of Registration, ndidacy, Pre synopsis eason of NSO, Status,		Appeal and Reason(s) of Student, IRC Recommendation	
1.	Deepak 19920007, Full-Time,	Mech. & Indl. Engg., July 12, 2019, Candidacy: Not completed Course work: Not	Progress Report for Autumn 2019-2020 not received. Pre-synopsis: NR	GATE: 2012 B.Tech.:2011 from Maharshi Dayanand University, Rohtak with 71.77 %.	* Appealed to reinstate registration and extension to submit relieving letter within 45 days upto Jan. 15, 2020. * 36th IRC recommended for	
	Institute Assistantship	completed.	Last extension: NR	M.Tech.: 2015 from IIT Delhi with 8.242 CGPA.	reinstatement of registration as student has submitted his resignation letter to UPES.	
2.	Yogesh Kumar,	Chemistry, July 12, 2019	Satisfactory (Autumn 2019- 2020),	CSIR-JRF: 2018 B.Sc.: 2015	* Appealed to reinstate registration. * 36th IRC	
	19909015, Full-Time,	Candidacy: Not completed Course work: Not completed	Pre-synopsis:	from Maharshi Dayanand University,	recommended for reinstatement of registration as student has given	
	CSIR-JRF	Reason of NSO: Through O.M. dt 03.12.2019 due to non submission of relieving letter within time. Completing 06 months on Jan. 11, 2020.	Last extension: NR	Rohtak with 63 %. M.Sc.: 2018 from Jamia Millia Islamia with 7.66 CGPA.	required letter.	

C. Two consecutive Unsatisfactory Progress reports.

S. No.	Name, Enroll. No., Status, Fellowship	Deptt./Centre, Date of Registration, Candidacy, Reason of NSO, Completed period	Performance Report, Pre synopsis Status, Last extension,	Background of student	Appeal and Reason(s) of Student, IRC Recommendation
1,,	Nivedita Pandey,	Met. & Mat. Engg., Jan. 07, 2019	(Spring 2018-	JRF/GATE: Not mentioned.	* Appealed to reinstate registration. * 36th IRC did not
	18921025,	Candidacy: Not completed Course work CGPA:	Pre-synopsis:	B.Tech.:2007 from UPTU Lucknow,	recommend.
	Full-Time,	6.14	NA NA	with 68.5 %.	
	Project-JRF	Reason of NSO: Through O.M. dt 09.12.2019 due to 02 consecutive unsatisfactory progress reports. Completing 01 year on Jan. 06, 2020.	Last extension: NR.	M.Tech.: 2012 from Subharti University, Meerut with 84.4%.	

D. Non registration in Spring semester 2018-2019.

S. No.	Name, Enroll. No., Status, Fellowship	Deptt./Centre, Date of Registration, Candidacy, Reason of NSO, Completed period	Performance Report, Pre synopsis Status, Last extension,	Background of student	Appeal and Reason(s) of Student, IRC Recommendation	
1.	Ranveer Singh Shekhawat	Civil Engg. July 09, 2014,	Unsatisfactory (Spring 2017- 2018),	NET/GATE: NA	* Appealed to reinstate registration.	
		Candidacy: May 21,	Progress report Autumn Sem.	B.E: 1999 from JNV	* Reason: Medical issues i.e.	
	14910023,	2015. Course work: Grades: A/B/B/B+	2018-2019 not received.	University, Jodhpur with71.40%.	adjustment disorder and depressive features.	
	Part-Time	CGPA: 7.714				
	(QIP),	Reason of NSO: Through O.M. dt 25.03.2019 due to non registration in	Pre-synopsis: NA	M.Tech.:2004 from IIT Delhi with 7.6 CGPA.	recommend his	
		Spring Sem. 2018-2019.	Last extension:		* 35 th IRC did not recommend.	
		Completing 5.5 years on Jan. 08, 2020.				

Item No.81.18: To consider requests from students to re-join Ph.D. programme.

S. No.	Name, Enroll. No., Status, Fellowship	Deptt./Centre, Date of Registration, Candidacy, Reason of NSO, Completed period	Performance Report, Pre synopsis Status, Last extension,	Background of student	period of 03 years 08 months from the date of NSO. * Reason: Due to training period, could	
1.	Mayank Awasthi 13915019, Part-Time,	Elec. & Comm. Engg. Jan. 01, 2014, Candidacy: Aug. 26, 2015. Course work: Grades: A/B+/A CGPA: 8.55 Reason of NSO: Through O.M. dt 20.02.2016 due to non registration in Spring Sem. 2016-2017. Completed 6 years on Dec. 31, 2019.	Satisfactory (Spring 2015- 2016), Pre-synopsis: NA Last extension: NA	GATE: 2010 B.Tech.:2010 from IIITDM, Jabalpur with7.7 CGPA. M.Tech.:2012 from IIT Roorkee with 7.75 CGPA.		
2.	Koti Shiva Reddy 16910007, Part-Time (Spon.), NR	Civil Engg. July 08, 2016, Candidacy: Not Completed. Comprehensive Written Exam.:06.10.2017 Comprehensive Oral Exam.: Not Completed Course work CGPA: 7.462. Reason of NSO: Through letter dt 01.10.2018 due to non completion of Candidacy requirements within stipulated period. Completed 3.5 years on Jan. 07, 2020.	Satisfactory (Spring 2016- 2017), Autumn Sem. 2017-2018 and Spring 2017- 2018 did not received. Pre-synopsis: NA Last extension: Not requested	NET/GATE: NA B.E: 2007 from Govt. Engg. College, Bilaspur with 72.40%. M.Tech.:2011 from IIT Roorkee with 9.05 CGPA.	* Appealed to reinstate registration after a period of 12 months from the date of NSO. * Reason: Time spent in attending conferences and summer schools and pregnancy of wife in 2018. * 35th IRC did not recommend.	

Item No.81.19:To consider the change(s) in minimum academic qualification for:

- (A) Ph.D. Programme in following departments/centres:
- 1. Hydro and Renewable Energy
- 2. Physics
- 3. Centre for Nanotechnology
- 4. Centre for Transportation Systems
- (B) M.Tech./M.Arch./MURP programme
- (a) The IRC in its 36th meeting held on 24.12.2019 recommended the proposed change(s) in minimum academic qualification of Ph.D. Programme. Details are given in **Appendix-A**.
- (b) IAPC in its 78th meeting recommended the proposed change(s) in minimum academic qualification for admission to M.Tech/M.Arch./MURP Programme from the year 2020-21 onwards. Details are given in **Appendix-B**.

Proposed Academic Qualification for Ph.D. Admission for Autumn Semester 2020-21 onwards

S.No.	Department/Centre	Existing	Proposed
1.,	Hydro & Renewable Energy	i. B.Tech. / M.Tech. or equivalent in Civil / Electrical / Mechanical/ Industrial / Chemical / Environmental / Agricultural / Computer / Electronics Engineering ii. M.Sc. in disciplines consistent with research areas of the centre.	i. B.Tech. / M.Tech. or equivalent in Civil / Electrical / Mechanical/ Industrial / Chemical / Electronics/ Computer/ Agricultural/ Environmental/ Biotechnology/ Instrumentation Engineering or Equivalent and related disciplines.
	-		ii. M.Sc. in disciplines consistent with research areas of the department.
2.	Physics	i. M.Sc. in Physics/ Applied Physics ii.M.Sc. in Chemistry/ Mathematics/	i. M.Sc. in Physics/ Applied Physics
		Biophysics/ Geophysics/ Computer Science, provided Physics was a subject at B.Sc. level. iii. B.Tech. or equivalent in Electrical / Electronics / Chemical/ Metallurgical / Engineering Physics. Candidates at Category (ii) and (iii) may be considered for research area consistent with the academic background and special interests.	ii.M.Sc. in Chemistry/ Mathematics/ Biophysics/ Geophysics/ Computer Science/Electronics, provided Physics was a subject at B.Sc. level. iii. B.Tech. or equivalent in Electrical / Electronics / Chemical/ Metallurgical /Nanotechnology/ Engineering Physics.
			Candidates at Category (ii) and (iii) may be considered for research area consistent with the academic background and special interests.
3.	Centre for Nanotechnology	 (i) B.E./B.Tech or M.E./M.Tech. in Metallurgy / Chemical / Polymer / Mechanical / Biotechnology / Physics / Chemistry / Electronics / Electrical /Civil or equivalent (ii) M.Sc. / M.S. (Science / Engineering) B. 	(i) B.E./B.Tech or M.E./M.Tech. in Nanotechnology/ Metallurgy / Chemical / Polymer / Mechanical / Biotechnology /Engineering Physics /Engineering Chemistry /
		Pharm /M. Pharm	Electronics / Electrical /Computer Science and Engineering/Civil/Energy/ Environmental/ Agriculture or

S.No.	Department/Centre	Existing	Proposed
			equivalent.
			(ii) M.Sc. / Int. M.Sc./ M.S. in Science / Engineering, B. Pharm /M. Pharm.
			(iii) MBBS/MD/BDS/MDS or equivalent.
4.	Centre for Transportation Systems	M.Tech./ M.Arch./ M.Planning/ M.Des./ MBA or equivalent degree in Civil Engg./ Mechanical Engg/ Industrial Engg./ Production Engg./ Computer Science &Engg./ Chemical Engg./ Infrastructure Systems/ Biotechnology/ Architecture/ Planning/ Urban Engg./ Business Administration.	M.Tech./ M.Arch./ M.Planning/ M.Des./ MBA or equivalent degree in Civil Engg./ Mechanical Engg/ Industrial Engg./ Production Engg./ Computer Science &Engg./ Chemical Engg./ Infrastructure Systems/ Biotechnology/ Architecture/ Planning/ Urban Engg./ Business Administration/Automobile Engg./Mechatronics Engg

Table – 1

Details of Academic Programmes leading to M.Tech./M.Arch./M.U.R.P.

SI.	Academic Department/		Academic Programmes	Eligible		
N0	Department/ Centre & (Code)	Code	Name	GATE Disciplines	Minimum Educational Qualifications	
1	Architecture and Planning (ARD)	10	M.Arch.	AR	B.Arch. or its equivalent	
		11	M.U.R.P.	AR/CE	B.Arch. or its equivalent or Bachelor's degree in Civil Engg./ B.Planning	
2	Hydro and Renewable Energy (HRD)	12	M.Tech. Alternate Hydro Energy Systems	CE/AG/CH/EE /EC/ME/PI/XE /IN	Bachelor's degree in Civil/Electrical/Mechanical/ Instrumentation/Industrial/Chemical/Electronics/ Computer/Agricultural/ Environmental Engg. or equivalent.	
		13	M.Tech. Environmental Management of Rivers and Lakes	CE/AG/CH/EE /ME/PI/XE/AR /CY/BT/PH/M A/XL/EY	Bachelor's degree in Civil/Electrical/Mechanical/ Industrial/ Chemical/Agriculture/ Environmental Engg./Biotechnology/Arch. /Town Planning or its equivalent or Master in Science in any subject with Mathematics at graduation level.	
3	Chemical Engineering (CHD)	14	M.Tech. Chemical Engineering	СН	B.Tech./B.E. in Chemical Engineering/ Chemical Technology	
4	Civil Engineering (CED)	16	M.Tech. Environmental Engg.	CE/CH	Bachelor's degree in Civil Engg./Chemical Engg./Environmental Engg. or equivalent	
		17	M.Tech. Geomatics Engg.	CE/AR/CS/EC /EE /AG/MN	Bachelor's degree in Civil Engg./Electronics Engg./Electrical Engg./Computer Science/ Information Technology/Marine Engg./Mining Engg./Environmental Engg/Agricultural Engg/ Communication Engg/Architecture or equivalent	
		18	M.Tech. Geotechnical Engg.	CE/MN	Bachelor's degree in Civil Engg./ Infrastructure/ Construction Engineering or equivalent.	
		19	M.Tech. Hydraulic Engg.	CE	Bachelor's degree in Civil Engg. or equivalent.	
		20	M.Tech. Structural Engg	CE	Bachelor's degree in Civil Engg. or its equivalent.	
		21	M.Tech. Transportation Engg.	CE	Bachelor's degree in Civil Engg. or its equivalent.	
5	Earthquake Engineering	22	M.Tech. Soil Dynamics	CE	Bachelor's degree in Civil/Structural Engg. or equivalent.	
	(EQD)	23	M.Tech. Structural Dynamics	CE	Bachelor's degree in Civil/Structural Engg. or equivalent.	
		24	M.Tech. Seismic Vulnerability and Risk Assessment	CE	Bachelor's degree in Civil/Structural Engg, or equivalent.	
6	Electrical Engineering (EED)	25	M.Tech. Electric Drives & Power Electronics	EE	Bachelor's degree in Electrical Engg. or its equivalent.	
		26	M.Tech. Instrumentation and Signal Processing	EE/EC/IN	Bachelor's degree in Electrical/Electronics & Communication/Instrumentation Engg. or its equivalent.	
		27	M.Tech. Power System Engg.	EE	Bachelor's degree in Electrical Engg. or its equivalent.	
		28	M.Tech. Systems and Control	EE/EC/IN	Bachelor's degree in Electrical Engg. or Electronics & Communication/Instrumentation Engg. or its equivalent.	

SI.	Academic	Α	cademic Programmes	Eligible GATE	Minimum Educational Qualifications
N0	Department/ Centre & (Code)	Code	Name	Disciplines	
7	Electronics and Communication Engineering (ECD)	29	M.Tech. Communication Systems	EC	Bachelor's degree in Electronics & Communication Engg. or its equivalent
		30	M.Tech. R.F. & Microwave Engg	EC	Bachelor's degree in Electronics & Communication Engg. or its equivalent
		31	M.Tech. Microelectronics and VLSI	EC/PH	Bachelor's degree in Electronics & Communication Engg. or its equivalent M.Sc. (Physics); M.Sc. (Electronics)
8	Computer Science and Engg (CSD)	32	M.Tech. Computer Science & Engg.	CS	B.E./B.Tech. degree in Computer Science & Engineering/ Information Technology
9	Hydrology (HYD	33	M.Tech. Hydrology	CE/AG/GG/XE/ PH/ EY	Bachelor's degree in Civil/ Agricultural Engg./ Hydrology or equivalent. M.Sc./M.Tech. in Chemistry/Geology/ Geophysics/ Applied Geology/Applied Geophysics/Physics/ Meteorology/ Geography Atmospheric Physics/Environmental Science with Mathematics in B.Sc. as one of the subjects or M.Sc. (Master's) degree in Statistics with Physics or Mathematics at B.Sc. or M.Sc. degree in Mathematics with Physics in B.Sc. or its equivalent.
10	Mechanical and Industrial	34	M.Tech. CAD, CAM & Robotics	ME/PI	Bachelor's degree in Mechanical/Industrial/Production Engg. or its equivalent
	Engineering (MED)	35	M.Tech. Machine Design Engg.	ME/PI	Bachelor's degree in Mechanical/Industrial/Production Engg. or its equivalent
		36	M.Tech. Production & Industrial Systems Engg.	ME/PI	Bachelor's degree in Mechanical/ Industrial/Production Engg. or its equivalent
		37	M.Tech. Thermal Engg	ME/PI	Bachelor's degree in Mechanical/Industrial/Production Engg or its equivalent
		38	M.Tech. Welding Engg.	ME/PI	Bachelor's degree in Mechanical/Industrial/Production Engg. or its equivalent
11	Metallurgical and Materials Engineering (MTD)	39	M.Tech. Industrial Metallurgy	MT/ME/PI/XE	B.Tech./B.E. in Metallurgy/Materials Engineering/ Mechanical Engineering/Production Engg/ Production and Industrial Engg /Ceramic Engineering
		40	M.Tech. Materials Engg.	MT/PH/ME/PI/ CY/XE	B.Tech./B.E. in Metallurgy/Materials Engineering, Mechanical Engineering/Production Engineering/Production and Industrial Engg /Ceramic Engineering/Polymer Engg./Nanotechnology; or M.Sc. in Physics/Chemistry /Material Science/Polymer / Nanotechnology with Mathematics course at B.Sc. level
12	Paper Technology Saharanpur Campus(PPD)	41	M.Tech. Pulp & Paper	CH/ME/BT/TF/ EY	Bachelor's degree in Pulp & Paper Engg./ Chemical Engg./ Mechanical Engg./ Polymer Engg./ Cellulose Technology/ Biotechnology or equivalent. Note: The two years post B.Sc. diploma awarded by the IPT/DPT plus a minimum of two years relevant experience in Industry/ Research Organization will be considered equivalent to a B.Tech/B.E. degree
		42	M.Tech Packaging Technology	CH/BT/CY/ME/ TF	M.Sc. in Chemistry(PCM at B.Sc. level)/ Polymer Science (PCM at B.Sc. level)/ or B.Tech. in Pulp and Paper Technology/ Biotechnology/ Chemical Engg Chemical Technology/ Polymer Engg/ Process Engg/ Mechanical Engg/ Production Engg/ Packaging Technology/Printing Technology/ Textile Technology/ PG Diploma in Packaging/ Biochemical Engg. Industry sponsored candidate with aforesaid academic qualifications along with two years experience in Paper/Polymer /Packaging Technology. Additional Requirement: GATE qualified except for industry sponsored candidate.

SI.	Academic			Eligible GATE	Minimum Educational Qualifications	
N0	Department/ Centre & (Code)	Code	Name	Discipline		
13	Water Resources Development & Management (WRD)	43	M.Tech. Irrigation Water Management	CE/AG	Bachelor's degree in Civil Engg. or its equivalent / Agricultural Engg. or M.Sc. Agriculture in Agronomy, Soil Science, Agrometeorology, with Mathematics as one of the papers at the level of B.Sc./B.Sc. Agriculture.	
		44	M.Tech. Water Resources Development	CE/EE/ME	Bachelor's degree in Civil/Electrical/Mechanical/ Electronics & Telecommunication Engg. or equivalent.	
14	Physics (PHD)	46	M.Tech. Solid State Electronic Materials	PH/EE/EC/MT	B.Tech. (Engg. Physics)/M.Sc. (Physics)/Bachelor's degree in Electrical/Electronics/Metallurgical Engg. or its equivalent.	
		47	M.Tech. Photonics	PH/EE/EC/MT/	M.Sc. (Physics/ Electronics/ Applied Physics/ Photonics/ Engineering Physics), B.Tech. (Engineering Physics/ Electronics/ Communication/ Electrical/ Instrumentation/ materials/ Metallurgy/ Nanotechnology)	
15	Nanotechnology (NTC)	48	M.Tech. Nanotechnology	MT/ME/EC/CH/ BT/CE/CY/PH/ XL	B.Tech. (Met. & Mat. Engg./Mech. Engg./ E&C/Electronics/ Chemical Engg./ Biotechnology/ Civil/ Biochemical Engineering/ Biomedical Engineering/ Bioengineering/ Polymer Engg/ Polymer Technology/ Pharmaceutical Technology/Industrial Biotechnology/ Nanotechnology) or equivalent; M.Sc. (Physics/ Chemistry/ Biotechnology/ Life Science/ nanotechnology), with Maths at 10+2 or higher level.	
16	Disaster Mitigation and Management (DMC)	49	M.Tech. Disaster Mitigation and Management	CE/ME/PI/CS/ CH/AR/GG/PH/ MA/XL/XE/EY/ BT	B,Tech. (Civil, Structural, Mechanical, Industrial, Chemical Engineering and Biotechnology /Computer Science & Engineering or equivalent,; B.Arch. & B. Planning, M.Tech. in Geological Technology and Geophysical Technology or equivalent, M.B.A.; M.C.A.; M.Sc. in Physics/ Geophysics/ Geology/ Mathematics, Computer Science, Environmental Sciences, or equivalent (with Maths in B.Sc.).	
17	Transportation Systems (TSC)	50	M.Tech. Infrastructure Systems	CE/ME/PI/CH/ EE/EC/CS/AR	B.E./B.Tech. (Civil/ Mechanical & Industrial/ Electrical/ Chemical Engineering/Electronics & Communication Engg/ Computer Science and Information Technology/ B.Arch./ B.Planning/ B.Design/ Automobile Engg./ Mechatronics Engg. or equivalent.	
18	Biotechnology (BTD)	51	M.Tech. Bioprocess Engineering	CH/BT/AG/XE/ TF	B.E./B.Tech. or equivalent degree in Chemical Engineering/ Biochemical Engg/ Bioprocess Engg/ Chemical Technology/ Food Technology/ Agricultural Engg./ Biomedical Engg/ Bioengineering/ Polymer Engg./ Polymer Technology/ Plastic Technology/ Paper Technology/Ceramic Technology/ Petrochemical Engineering/ Textile Engineering/ Biotechnology or in allied field with maths in 10+2 level.	

Item No. 81.20: To consider the changes in the selection criteria for MBA Admission from 2020-21 onwards.

IAPC in its 78th meeting recommended to adopt Joint MBA Admission from 2020-21 onwards along with other participating IITs (IIT Madras, IIT Delhi, IIT Kharagpur) for the convenience of candidates.

IAPC also recommended the proposed selection criteria for MBA Admission from 2020-21 onwards:

Existing Selection Criteria	Proposed Selection Criteria	Proposed Selection Criteria for IIT Graduates with CGPA 7 and above
 (a) CAT Percentile: 65%; (b) Group Discussions 10%; (c) Interview 20%; (d) Work experience 5%. 	 (a) CAT percentile: 60% (b) Written Aptitude Test (WAT):10% (c) Personal Interview (PI): 25% (d) Relevant Work 	(a) CAT percentile: Waived off (b) Written Aptitude Test (WAT): 40 % (c) Personal Interview (PI): 60 %

Item No. 81.21: To consider allowing deferred admission to:

- (A) International Students and Sponsored Indian Students in Master Programmes (M.Tech/M.Arch./ MURP /MSc./MBA)
- (B) International Students in Ph.D. Programme
- (a) IAPC in its 76th meeting recommended the deferred admission to the International Students in Masters Programmes (M.Tech/M.Arch./MURP/ MSc./MBA) upto the next academic session. This will enable the eligible candidates to take admission in Masters Programmes who are not able to get themselves registered due to delay in passport, visa, etc.

Further, IAPC also recommended allowing the deferred admission to sponsored Indian students.

(b) The IRC in its 36th meeting recommended for deferment of admission in Ph.D. programme for international candidates upto the next academic semester. In the case of Indian nationals it is recommended to consider on case-to case basis.

Item No. 81.22: To consider addressing similarity-check report alerts at the time of submission of Bachelors, Masters and PhD thesis.

Chairman IAEC was appointed vide Notification No. IITR/ES(Wing 'A')/4499/E-4759 dated 20.12.2019. As per the mandate, the Chairman will also be instrumental in preparing policy documents for the consideration of Senate/Board, as and when required. He/she may co-opt additional members as and when required. The following faculty members were coopted for this agenda item: Prof. Sugata Gangopadhyay, Prof. B.K. Kaushik, Prof. Aalok Misra, Prof. Sparsh Mittal, Prof. Partha Roy and Prof. K.R.J. Thomas. The current practice was examined and it was proposed that while similarility with earlier documents does not necessarily mean plagiarism, quantifying an acceptable level of similarity is not in the interest of the Institute. In fact, in several high profile cases, the levels of similarity were very low and still they were classified as instances of plagiarism. An appropriate matching software can at best alert possible instances of plagiarism. The report generated by the software has to be checked by a person familiar with the subject of the thesis to see whether any action needs to be taken to address the instances of similarity pointed out in the report.

In view of the above, the following recommendations are made for the consideration and approval of the Senate.

- 1. All Bachelors, Masters and PhD theses should be subject to a similarity-check using appropriate software. With the help of the supervisor, the candidate should address the similarities flagged by the software which merit corrective action.
- 2. Point 10 of Ph.D. Thesis submission form "Copy of plagiarism check enclosed" be revised to "Copy of similarity-check report enclosed".
- 3. The Bachelors and Masters thesis/report similarity-check reports be submitted to the concerned DAPC/CAPC.

Item No.81.23: To report the MoU for Dual-Doctoral Degree Program between IIT Roorkee and Michigan State University, USA.

The IRC in its 36th meeting held on December 24, 2019 accepted the proposal of formalising the MoU for Dual-Doctoral Degree Program between IIT Roorkee and Michigan State University, USA.

Item No. 81.24: To report the corrigendum in the Academic Calendar for Spring Semester 2019-20 approved by the Chairman, Senate.

The following amendment has been carried out in the Academic Calendar for Spring Semester 2019-20:

Apr 05, 2020 (Saturday) - A teaching day

to be read as

Apr 04, 2020 (Saturday) - A teaching day

Item No. 81.25:To report the approval of the revised structure of Department of Earth Sciences including minor specialization.

The Chairman Senate, on the recommendations of 76th IAPC held on 07.11.2019, approved the inclusion of minor specialization in the program structures of IMT(GP) and IMT(GT) of the Department of Earth Sciences so that the minor specialization option could be opened to the student of the Department of Earth Sciences in the Spring Semester 2019-20 itself.

Item No. 81.26: To report approvals accorded by the Chairman Senate on scholarships etc:

- (1) Sh. Devatv Singh Ji (formerly Sh. Atar Singh) Memorial Scholarship: Col. K. S. Dahiya has created a corpus for merit-cum means scholarship of Rs.10,000/-per year to two UG students of any year, one from Civil Engineering branch and other one from any engineering branch. The awardees will be selected as per the process adopted by SCSP to award MCM scholarships of the Institute.
- (2) **Shri Shankar Kumar Nath Award**: Prof. S. K. Nath, IIT Roorkee has created a corpus to give merit-cum means scholarship of Rs10,000/- per year to a student of of Department of Metallurgical and Materials Engineering, with highest CGPA at the end of 2nd year. The awardee will be selected as per the process adopted by SCSP to award MCM scholarships of the Institute.
- (3) **Jaikamal MCM Scholarship**: Mr Jai P. Agarwal, an alumnus of University of Roorkee (BE 1959 Civil Engg) has created a corpus for 4 MCM scholarships of Rs10,000/-each for Civil Engineering students, one from each year from I to IV year. The awardees will be selected as per the process adopted by SCSP to award MCM scholarships of the Institute.
- (4) Jai Kamal Award for Best Athlete of the Year: Mr. Jai P. Agarwal, an alumnus of University of Roorkee (BE 1959 Civil Engg) has created a corpus to award a cash prize of Rs10,000/- to the best athlete, one each in male and female category. The award is open to all the students of the institute.

UNDER ANY OTHER ITEM:

Item No. 81.27: To consider the Seat Matrix for MBA admission from the academic year 2020-21 onwards.

The IAPC in its 76th meeting held on 7.11.2019 recommended the proposal. Details are given in **Appendix-A**.

Proposed Intake for MBA 2020 Admission (including 10% EWS category seats)

DEPTT	CODE	PROGRAMME	TOTAL	Increased 25%	Total seats with 25% increase	GEN	GEN-EWS	OBC	SC	ST
Management Studies (BM)	810	МВА	95	24	119	48	12	32	18	9