

भारतीय प्रौद्योगिकी संस्थान रुड़की
रुड़की – 247 667 (भारत)
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE - 247 667 (INDIA)



सीनेट की अट्टानवेवीं बैठक हेतु कार्यसूची
AGENDA FOR THE 98th MEETING
OF THE SENATE

बैठक सं०	:	अट्टानवेवीं
MEETING NO.	:	98th
स्थान	:	सीनेट हॉल, भा० प्रौ० सं० रुड़की
VENUE	:	Senate Hall, IIT Roorkee
दिनांक	:	11 अक्टूबर 2023
DATE	:	11th October 2023
समय	:	04.00 बजे अपरान्ह
TIME	:	04.00 P.M.

भारतीय प्रौद्योगिकी संस्थान रुड़की
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कार्यसूची / AGENDA

मुद्दा सं०/ Item No.	विवरण / Particulars	पृष्ठ / Page(s)
98.1	सीनेट की दिनांक 24.07.2023 को आयोजित हुई 97वीं बैठक के कार्यवृत्त की पुष्टि करना। To confirm the minutes of the 97 th Senate meeting held on 24.07.2023.	1
98.2	सीनेट की दिनांक 24.07.2023 को आयोजित हुई 97वीं बैठक में लिए गए निर्णयों के क्रियान्वयन पर की गई कार्यवाही को रिपोर्ट करना। To report on the actions taken to implement the decisions of the Senate taken in its 97 th meeting held on 24.07.2023.	2-5
98.3	नाम बहाली और कार्यक्रम में निरंतरता के संबंध में निम्नलिखित छात्रों के अनुरोध पर विचार करना। <ol style="list-style-type: none"> 1. गया प्रसाद मीना (एन.नं.19113045), बी.टेक (सीई), चतुर्थ वर्ष 2. दीप्तांशु राय (एन.नं.21115047), बी.टेक. (ईई), तृतीय वर्ष 3. अनमोल राज (एन.सं.2113019) बी.टेक.(सीई), तृतीय वर्ष 4. अंकित गुप्ता (एन.सं.20117024) बी.टेक (एमई), चतुर्थ वर्ष To consider the request of following students regarding name restoration and continuation in programme: <ol style="list-style-type: none"> 1. Gaya Pd. Meena (Enr. No. 19113045), B.Tech.(CE), IV Yr 2. Deeptanshu Rai (Enr. No. 21115047), B.Tech. (EE), III Yr 3. Anmol Raj (Enr. No. 21113019), B.Tech. (CE), III Yr 4. Ankit Gupta (Enr. No. 20117024), B.Tech. (ME), IV Yr 	6-8
98.4	निम्नलिखित पीएचडी छात्रों के समय विस्तार के अनुरोध पर विचार करना। अ. श्री दीपक मौर्य (एन.नं.13928010) डब्ल्यूआरडीएम विभाग ब. श्री सप्तर्षि कोले, (एन. नं 14902011) वास्तुकला एवम् नियोजन विभाग	9-22

	<p>To consider the requests for time extension of the following Ph.D. students:</p> <ol style="list-style-type: none"> 1. Mr. Deepak Maurya (En. No. 13928010), Deptt. of WRDM. 2. Mr. Saptarshi Kolay, (En. No. 14902011), Deptt. of Architecture & Planning 	
98.5	<p>छात्र फीडबैक प्रणाली की समीक्षा हेतु गठित समिति की रिपोर्ट पर विचार करना। To consider the report of the Committee constituted to review the Students' Feedback System.</p>	23-40
98.6	<p>पीएचडी कार्यक्रम (स्प्रिंग सेमेस्टर) 2023 में प्रवेश के लिए सीट मैट्रिक्स पर विचार करना। To consider the seat matrix for admission into the Ph.D. programmes (Spring Semester) 2023.</p>	41-42
98.7	<p>पीएचडी कार्यक्रमों में प्रवेश के लिए न्यूनतम शैक्षणिक योग्यता (एमईक्यू) में संशोधन पर विचार करना। To consider the revision in Minimum Educational Qualification (MEQ) for admission to Ph.D. Programmes.</p>	43-45
98.8	<p>निम्नलिखित नये स्थापित केन्द्रों में पीएचडी कार्यक्रम में प्रवेश के लिए एमईक्यू पर विचार करना।</p> <ol style="list-style-type: none"> 1. स्तत ऊर्जा केंद्र 2. डैम्स के लिए अन्तराष्ट्रीय उत्कृष्टता केंद्र। 3. अंतरिक्ष विज्ञान एवम् प्रौद्योगिकी केंद्र। <p>To consider the MEQs for the admission into the Ph.D. programme in the following newly established centres:</p> <ol style="list-style-type: none"> 1. Centre for Sustainable Energy. 2. International Centre of Excellence for DAMS. 3. Centre for Space Science and Technology. 	46
98.9	<p>इलेक्ट्रॉनिक्स एवम् संचार इंजीनियरिंग विभाग में पीएचडी कार्यक्रम में प्रवेश के लिए न्यूनतम शैक्षणिक योग्यता में संशोधन पर विचार करना। To consider the revision in Minimum Education Qualification for admission to Ph.D. programme in the Electronics & Communication Engineering Department.</p>	47
98.10	<p>उद्योग पेशेवरों के लिए पार्ट टाइम एम.टेक (वीएलएसआई) से पीएचडी कार्यक्रम के स्विच-ओवर के लिए इलेक्ट्रॉनिक्स और संचार इंजीनियरिंग विभाग के प्रस्ताव पर विचार करना। To consider the proposal of the Department of Electronics and Communication Engg., for switch-over of Part Time-M.Tech. (VLSI) for Industry Professionals to Ph. D. programme.</p>	48

98.11	रोलिंग विज्ञापन के माध्यम से पीएचडी प्रवेश के लिए दिशानिर्देशों में संशोधन पर विचार करना। To consider the revision in guidelines for Ph.D. Admission through Rolling Advertisement.	49-51
98.12	वार्षिक वर्ष 2024-25 से जैम के माध्यम से एम.एस.सी (बायोसाइंसेज और बायोइंजीनियरिंग) शुरू करने और एम.एस.सी.(बी.टी) गेट बी के माध्यम से बंद करने के लिए बायोसाइंसेज और बायोइंजीनियरिंग विभाग के प्रस्ताव पर विचार करना। To consider the proposal of the Department of Biosciences and Bioengineering to introduce M.Sc. (Biosciences & Bioengineering) through JAM from the AY 2024-2025 and to discontinue M.Sc. (BT) through GAT B.	52-54
98.13	एम.टेक (उत्पादन और औद्योगिक सिस्टम इंजीनियरिंग) के आठ छात्रों को 67 क्रेडिट के साथ डिग्री की अनुमति देने के मैकेलिकल और औद्योगिक इंजीनियरिंग विभाग के प्रस्ताव पर विचार करना। To consider the proposal of the Department of Mechanical and Industrial Engineering to allow degree with 67 credits to eight students of M.Tech. (Production and Industrial Systems Engineering).	55
98.14	पेशेवर/विशेष पाठ्यक्रम में आधे सेमेस्टर के लिए एक/दो क्रेडिट पीजी स्तर के बहु-विषयक पाठ्यक्रम बास्केट (एमडीसी) शुरू करने के प्रस्ताव पर विचार करना। To consider the proposal to introduce a Multi-disciplinary Course Basket (MDC) for one/two credit PG level professional/specialized courses to be offered for half a semester in the curriculum.	56-63
98.15	ईक्षा केंद्र के संशोधित नाम के प्रस्ताव पर विचार करना। To consider the proposal of the revised name of the IKSHA Centre.	64
98.16	अध्यक्ष, सीनेट द्वारा दी गई मंजूरी को रिपोर्ट करना। To report the approval accorded by the Chairman, Senate.	65-68
अन्य मुद्दे अध्यक्ष की अनुमति से/Under any other item with the permission of the Chair.		

Item No. 98.1: To confirm the minutes of the 97th Senate meeting held on 24.07.2023.

The minutes of the 97th Senate meetings held on 24.07.2023 were circulated to the members vide e-mail dated 28.08.2023. No comments have been received.

The Senate may consider and confirm the said minutes.

Item No. 98.2: To report on the actions taken to implement the decisions of the Senate taken in its 97th meeting held on 24.07.2023.

Item No.	Reference to the Senate minutes	Extracts of the Minutes	Status of action taken																				
97.3	To consider award of Degrees to the students who have qualified for the award of Degrees in various disciplines / courses for the session 2022-2023.	<p>The Senate considered the item and recommended to the Board for the approval to award the following Degrees to 1916 students who have duly qualified for the same:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Name of the Degrees</th><th>No. of students</th><th>No. of students recommended for receiving Degrees</th></tr> </thead> <tbody> <tr> <td>1.</td><td>B.Arch./B.Tech./I.D.D./ I.M.T. / I.M.S. (Appendix-A)</td><td>1076</td><td>M-896 F-180</td></tr> <tr> <td>2.</td><td>M.Arch. / M.Tech. / M.Sc. / M.U.R.P./M.B.A. (Appendix-B)</td><td>686</td><td>M-529 F-157</td></tr> <tr> <td>3.</td><td>Ph.D. Degree/Ph.D.-Dual Degree (Appendix-C)</td><td>154</td><td>M-97 F-57</td></tr> <tr> <td></td><td>Total</td><td>1916</td><td>M-1522 F-394</td></tr> </tbody> </table>	Sr. No.	Name of the Degrees	No. of students	No. of students recommended for receiving Degrees	1.	B.Arch./B.Tech./I.D.D./ I.M.T. / I.M.S. (Appendix-A)	1076	M-896 F-180	2.	M.Arch. / M.Tech. / M.Sc. / M.U.R.P./M.B.A. (Appendix-B)	686	M-529 F-157	3.	Ph.D. Degree/Ph.D.-Dual Degree (Appendix-C)	154	M-97 F-57		Total	1916	M-1522 F-394	Recommendations were approved by the Board.
Sr. No.	Name of the Degrees	No. of students	No. of students recommended for receiving Degrees																				
1.	B.Arch./B.Tech./I.D.D./ I.M.T. / I.M.S. (Appendix-A)	1076	M-896 F-180																				
2.	M.Arch. / M.Tech. / M.Sc. / M.U.R.P./M.B.A. (Appendix-B)	686	M-529 F-157																				
3.	Ph.D. Degree/Ph.D.-Dual Degree (Appendix-C)	154	M-97 F-57																				
	Total	1916	M-1522 F-394																				
97.4	To consider the following Degree with a mention of specialization for the award in the Convocation-2023.	<p>The Senate considered the item and approved the same as recommended by the IAPC.</p> <p>Further, the Senate suggested that the word “विषय” in the hindi text be dropped from the next year.</p>	Will be incorporated in subsequent convocation.																				

97.5	To consider the proposal of Department of Chemical Engineering to revise the admission criteria of M.Tech. Chemical Engg.	<table><tr><th>Programme</th><th>Revised admission eligibility criteria</th></tr><tr><td>M.Tech. Chemical Engg</td><td>B.Tech./B.E. in Chemical Engineering/ Chemical Technology /Allied disciplines who qualified GATE in Chemical Engineering.</td></tr></table>	Programme	Revised admission eligibility criteria	M.Tech. Chemical Engg	B.Tech./B.E. in Chemical Engineering/ Chemical Technology /Allied disciplines who qualified GATE in Chemical Engineering.	The Senate considered the proposal and approved the following admission criteria:	Notified		
Programme	Revised admission eligibility criteria									
M.Tech. Chemical Engg	B.Tech./B.E. in Chemical Engineering/ Chemical Technology /Allied disciplines who qualified GATE in Chemical Engineering.									
97.6	To consider the proposal for revision in the Minimum Eligibility Qualification (MEQ) for admission into the Ph.D. programme of the Department of Chemical Engineering.	<table><tr><th>Programme</th><th>Revised Qualification</th><th>Minimum Eligibility</th></tr><tr><td>Ph.D. in Chemical Engineering</td><td>B.Tech. / M.Tech./ M.Sc. or equivalent in Chemical Engineering/ Chemical Technology/Allied disciplines in Engineering and Sciences with GATE /UGC /CSIR or any equivalent national level examination.</td><td></td></tr></table>	Programme	Revised Qualification	Minimum Eligibility	Ph.D. in Chemical Engineering	B.Tech. / M.Tech./ M.Sc. or equivalent in Chemical Engineering/ Chemical Technology/Allied disciplines in Engineering and Sciences with GATE /UGC /CSIR or any equivalent national level examination.		The Senate considered the proposal and approved the following Minimum Eligibility Qualification:	The revised MEQ will be incorporated.
Programme	Revised Qualification	Minimum Eligibility								
Ph.D. in Chemical Engineering	B.Tech. / M.Tech./ M.Sc. or equivalent in Chemical Engineering/ Chemical Technology/Allied disciplines in Engineering and Sciences with GATE /UGC /CSIR or any equivalent national level examination.									
97.7	To consider the proposal to revise/frame the regulation No. 30 (3.a) w.r.t. the 'Termination on the Academic Performance' for EMBA and MBA.	<table><tr><th>Regulation No.30(3.a)</th><td>A student shall be allowed to register for courses as per permissible range of credits for term based EMBA/MBA program. The SGPA will be calculated at the end of two terms (one semester). A student is required to secure a SGPA of not less than 4.5 at the end of two terms. The registration of a student shall be terminated and he/she will be asked to leave the programme in case he/she is unable to fulfil the above requirements.</td></tr></table>	Regulation No.30(3.a)	A student shall be allowed to register for courses as per permissible range of credits for term based EMBA/MBA program. The SGPA will be calculated at the end of two terms (one semester). A student is required to secure a SGPA of not less than 4.5 at the end of two terms. The registration of a student shall be terminated and he/she will be asked to leave the programme in case he/she is unable to fulfil the above requirements.	The Senate considered the proposal and approved the following revision in regulation No.30 (3.a) as under:	Notified				
Regulation No.30(3.a)	A student shall be allowed to register for courses as per permissible range of credits for term based EMBA/MBA program. The SGPA will be calculated at the end of two terms (one semester). A student is required to secure a SGPA of not less than 4.5 at the end of two terms. The registration of a student shall be terminated and he/she will be asked to leave the programme in case he/she is unable to fulfil the above requirements.									

97.8	To consider the proposal to establish a new Centre i.e. Centre for Sustainable Rural Development (CSR D).	The Senate recommended the proposal to establish a new Centre i.e. Centre for Sustainable Rural Development (CSR D) to the Board of Governors for approval.	Newly created Centre as approved by the Board has been notified.				
97.9	To consider the Ph.D. admission criteria for admission to Ph.D. programme in the Centre for Sustainable Energy.	<div>The Senate considered the item and approved the following eligibility criteria:</div> <table><tr><th>Programme</th><th>Admission eligibility criteria</th></tr><tr><td>Ph.D. in Centre for Sustainable Energy</td><td>B.Arch. / M.Arch. / B.Plan. / M.Plan. / MURP/B.E./B.Tech./M.E./M.Tech./M.S c. in any branch of Engineering & Science with GATE/UGC/CSIR or any equivalent national level examination.</td></tr></table>	Programme	Admission eligibility criteria	Ph.D. in Centre for Sustainable Energy	B.Arch. / M.Arch. / B.Plan. / M.Plan. / MURP/B.E./B.Tech./M.E./M.Tech./M.S c. in any branch of Engineering & Science with GATE/UGC/CSIR or any equivalent national level examination.	The approved MEQ will be incorporated.
Programme	Admission eligibility criteria						
Ph.D. in Centre for Sustainable Energy	B.Arch. / M.Arch. / B.Plan. / M.Plan. / MURP/B.E./B.Tech./M.E./M.Tech./M.S c. in any branch of Engineering & Science with GATE/UGC/CSIR or any equivalent national level examination.						
97.10	To consider the medals, awards and cash prizes for Convocation-2023	<div>The Senate considered the recommendations of the Award Committee as presented by Chairman, SCS P and approved the same for the Awards, Medals and Cash Prizes for Convocation 2023.</div> <div>Further, the senate made the following observations:</div> <div>1. Review the selection criteria to limit the Department Gold medal maximum one for each Department.</div> <div>2. Excellence in Doctoral Research Award should be decided by the IRC/DoAA.</div> <div>3. Best Project Award should be finalized at department level with a review of its selection criteria to limit maximum one student for each project, irrespective of number of students in the project.</div> <div>The Senate also acknowledged the generous support of the donor Prof. Kulshreshtha for constituting the award.</div>	Informed to Chairman SCS P				

97.12	<p>To consider the requests of the following students regarding continuation of programme:</p> <ol style="list-style-type: none"> 1. Mr. Kanishk Malav, En. No.17117040, B.Tech.(ME), IV yr. 2. Mr. Saket Kumar Singh, En. No.16312022, Int.M.Sc.(MA), V yr. 	<p>The Senate considered and accepted the requests of the following students as recommended by the IAPC for continuation of programme:</p> <ol style="list-style-type: none"> 1. Mr. Kanishk Malav, En. No.17117040, B.Tech.(ME), IV yr. 2. Mr. Saket Kumar Singh, En. No.16312022, Int.M.Sc.(MA), V yr. <p>The extension of two Semesters to complete the course credits of 18 & 10, respectively, is approved.</p>	Notified
*97.11 Reporting item.			

Item No. 98.3: To consider the request of following students regarding name restoration and continuation in programme:

- 1. Gaya Prasad Meena (Enr. No. 19113045), B.Tech.(CE), IV Yr**
- 2. Deeptanshu Rai (Enr. No. 21115047), B.Tech. (EE), III Yr**
- 3. Anmol Raj (Enr. No. 21113019), B.Tech. (CE), III Yr**
- 4. Ankit Gupta (Enr. No. 20117024), B.Tech. (ME), IV Yr**

As per the existing Regulation, the names of the students are removed from the institute roll provided they fail to earn minimum $14n$ credits (where, n =Number of Semesters completed). The names of the above-mentioned students got removed accordingly. The IAPC, in its 132nd meeting held on 23.08.2023, considered the requests of the students on recommendation of the concerned departments. The IAPC recommended the request of the student at Ser. No. 1, while it did not recommend the requests of the students at Ser. No. 2, 3 and 4. Details of the students are given at **Appendix-A**.

The student at Sl. No. 2 submitted the detailed medical document in support of his application after the IAPC.

The above is submitted for the consideration and approval of the Senate.

S.No.	Name	Details	Recommendations/ Remarks
Category-A: Name Restoration and continuation of programme			
1.	Gaya Prasad Meena (Enr. No. 19113045) B.Tech. (CE), IV Yr (04 years completed)	<p>-Request received on Aug 01, 2023 for name restoration on medical grounds (eye injury) due to which he could not appear in exams of 6th and 8th semesters.</p> <p>-NSO vide OM No. Acad./4734/NSO-14n (2022-23) dated July 26, 2023</p> <p>-SGPA: 1.714, 6.667, 4.300, 6.143, 4.571, 0, 1.826, 2.308</p> <p>-CGPA: 1.714, 3.515, 4.927, 5.236, 5.012, 4.202, 3.817, 3.548</p> <p>-Total earned credits: 108, Required credits: 112</p> <p>-Remaining credits to complete degree: 59</p>	<p>Head and Chairperson, DAPC: Forwarded</p> <p>-Medical documents submitted</p> <p>CMO: Forwarded to mercy committee for kind consideration on the basis of severity of sufferings.</p> <p>IAPC: Recommended</p>
2.	Deeptanshu Rai (Enr. No. 21115047) B.Tech. (EE), III Yr	<p>-Request received on Aug 16, 2023 for continuation of programme as the NSO under 14n.</p> <p>-Continuous medical challenges</p> <p>-SGPA: 7.333, 2.000, 0.000, 0.000</p> <p>-CGPA: 7.333, 5.027, 3.875, 2.735</p> <p>-Total earned credits: 25, Required credits: 56</p> <p>-Remaining credits to complete degree: 135</p>	<p>Head and Chairperson, DAPC: Recommended</p> <p>IAPC: Not Recommended</p>
3.	Anmol Raj (Enr. No. 21113019) B.Tech. (CE), III Yr	<p>-Request received on Aug 14, 2023 for continuation of programme as the NSO under 14n.</p> <p>-Family problems</p> <p>-SGPA: 6.333, 3.667, 0.762, 2.920</p> <p>-CGPA: 6.333, 4.911, 3.591, 3.407</p> <p>-Total earned credits: 54, Required credits: 56</p> <p>-Remaining credits to complete degree: 111</p>	<p>Head and Chairperson, DAPC: Forwarded</p> <p>IAPC: Not Recommended</p>

4.	Ankit Gupta (Enr. No. 20117024) B.Tech. (ME), IV Yr	<p>-Request received on Aug 21, 2023 for continuation of programme as the NSO under 14n.</p> <p>-As per student, one week before ETE he got cut in his right hand thumb.</p> <p>-SGPA: 4.905, 2.400, 1.800, 6.600, 0.667, 2.880</p> <p>-CGPA: 4.905, 3.543, 3.015, 3.849, 3.402, 3.407</p> <p>-Total earned credits: 76, Required credits: 84</p> <p>-Remaining credits to complete degree: 87</p>	<p><u>Head and Chairperson, DAPC:</u></p> <p>Forwarded</p> <p>-Medical documents submitted</p> <p>IAPC: Not Recommended</p>
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Item No. 98.4: To consider the requests for time extension of the following Ph.D. students:

1. Mr. Deepak Maurya (En. No. 13928010), Deptt. of WRDM.

Mr. Deepak Maurya (En. No. 13928010), was registered as full time Ph.D. student in WRDM Department on 01st January, 2014. He completed candidacy requirements on 09th October, 2014. He got his Ph.D. programme converted into part time w.e.f. 05th January, 2016. On the recommendations of 61st IRC held on 8th February 2023, he was granted time extension to submit thesis up to 30th June 2023, by the chairman Senate on behalf of the Senate. **(Appendix-A)**

He has again requested, with Special SRC recommendations, for time extension upto 31st December, 2023. **(Appendix-B)**

2. Mr. Saptarshi Kolay, (En. No. 14902011), Deptt. of Architecture & Planning

Mr. Saptarshi Kolay, was registered as part-time Ph.D. student in the Architecture and Planning Dept. on 05.01.2015.

Mr. Saptarshi Kolay's name was struck off from the Institute rolls (vide O.M. No. Acad/20/REG./Autumn/2019-20 dated 06.08.2019) as academic registration for Autumn Semester 2019-20 was not completed; his name was later re-instated based on his mercy appeal. His registration was again terminated vide O.M. No. Research/1996/PF dated Nov. 11, 2021 due to non-payment of semester fees (Autumn 2021-22). His mercy appeal dated 21.2.23 was considered by the Senate in its 94th meeting and approved his academic reinstatement with a warning.

Now, Mr. Saptarshi Kolay has requested for time extension up to 31.12.2023 for submitting his Ph. D. thesis. This has been duly recommended by the Special SRC of the Department of Architecture and Planning.

His above request was placed before the 64th IRC meeting held on 25.8.2023 & 31.8.2023 vide item No.64.2.3.

Based on the IRC recommendation the opinion of the DoFA was obtained, as given below:

“Mr.Saptarshi Koley joined the post of Assistant Professor against the Advt. No. Estt.(A)/1064/A-86(Fac.Adv./2013) dated 25-04-2013 (copy attached). As per Sl.No.(viii) of the advt., " In the case of faculty positions at entry level in the streams of Architecture & Planning, the requirement of Ph.D. degree has been waived off".

Further, As per BoG Resolution No.BG/37/2019(copy attached), movement of faculty of the Department of Architecture & Planning in PB-3 with AGP Rs.8000 to PB-4 with AGP Rs.9000, be given after completion of PhD.

As per the above documents, no time limit is prescribed for completing Ph.D. However, movement from AGP Rs.8000 to AGP Rs.9000, be given after completion of Ph.D.”

The 65th IRC recommended time extension for thesis submission upto 31.12.2023 to Mr. Saptarshi Kolay.

The above are submitted for the consideration and approval of the Senate.

Appendix 'A'

Item No. Senate / 98.4

**INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
ROORKEE**

No.Res/ 1514 /PF/Ph.D./DM

Dated: October 15, 2014

**Prof. & Head,
Department of WRD&M**

I have to inform you that on the recommendations of the SRC, the Dean, (Academics) has approved the following in respect of Mr. Deepak Maurya, Research Scholar working for Ph.D. Programme in your department.

He is accepted as candidate for Ph.D. programme w.e.f 09.10.2014

Topic: **EFFECT OF DIFFERENT NUTRIENT MANAGEMENT ON
GROWTH, YIELD AND QUALITY OF RICE**

Assistant Registrar (Acad.Research)

Copy to:

1. Dr. S. K. Tripathi, Professor, Department of WRD&M (Supervisor).
2. Mr. Deepak Maurya, Research Scholar, Department of WRD&M.

Assistant Registrar (Acad.Research)

भेजा/SENT

भारतीय प्रौद्योगिकी संस्थान रुड़की, रुड़की
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE, ROORKEE

नं. रिसर्च / 2913 / पी. एफ. /

दिनांक : जनवरी 12, 2016

OFFICE MEMORANDUM/कार्यालय ज्ञापन

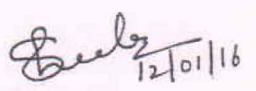
The Status of Mr. Deepak Maurya, Research Scholar (Full-Time) (En.No.13928010) working in Department of Water Resources Development & Management is hereby approved from full-time to part-time for joining of job assignment w.e.f. **05.01.2016** with the following Conditions:

- 1 He will be required to get himself registered and pay the prescribed fees in each Semester till submission of the thesis.
- 2 He will have to come to the department as and when required in connection with his Research works. He has to submit a **No Objection Certificate** from the employer and **also the name of a co-supervisor** from the host organization having Ph.D. qualification duly consented by his/her organization within one month failing which his name will be struck off from the rolls of this Institute.
- 3 The maximum period for completing the Ph.D. programme is five years from the date of registration (i.e. 01.01.2014 to 31.12.2019) failing which his registration from the roll of the Institute will be cancelled.

सहायक कुलसचिव (शैक्षणिक शोध)
Assistant Registrar (Academic Research)

Copy to:-

1. Prof. & Head, WRD & M Department.
2. Dr. S.K.Tripathi, WRD & M Department (Supervisor)
3. Deputy Registrar (Finance & Accounts)
4. Dean of Students' Welfare.
5. Chairman, CCB Office.
6. Mr. Deepak Maurya, Research Scholar, WRD & M Department.


सहायक कुलसचिव (शैक्षणिक शोध)
Assistant Registrar (Academic Research)

शैक्षणिक अफेयर्स कार्यालय
ACADEMIC AFFAIRS OFFICE
भारतीय प्रौद्योगिकी संस्थान रुड़की
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

No. Acc./Evl./1124 /Senate

Dated: March 02, 2023

Mr. Deepak Maurya,
En. No.: 13928010
Ph.D. student,
Deptt. of Water Resources Development and Management

Subject: Request for time extension for thesis submission.

On recommendation of the 61st IRC meeting held on February 08th, 2023, the Chairman, Senate, on behalf of the Senate, has approved your request for time extension to submit thesis upto June 30th, 2023.

Rajesh
Assistant Registrar
(Evaluation)

Copy through email to:

1. The Director, IIT Roorkee.
2. Head/ Chairperson DRC, Deptt. of Water Resources Development and Management.
3. Dean of Academic Affairs.
4. Assoc. Dean of Academic Affairs (Evaluation).
5. Prof. Ashish Pandey, Department of Water Resources Development and Management (Supervisor).
6. Students' personal file.



INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Special SRC Recommendations

Academic Section

T. Roorkee

6690

5/7/23

1. Name of the Ph.D. student: DEEPAK MAURYA Enrollment : 13928010
2. Department/Centre: (i) WRDM (ii) JCAR-NBSSLUP RC-Kolkata
(Where Enrolled) (Where Working)
3. Category : FTRS (IARS/EFRS/ISERS) / PTRS (P-ISIRS/P-ISERS)
4. Title of Research (In English): Effect of different nutrient management on Growth yield and nutritional quality of rice.
5. Name of Supervisor(s): (i) Prof. Ashish Pandey (WRDM)
(ii) Prof (Retd.) S. K. Tripathi (WRDM)
(iii) Dr. D. C. Nayak, Pr. Scientist (Retd.) JCAR-NBSSLUP, RC-Kolkata
6. Date of Initial Registration: 1/1/2014 Date of Candidacy: 9/10/2014
7. Is the meeting held for Mid Term Review? **YES / NO**
Period of Performance for Review: From January 2023 to June 2023
Reason of Mid Term Review _____

[Attach detailed report]

8. Is it a Special Student Research Committee Meeting? **YES / NO**
(A) Is there a change in topic? **YES / NO**
Revised Topic if YES
(In English) _____
Justification: _____
- (B) Is there a change of Supervisor(s)? **YES / NO**
Addition of Supervisor(s) _____ Date of Retirement: _____
Deletion of Supervisor(s) _____

*(Enclose Bio-data and consent of proposed supervisor and NOC from Organization in case of other than IITR)

Following information is required if proposed additional supervisor is from IITR

Name & Designation	Deptt./Center/ Organization	No. of Students Supervising Excluding this Student and Including candidate of other institution(s).						Signature of Supervisor
		Single			Jointly			
		With IITR Assistantship	Without IITR Assistantship	Other Institution(s)	With IITR Assistantship	Without IITR Assistantship	Other Institution(s)	

Enclose detailed justification in case of joint supervision or deletion of supervisor

- (C) Is there change of SRC member(s)? **YES / NO**
New SRC Member(s) _____ (Chairperson/member) Department _____
Old SRC Member(s) _____ (Chairperson/member) Department _____

AGENDA FOR THE 65TH MEETING OF IRC (ANNEXURE-02 PT.65.2.1(2))

- (D) Whether a case of probation due to course work requirement YES / NO
If YES, New Courses recommended: _____
- (E) Whether a case of up-gradation from JRF to SRF YES / NO
Date of Assessment for up-gradation: _____
Recommendation for up-gradation: _____ Recommended/ Not Recommended
(in case of recommended) Effective date of SRF : _____
(in case of not-recommended) Date of Re-assessment for SRF: _____
(Note: Assessment for JRF to SRF up-gradation shall preferably be arranged within 04 weeks of the due date of conversion i.e. after 02 years period as JRF).

- (F) (i) Semester Withdrawal on medical ground / Re-registration YES / NO
(ii) Temporary Withdrawal from Ph.D. programme (as per Rule R.8.3) YES / NO
Withdrawal period From: _____ To: _____
Reason: _____

- (G) Whether a case for extension of time after 05/06 years: YES / NO
Full-Time Research Scholars: (i) Upto 5.5 years ☐ (ii) Upto 06 years ☐
Part-Time Research Scholars: (i) Upto 6.5 years ☐ (ii) Upto 07 years ☐

Provide following details while making the above request:

Due date of submission June 2023 Previous extension, if any March 2023

Date of Proposed extension December 2023 or SC7 paper publish (which ever ear)

Reason: SC7 Paper is not published yet. Thesis writeup Completed and One NAAS paper is also published. (SC7 paper is under review)

- (H) Continuation of assistantship: (i) For 5th year ☐ (ii) Upto viva-voce examination ☐
(I) Any Other: _____

Member, SRC

on leave
Member, SRC
Dr. R. D. Singh

Supervisor-1 3/7/23

Supervisor-2

Supervisor-3

Chairperson, SRC

Chairperson, DRC/CRC

HEAD OF THE DEPARTMENT/CENTRE

DATED: Chairman, DRC

डॉ. आर. डी. ए. एम. / WRD&M
भा.प्रो.स. रुड़की / IIT Roorkee

FOR USE OF ACADEMIC AFFAIRS OFFICE

The recommendations of the Department/Centre are submitted for consideration / 8/6/23
proposed for time extension upto 31/12/2023. IRC.

Dealing Asstt./Junior Supdt./Supdt.

AR (Evaluation) DR (Academics)

APPROVED/ NOT APPROVED

* After excluding the Covid relaxation period of 02 year or month and 10 days, student will complete his 05 year on 11/02/2021

IRC
Dean of Academic Affairs
01/09/2023



33

AR & Plan

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

I.I.T. Roorkee

Dated: 14/07/23

1. Name of the Ph.D. student: Saptarshi Kolay Enrollment : 14902011
2. Department/Centre: (i) Architecture & Planning (Where Enrolled) (ii) Architecture & Planning (Where Working)
3. Category : FTRS (IARS/EFRS/ISERS) / PTRS (P-ISIRS/P-ISERS)
4. Title of Research (In English): A Quantitative Analysis of Wayfinding Behaviour in Indian Urban Fabrics through the Eyes of Users
5. Name of Supervisor(s): (i) Prof. Malwa Mukherjee
(ii) -
(iii) -
6. Date of Initial Registration: 5th Jan 2013 Date of Candidacy: 28th March 2016
7. Is the meeting held for Mid Term Review? ☒ YES / NO
- Period of Performance for Review: From 01 Jan 2023 to 14th July 2023
- Reason of Mid Term Review Progress presentation (on 18th April 2023)

[Attach detailed report]

8. Is it a Special Student Research Committee Meeting? YES / NO
- (A) Is there a change in topic? YES / NO
- Revised Topic if YES
(In English) /
- Justification: /
- (B) Is there a change of Supervisor(s)? YES / NO
- Addition of Supervisor(s) / Date of Retirement: /
- Deletion of Supervisor(s) /

*(Enclose Bio-data and consent of proposed supervisor and NOC from Organization in case of other than IITR)

Following information is required if proposed additional supervisor is from IITR

Name & Designation	Deptt./Center/ Organization	No. of Students Supervising Excluding this Student and Including candidate of other institution(s).						Signature of Supervisor
		Single			Jointly			
		With IITR Assistantship	Without IITR Assistantship	Other Institution(s)	With IITR Assistantship	Without IITR Assistantship	Other Institution(s)	

Enclose detailed justification in case of joint supervision or deletion of supervisor

- (C) Is there change of SRC member(s)? YES / NO
- New SRC Member(s) / (Chairperson/member) Department /
- Old SRC Member(s) / (Chairperson/member) Department /

AGENDA FOR THE 65TH MEETING OF IRC (ANNEXURE PT.65.2.2(B))

(D) Whether a case of probation due to course work requirement YES / NO

If YES, New Courses recommended: _____

(E) Whether a case of up-gradation from JRF to SRF YES / NO

Date of Assessment for up-gradation: _____

Recommendation for up-gradation: _____

Recommended/ Not Recommended

(in case of recommended) Effective date of SRF : _____

(in case of not-recommended) Date of Re-assessment for SRF: _____

(Note: Assessment for JRF to SRF up-gradation shall preferably be arranged within 04 weeks of the due date of conversion i.e. after 02 years period as JRF).

(F) (i) Semester Withdrawal on medical ground / Re-registration YES / NO

(ii) Temporary Withdrawal from Ph.D. programme (as per Rule R.8.3) YES / NO

Withdrawal period From: _____ To: _____

Reason: _____

(G) Whether a case for extension of time after 05/06 years: YES / NO

Full-Time Research Scholars: (i) Upto 5.5 years ☐ (ii) Upto 06 years ☐Part-Time Research Scholars: (i) Upto 6.5 years ☐ (ii) Upto 07 years ☒

Provide following details while making the above request:

Due date of submission _____ Previous extension, if any _____

Date of Proposed extension December 2023

Reason: _____

(H) Continuation of assistantship: (i) For 5th year ☐ (ii) Upto viva-voce examination ☐

(I) Any Other: _____

Member, SRC

Member, SRC

Supervisor-1

Supervisor-2

Supervisor-3

Chairperson, SRC

Chairperson, DRC/CRC

DATED: 14/7/23

HEAD OF THE DEPARTMENT/ CENTRE

FOR USE OF ACADEMIC AFFAIRS OFFICEThe recommendations of the Department/Centre are submitted for consideration / 8(G) asProposed for time extension upto 31/12/2023 ✓ IRC.

Dealing Asstt./Junior Supdt./Supdt.

AR (Evaluation)/ DR (Academics)

APPROVED/ NOT APPROVED

DEAN OF ACADEMIC AFFAIRS




जोधपुर संस्थान में शिक्षण के लिए जॉडपुर इंस्टीट्यूट ऑफ टेक्नोलॉजी (JIT)
जोधपुर, राजस्थान सरकार के तहत जोधपुर इंस्टीट्यूट ऑफ टेक्नोलॉजी (JIT)
जोधपुर, राजस्थान 342005 (सं. जॉडपुर, ऑफिशियल)
Tel: 01222-284181, 284182

सं. सं०से० (अ)/ 4512- /ई-4754

दिनांक: 30 दिसम्बर, 2019

अधिसूचना

अभिशासक परिषद ने संकल्प सं. बी०जी०/३७/२०१९ के द्वारा पारित किया है कि वास्तुकला एवं नियोजन विभाग में कार्यरत संकाय सदस्यों को पी०बी० ३, ए०जी०पी० रु० ८०००/- से पी०बी०-४, ए०जी०पी० रु० ९०००/- में उच्चीकरण उनके द्वारा पी०एच०डी० पूर्ण करने के उपरान्त ही देय होगा।


प्रशासक
कुलसचिव

प्रतिलिपि:

1. faculty@jitr.ac.in
2. Channel-i

No. ES(A)/ 4512- /E-4754

Dated: 30 Dec., 2019

NOTIFICATION

The Board of Governors vide resolution No.BG/37/2019 has approved that movement of faculty of the Department of Architecture & Planning in PB-3 with AGP Rs.8000 to PB-4 with AGP Rs.9000, be given after completion of Ph.D.


Registrar

Copy to:

1. faculty@jitr.ac.in
2. Channel-i

23

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
APPOINTMENT TO FACULTY POSITIONS
(ROLLING ADVERTISEMENT)

Advt. No. Estt.(A)/1064/A-86(Fac.Adv./2013) Dated: April 25, 2013

IIT Roorkee invites applications from Indian nationals (foreign nationals can be appointed on contract for five years) with outstanding track record for faculty positions at the levels of Assistant Professor and Assistant Professor (on contract). The Institute intends to fill up around 200 faculty positions. The reservation policy of the Ministry of Human Resource Development, Govt. regarding SC, ST, OBC & Persons with disabilities will be applicable.

Interested candidates may apply on the prescribed application form which may be downloaded from the website of the Institute. Online application submission system has been developed to help the candidates in filling the application form. However, application will be considered only after getting a signed hard copy of the form with relevant documents. Institute will not be responsible for the postal delays.

There is no last date for applications and completed applications are welcome throughout the year and may be sent to **Dean Faculty Affairs, IIT Roorkee, Roorkee-247 667 (Uttarakhand)**. However, only the applications received before notification of the date of interview for the concerned Department, on the Institute website, will be considered. List of shortlisted candidates and the date of interview will be notified on the website of the Institute www.iitr.ernet.in at least 20 days before the interview date. The applications received after the notification of date of interview for the concerned Department will be considered in the next selection process.

Pay structure:

- (i) **Assistant Professor:** Pay Band 3 (Rs. 15600-39100) and AGP-Rs. 8000/-. For direct recruits minimum pay in the PB-3 to be fixed at Rs. 30,000/-. On completion of 3 years service as Assistant Professor, the incumbent shall move to Pay Band-4 (Rs. 37400-67000) and AGP of Rs. 9000/-.
- (ii) **Assistant Professor (On Contract):** Pay Band-3 (Rs.15600-39100) and AGP Rs. 6000/-. (with seven non-compounded advance increments minimum starting pay of Rs. 20140). On completion of one year service, the incumbent shall move to AGP-of Rs. 7000/- and after three years to AGP of Rs. 8000/- with a minimum pay of Rs. 30000/-.

All other allowances are admissible as per Institute rules.

Qualifications & Experience:

- 1. **Assistant Professor:** Ph.D. with first class or equivalent at the preceding degree in the appropriate branch with a very good academic record throughout and a minimum of 3 years industrial/research/teaching experience excluding, however, the experience gained while pursuing Ph.D.

- 2. Assistant Professor (On Contract)** Ph.D. with first class or equivalent at the preceding degree in the appropriate branch with a very good academic record throughout.

Candidates not having the 3 years industrial/research/teaching experience will be put on tenure track for the regular post of Assistant Professor and will be placed in the regular scale of Assistant Professor without appearing again before the Selection Committee, on completion of 3 years experience requirement.

Note:

- (i) Incomplete applications in any respect will not be entertained by the Institute.
- (ii) Mere fulfilment of the above mentioned qualifications & experience does not entitle a candidate to be called for interview. Institute will further make the criteria on the recommendations of Departments to arrive at a reasonable number of candidates to be called for interview for each Department.
- (iii) The Institute reserves the right to consider and to fill or not to fill positions in any of the specialization(s)/Department(s)/Centre(s).
- (iv) The minimum requirement of qualifications and/or experience may be relaxed in respect of outstanding candidates.
- (v) Separate applications must be submitted if a candidate is applying in more than one Department.
- (vi) Those who have applied earlier for a faculty position will have to apply again on the prescribed application form if they wish to be considered against this advertisement.
- (vii) Basic Degree in Architecture is essential for all new faculty positions in the Deptt. of Arch. & Planning.
- (viii) In the case of faculty positions at entry level in the streams of Architecture & Planning, the requirement of Ph.D. degree has been waived off.
- (ix) Reservation policy will be applicable as per the MHRD (Govt. of India) norms/rules. For availing reservation, the category certificate will be required.
- (x) 3% of the vacancies are reserved for persons with disabilities as per GoI rules subject to producing the Disability Certificate in the prescribed format issued by the Competent Medical Board.
- (xi) The selected persons may be posted at any of the Campuses of the Indian Institute of Technology Roorkee as per the requirement of the Institute from time to time.
- (xii) No correspondence, whatsoever, will be entertained from the candidates regarding postal delays, conduct and result of interview and reasons for not being called for interview or selection.
- (xiii) The candidates called for interview will be paid 2nd Class AC train fare from the place of their residence in India to Roorkee and back by the shortest route.

(xiv) Preference will be given to candidates who have:

- Less than 35 years of age for the post of Assistant Professor.
- One of the Degrees from a premier Institute of India i.e. IITs, IISc, AIIMS, JNU, etc.
- Post Ph.D. Research experience of at least one year in an Organization of repute outside/inside India and/or independent research guidance/research project.
- Good Academic record from Bachelors degree onwards.

The following perks are given to the newly appointed faculty:

- Professional Development Allowance (PDA) of Rs. 3.0 Lacs in a three year block, for attending conferences in India as well as abroad, and for membership of professional bodies, etc.
- Faculty Initiation Grant (FIG) on submission of research proposal amounting up to Rs. 10.0 Lacs. In exceptional cases, the Director may approve the amount in excess of Rs. 10.0 Lacs.
- Transfer Travelling Allowance as well as joining time in accordance with the Government of India rules.
- Medical Facilities as per Medical Attendance and Treatment Rules of the Institute.
- Leave Travel Concession (LTC) as per the Government of India rules.
- Children Education Allowance as per the Government of India rules.
- Institute residence in the campus.

Historical Perspective:

IIT Roorkee has its roots in the Roorkee College, which was set up in 1847. It was renamed as the Thomason College of Civil Engineering in 1854. The College laid the foundation of modern engineering education and the use of Civil Engineering practices in the infrastructure development of the country. The irrigation infrastructure in the form of dams and canals, roads and highways, railway, bridges, etc. in the country, all have been the outcome of the engineering education imparted in this, the only engineering institution in the country, at that point of time.

It got elevated as the first technical University of the country in 1948 through the University of Roorkee Act, 1947 passed by the United Provinces Legislature. University of Roorkee also became the first institution in the country to offer postgraduate programs in engineering and technology in 1955. On September 21, 2001, the University was converted into an IIT by the Government of India through an Act of Parliament and recognized as an Institution of National importance.

Roorkee is the entry point of Uttarakhand state. It is on the way to Mussoorie and Haridwar from Delhi. IIT Roorkee has a beautiful green campus. Various sports facilities including Billiards, Swimming, Hockey, Football, and Yoga are

available in the Campus. The Institute provides 100% accommodation to faculty members. A good C.B.S.E. School is available in the Campus which provides admission to the children of newly joining faculty members throughout the year.

Item No. 98.5: To consider the report of the Committee constituted to review the Students' Feedback System.

As decided in the Deans' Committee meeting held on 22.05.2023, the following committee was constituted by the Chairman, Senate to review the Students' Feedback System on Jun 14, 2023:

- | | |
|--|--------------------------|
| 1. Prof. G.J. Chakrapani, Deptt. of ES | - Chairman |
| 2. Prof. Arup Das, Deptt. of ME | - Member |
| 3. Prof. C.N. Ramachandran, ADoAA (Curriculum) | - Member |
| 4. Prof. P. Sumathi, ADoFA | - Member |
| 5. General Secretary, Acd. Affairs (U.G) | - Member
(Ex-officio) |

The Draft Report of the Committee was circulated to all faculty members of the institute through e-mail on Aug. 07, 2023 and Sept. 15, 2023 to **provide their views/comments, if any**. The Committee submitted its Report to DoAA on August 21, 2023 (**Appendix-A**).

The IAPC, in its 133rd meeting held on 20.09.2023, considered the report of the Committee w.r.t. the terms of references. The IAPC recommended the following with the modified Students' Feedback Format (**Appendix-B**):

1. Students' Responses are to be obtained twice in a semester:
 - (a) Two weeks after Mid Term Examination (MTE)
 - (b) One week prior to End Term Examination (ETE)
2. Responses are to be obtained for all components such as Lecture, Tutorial, Practical, Industrial Training, Field Training / Study Tour.
3. Responses obtained after MTE not to be quantified. However, responses obtained for the Lecture component after ETE to be quantified for the required purposes.
4. Questionnaires for the Students' Feedback for all components are placed at **Appendix-B**. The same Questionnaires are to be used for offline/online programs.

5. Feedback shall not be made mandatory; however, students should be constantly galvanized on the significance of their feedback for improvements in their own learning system as well as towards growth of the institute. Class Representatives (CRs) to sensitise the importance among the fellow students.
6. Feedback week/duration to be mentioned in the Academic Calendar.
7. Feedback data of students who had a minimum of 75% attendance in class are to be utilized only for faculty teaching assessment and related aspects. The feedback data shall be assessed in three groups separately:
 - (a) Large Classes (more than 90 students)
 - (b) Medium Classes (30-90 students)
 - (c) Small classes (less than 30 students).
8. Feedback is to be obtained through online portal and mobile applications.
9. The feedback data obtained shall be analyzed statistically and report to be generated with charts and statistical inferences.
10. The report to be made accessible to the concerned faculty, Head of the concerned Department/Centre/School, Dean of Academic Affairs, Dean of Faculty Affairs and Director for any official purpose only.
11. No hard or soft report of the feedback to be published and displayed in public domain. It should be used judiciously in improvising the larger context of academic ecosystem.

The above is submitted for the consideration and approval of the Senate.

Committee Report on “Review of Students’ Feedback”

Submitted to

Dean, Academic Affairs, IIT Roorkee

21st August 2023

The Committee (IITR OM No. Acad/4391 dated 14th June 2023)

1. Prof. G. J. Chakrapani, ESD, Chairman
2. Prof. Arup Kumar Das- MIED, Member
3. Prof. C. N. Ramachandran, Chemistry Dept. and ADoAA Curriculum, Member
4. Prof. P. Sumathi, EED and ADoFA, Member
5. General Secretary, Academic Affairs (U.G.), Member (Ex-Officio)
 - Deputy Registrar (curriculum)- Special invitee

Terms of Reference:

1. To review the existing parameters of students’ feedback and redesign the form.
2. To review and formulate the mode of obtaining feedback.
3. To frame the frequency and timeline for collection of data.
4. To develop an integrated methodology for analysis and report generation.
5. To suggest the level of access to view the feedback, for example- the concerned faculty, Head of the Department, DoFA, DoAA and Director.
6. To suggest eligibility criteria for participation of students in providing feedback.
7. To suggest a mechanism for ensuring 100% feedback.
8. The committee to submit its report to DoAA latest by Aug. 31, 2023, for further consideration of the Director.

Preamble

For any good system, feedback on its functions, and timely course corrections are a must. In academic institutions world over, students' feedback on teaching-learning has been recognised as the primary criteria for self-assessment and bringing necessary improvisations. IIT Roorkee (henceforth referred as 'institute') introduced an online students' feedback system in 2013. The students' feedback on academics helps in assessment of academic strength and weakness of a course, selection of outstanding teacher awards, in faculty promotions and other related aspects. But, as the teaching methodology, resources and hands-on experience in learning have undertaken considerable changes, it is imperative to review the students' feedback system periodically and recommend accordingly. Many a times students associate their future career path based on the delight that a course instructor brings to the class-room with their wisdom, wit, erudition, expertise, scholarship and research intensive and innovative teaching methods etc. The students scale up what is taught in a class room to venture into a professional career in a particular field, to innovate and incubate ideas, or aim for further higher studies, and research. However, it has also been observed that there have been inadequacies in getting feedback from all students in a participatory manner and with sincerity, honesty and diligence.

EXISTING PARAMETERS OF FEEDBACK AND REVIEW:

The online feedback being sought at IITR at present are in the following order:

1. I liked the course? **(course component)**
2. The course is suitable for my program? **(course component)**
3. Adequate course material and references were provided/suggested by the teacher?
(faculty component)
4. I would take another course taken by the same teacher in the future? **(faculty component)**
5. The teacher answered the questions of students in the class clearly and concisely?
(faculty component)
6. The teacher covered all the topics given in the course structure? **(faculty component)**

7. The teacher explained the contents clearly? **(faculty component)**
8. Select up-to **3 tags** which best define this course: **(course component)**- intellectually provoking, old school, difficult to comprehend, intensive, latest materials
9. E-Teaching effectiveness of the faculty? **(faculty component- made redundant)**
10. Select up to **4 tags** that best define this teacher. **(faculty component)**- easy exams, group projects, lots of homework, skip classes? You won't pass, surprise quizzes, accessible outside class, tough exams, organized, well prepared, amazing lectures, good mentor, interactive classes
11. The percentage of scheduled classes taken by the teacher was in the following range **(faculty component)**- less than 80%, 80-90%, more than 90%
12. What are your suggestions to improve the course content? **(course component)**
13. How can the teacher improve the teaching methodology of his/her future classes? **(faculty component)**
14. What all teaching aspects of this teacher excite you? **(faculty component)**

The committee deliberated on several aspects, such as, teaching content, methodology and organisation of course, quality learning and proper knowledge dissemination, reaching out to students in coping with the class, care for physical and mental wellness, motivating students to academic inquisitiveness, engaging through question-answer sessions, tutorials, practical with hands-on experience, field and industry related visits, group discussions, assignments, team based learning, leadership building, accessibility and attention to individual needs of students, inspire and motivate students with excellent lectures, inclusiveness and conduct, sincerity to get the best out of students, creating interest among students to attend classes regularly, maintaining good classroom vibes, regularity of lectures and availability of study materials, easy and difficulty levels in questions in exams, to remove examination fears, proper and timely evaluation and display of marks in examinations, information on latest research and future scope, relevance, innovate and incubate ideas, best practices to be followed etc.

THE RECOMMENDATIONS AS PER THE TERMS OF REFERENCE ARE:

A. Parameters and redesign of feedback forms: The institute should devise a format in such a way that it's an interactive online session. On some parameters, the response shall be binary (**yes/no**), ticking one of **5 choices** provided already, and **subjective**. The feedback be obtained two times in a semester, once after the mid-term examination, where the faculty can make an assessment on individual student's perception on the course being taught and make relevant changes if required, and another before the end-semester examination. The feedback from students shall be obtained separately each, on Lecture (L), Tutorial (T), Practical (P), Industrial visits/training (In) and field studies/tours etc. (Fi).

(i) Format for the feedback after mid-term examination (no points to be assigned; feedback to be obtained only for L, T and P; feedback to be shared with the concerned): The feedback form shall be an online interactive session(s), where each question shall be displayed after the previous one has been responded. In welcome to the feedback dashboard, the following shall be displayed clearly.

- *Your feedback shall be treated as very confidential and your identity shall NOT be revealed.*
- *Your honest feedback shall improve the learning system of your own and others and help your institute for any course corrections.*

The course wise questions and probable answers to be chosen in drop-down list shall be as follows:

1. Hope you are doing good and enjoying the new semester? Yes/No
2. Are the classes held regularly by the faculty? Yes/No
3. Are you attending classes regularly? Yes/No
If answer is 'No', what is/are the reason(s)? (Provide space to type)
4. Did the faculty explain objective, organization and the evaluation method? Yes/No
5. How was your performance in mid-term examination? Good/Satisfactory/Bad
6. Was the examination evaluation/results given in time? Yes/No
7. Do you understand and comprehend the subject being taught well? Yes/Mostly/No

8. Do you participate in interaction in class and approach the teacher for any difficulty? Yes/No
9. Is the pace of teaching good? Yes/No
10. Do you get adequate teaching materials online and/or in library? Yes/No

The following encouraging message shall be given at the end of the feedback:

Thank you for your time. We value your feedback. Best wishes.

(Points 5 and 6 can be dropped if feedback is being taken for a subject having no MTE component)

- (ii) Format for the feedback before end-term examination (Only for Lectures (L)); [Yes/No and subjective answers are not to be awarded any point; for others, points to be awarded are: Poor-1; Average/sometimes-2; Good-3; Very good-4; Excellent/Highly accessible-5]**

The feedback form shall be an online interactive session(s), where each question shall be displayed after the previous one has been responded. In welcome to the feedback dashboard, the following shall be displayed clearly.

- *Your feedback shall be treated as very confidential and your identity shall NOT be revealed.*
- *Your honest feedback shall improve the learning system of your own and others and help your institute for any course corrections.*

1. The level of the course was: Poor/Average/Good/Very good/Excellent. **(course assessment)**
2. The suitability of the course as per my program of study was: Poor/Average/Good/Very good/Excellent. **(course assessment)**
3. The syllabus of the course as per its present objective is: Poor/Average/Good/Very good/Excellent. **(course assessment)**
4. The relevance of the course as compared to present time is: Poor/Average/Good/Very good/Excellent. **(course assessment)**
5. The learning outcome(s) for you from this course was: Poor/Average/Good/Very good/Excellent. **(course assessment)**

6. Are the suggested study materials available in the library (books/e-books/journals)?
Yes/No **(course assessment)**
7. Did the course make you interested to study further advance level? Yes/No **(course assessment)**
8. Is the course suitable to be taught in this semester? Yes/No **(course assessment)**
9. Which part of the course interested you the most? (provide space to type) **(course assessment)**
10. Your suggestion for improvement in the course content: (provide space to type)
(course assessment)
11. Your overall assessment on the course: (provide space to type) **(course assessment)**
12. The regularity of classes taken by the faculty was: Poor/Average/Good/Very good/Excellent. **(teaching assessment)**
13. The preparedness of the faculty for the class was: Poor/Average/Good/Very good/Excellent. **(teaching assessment)**
14. Interaction and engagement by faculty in class was: Poor/Average/Good/Very good/Excellent. **(teaching assessment)**
15. Command and clarity of the faculty in teaching the subject was:
Poor/Average/Good/Very good/Excellent. **(teaching assessment)**
16. Accessibility of the faculty beyond class room for your academic needs (in office/emails/social media) was: Poor/Sometimes/Good/Very good/Highly accessible. **(teaching assessment)**
17. Your assessment on “the classes were engrossing, and the faculty was very encouraging to students to ask questions” is: Poor/Average/Good/Very good/Excellent. **(teaching assessment)**
18. Your assessment on “questions in examinations were thought provoking and a good combination of easy and difficulty levels” is: Poor/Average/Good/Very good/Excellent. **(teaching assessment)**
19. Your assessment on “display of good and clear slides and/or writing on board, and easy to understand explanations” is: Poor/Average/Good/Very good/Excellent. **(teaching assessment)**
20. Your assessment of the faculty on “inclusiveness and attitude” is:
Poor/Average/Good/Very good/Excellent. **(teaching assessment)**

21. Your overall perception on teaching abilities of the faculty in this course is:

Poor/Average/Good/Very good/Excellent. **(teaching assessment)**

22. Your special comments on any attributes about the faculty: **(teaching assessment)**

(Provide space for the comments)

Following encouraging message shall be displayed at the end of the feedback:

Thank you for your time. We value your feedback. Best wishes.

(iii) For faculty engaged in Tutorial (T) (feedback to be obtained only once before the end-term examinations; Points 1-8 shall be used for awarding points: Poor-1; Average-2; Good-3; Very good-4; Excellent-5)

1. The regularity of tutorial classes by the faculty was: Poor/Average/Good/Very good/Excellent. **(teaching assessment)**

2. The preparedness of the faculty in terms of facilitation of questions for tutorials and discussion was: Poor/Average/Good/Very good/Excellent. **(teaching assessment)**

3. The interaction and involvement by faculty in tutorials was:
Poor/Average/Good/Very good/Excellent. **(teaching assessment)**

4. The command and clarity of the faculty in tutorial problem solution(s) was:
Poor/Average/Good/Very good/Excellent. **(teaching assessment)**

5. Your assessment on regularity in tutorial file/assignment evaluation was:
Poor/Average/Good/Very Good/Excellent. **(teaching assessment)**

6. Your overall perception on the abilities of the faculty in the tutorial class is:
Poor/Average/Good/Very good/Excellent. **(teaching assessment)**

7. Your assessment on “tutorial classes which enhanced your ability to solve numerical/problems” was: Poor/Average/Good/Very good/Excellent. **(course assessment)**

8. Your assessment on “the relevance of the tutorial classes which connected and enhanced theoretical knowledge” was: Poor/Average/Good/Very good/Excellent. **(course assessment)**

Following encouraging message shall be displayed at the end of the feedback:

Thank you for your time. We value your feedback. Best wishes.

(iv) For faculty engaged in Practical (P) (feedback to be obtained only once before the end-term examinations; Points 1-8 shall be used for awarding points: Poor-1; Average-2; Good-3; Very good-4; Excellent-5)

1. The regularity of practical classes by the faculty was: Poor/Average/Good/Very good/Excellent. **(teaching assessment)**
2. The preparedness of the faculty in terms of laboratory methodology and to handle instruments/equipment was: Poor/Average/Good/Very good/Excellent. **(teaching assessment)**
3. The interaction and involvement by faculty in practical was:
Poor/Average/Good/Very good/Excellent. **(teaching assessment)**
4. The command and clarity of the faculty in laboratory demonstration was:
Poor/Average/Good/Very good/Excellent. **(teaching assessment)**
5. Your assessment on regularity of faculty in practical file/assignment evaluation was: Poor/Average/Good/Very Good/Excellent **(teaching assessment)**
6. Your overall perception on the abilities of the faculty in the practical class is:
Poor/Average/Good/Very good/Excellent. **(teaching assessment)**
7. Your assessment on “practical classes which enhanced your ability to independently handle instrument/equipment” was: Poor/Average/Good/Very good/Excellent **(course assessment)**
8. Your assessment on “the relevance of practical classes which connected and enhanced theoretical knowledge” was: Poor/Average/Good/Very good/Excellent **(course assessment)**

Following encouraging message shall be displayed at the end of the feedback:

Thank you for your time. We value your feedback. Best wishes.

- (v) **For faculty engaged in Industrial Training (In) (feedback to be obtained only once after the training is completed; Points 1-6 shall be used for awarding points: Poor-1; Average-2; Good-3; Very good-4; Excellent-5)**

1. Planning and execution of industrial training was: Poor/Average/Good/Very good/Excellent. **(faculty assessment)**
2. The interest shown by the faculty and industry towards training was: Poor/Average/Good/Very good/Excellent. **(faculty assessment)**
3. Learning outcome from the training was: Poor/Average/Good/Very good/Excellent. **(faculty assessment)**
4. Team work during the training was: Poor/Average/Good/Very good/Excellent. **(faculty assessment)**
5. Industrial training report preparation and evaluation was: Poor/Average/Good/Very good/Excellent **(faculty assessment)**
6. Do you think industrial training is relevant to your program? Yes /No **(course assessment)**

Following encouraging message shall be displayed at the end of the feedback:

Thank you for your time. We value your feedback. Best wishes.

- (vi) **For faculty engaged in Field Training/Study Tours (Fi) (feedback to be obtained once only after the training/tour; Points 1-6 shall be used for awarding points: Poor-1; Average-2; Good-3; Very good-4; Excellent-5)**

1. Planning and execution of the field training/study tour was: Poor/Average/Good/Very good/Excellent. **(faculty assessment)**
2. The interest shown by the faculty in imparting field training/study tour was: Poor/Average/Good/Very good/Excellent. **(faculty assessment)**
3. Learning outcome from the training/tour was: Poor/Average/Good/Very good/Excellent. **(faculty assessment)**
4. Team work during the training/tour was: Poor/Average/Good/Very good/Excellent. **(faculty assessment)**

5. Field tour/study report preparation and evaluation was: Poor/Average/Good/Very good/Excellent (**faculty assessment**)
6. Do you think field training/study tour is relevant to your program? Yes /No (**course assessment**)

Following encouraging message shall be displayed at the end of the feedback:

Thank you for your time. We value your feedback. Best wishes.

- B. Students' involvement, time and duration:** To make the feedback more effective, students shall be asked to fill online feedback forms two times, i.e.,
- (i) two weeks after mid-term examination and,
 - (ii) one week before end-term examination.

The dashboard should be made available for one week during each time, and be included as an event in academic calendar with specific dates assigned. The feedback portal should be made inaccessible and no student shall be allowed to provide feedback after end-term examinations under any circumstances. Feedback shall not be made mandatory; however, students should be constantly galvanised on the significance of their feedback for improvements in their own learning system as well as towards growth of the institute. There should be a coordinator or a marshal from each class on Feedback Events (to be created), who shall emphasize all students to participate in feedback process in time and with honesty and diligently. Student Activity Team shall publicise feedback week by announcements in cultural fests, bill boards, LED screens in campus and through email circulation. During orientation program, students' feedback shall be mentioned as an important agenda. In addition to the dash board, Apps and QR Codes be developed for easy access to all students. All students irrespective of grade points and attendance requirement, must be allowed to participate in feedback process. In new semester online registration, students be asked to tick (yes/no), if they had participated in feedback process in the previous semester.

- C. Feedback data in faculty assessment:** Although all students who attended a specific course are required to give their feedback, the institute shall use feedback data of students, who had a minimum of 75% attendance in class for faculty teaching assessment and related aspects. The feedback data shall be assessed in

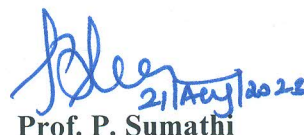
three groups separately, (i) **large classes** (more than 100 students), (ii) **medium classes** (more than 50 students) and, (iii) **small classes** (less than 50 students).

D. Feedback data accessibility: The feedback data of (i) all students, and (ii) with minimum 75% attendance be collated and prepared with numerous charts/diagrams and statistical inferences. The same shall be made accessible to concerned faculty, who shall make necessary course corrections wherever they agree. However, the institute central administration shall have access to the data for any systemic analysis and other related aspects. Similarly, upon request by the Head of the concerned Department, Dean (Academic Affairs) shall provide the data of all faculty members of the department for any official purpose only.

E. Feedback data analysis and report: The feedback data obtained shall be analyzed statistically. However, since all faculty members may not agree with the students' feedback, hence, no hard or soft report be published and displayed in public domain. The students' feedback on academics and teaching or a course with a certain syllabus imparts valuable information, and hence, it should be used judiciously in improvising the larger context of academic ecosystem. Any trend observed over a time period should be discussed in terms of strength, weakness and scope.



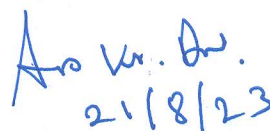
General Secretary,
Academic Affairs (U.G.)


21/8/23

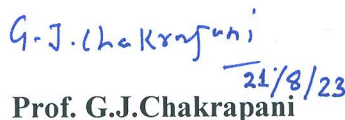
Prof. P. Sumathi



Prof. C.N. Ramachandran


21/8/23

Prof. Arup Kumar Das


21/8/23

Prof. G.J. Chakrapani

21st August 2023

QUESTIONNAIRE FOR FEEDBACK AFTER MTE

LECTURE COMPONENT

**Welcome to the IIT Roorkee Feedback System!
You are about to start an important activity!!**

- Your identity shall NOT be revealed.
- Your feedback shall be shared with the Course Teacher.
- Your honest feedback shall improve the learning system of your own and others and help your institute for any course corrections.

Questions

1. Are the classes being held regularly? Yes/No
2. Are you attending the classes regularly? Yes/No
If answer is 'No', what is/are the reason(s) ? (max. 50 words)
3. Were the objective, organization and the evaluation method explained clearly ? Yes/No
4. Were you satisfied with your performance in mid-term examination?
Yes/No
5. *Was the examination evaluation/results completed and shared with you by the time of feedback? Yes/No
6. *Do you understand and comprehend the subject being taught well?
Yes/Mostly/No
7. Do you participate in class interaction and approach the teacher for any difficulty? Yes/No
8. Is the pace of teaching good? Yes/No
9. Do you get adequate teaching materials online and/or in library? Yes/No.

***Thank you for your time.
We value your feedback.
Best wishes!***

(*Points 5 and 6 can be dropped if feedback is being taken for a subject having no MTE component)

QUESTIONNAIRE FOR FEEDBACK BEFORE ETE

LECTURE COMPONENT

Welcome to the IIT Roorkee Feedback System !

You are about to start an important activity !!

- Your identity shall NOT be revealed.
- Your feedback shall be shared with the Course Teacher.
- Your honest feedback shall improve the learning system of your own and others and help your institute for any course corrections.

A: Course Assessment

NOTE:

- A. Questions shall be displayed after the current one is responded.
- B. Yes/No and subjective answers will not to be awarded any numerical point.
- C. For other questions, please indicate feedback in the numerical scale: 1–5, where, 1 – Minimum and 5 – Maximum.

1. The difficulty level of the course (1/2/3/4/5):
2. The suitability of the course as per the program of study (1/2/3/4/5):
3. The content of the course as per its objective (1/2/3/4/5):
4. The relevance of the course (1/2/3/4/5):
5. The learning outcome(s) for you from this course (1/2/3/4/5):
6. Are the suggested study materials available? Yes/No
7. Did the course make you interested to study further? Yes/No.
If the answer is 'No', what is/are the reason(s)? (max. 50 words).
8. Is the course suitable to be taught in this semester? Yes/No.
If the answer is 'No', what is/are the reason(s)? (max. 20 words).
9. Your suggestion for improvement in the course content: (max. 50 words).

B: Teaching Assessment

NOTE:

- A. Questions shall be displayed after the current one is responded.
- B. Yes/No and subjective answers will not to be awarded any numerical point.
- C. For other questions, please indicate feedback in the numerical scale: 1–5, where, 1 – Minimum and 5 – Maximum.

1. The regularity of classes taken by the faculty member (1/2/3/4/5):
2. The preparedness of the faculty member for the class (1/2/3/4/5):
3. Interaction and engagement by faculty member in the class (1/2/3/4/5):
.....
4. Command and clarity of the faculty member in teaching the course (1/2/3/4/5):
5. Accessibility of the faculty member beyond class room (1/2/3/4/5):
6. Your assessment on the approach of faculty member towards "inclusiveness" (1/2/3/4/5):
7. Your overall perception on teaching abilities of the faculty member in this course (1/2/3/4/5):
8. Your special comments on any attributes about the faculty member, if any:
..... (max. 50 words).
9. Your suggestion for improving the teaching methodology of the faculty member, if any: (max. 50 words).

***Thank you for your time.
We value your feedback.
Best wishes!***

QUESTIONNAIRE FOR FEEDBACK BEFORE ETE

TUTORAL COMPONENT

NOTE:

- A. Questions shall be displayed after the current one is responded.
- B. Yes/No and subjective answers will not to be awarded any numerical point.
- C. For other questions, please indicate feedback in the numerical scale: 1–5, where, 1 – Minimum and 5 – Maximum.

1. The regularity of tutorial classes (teaching assessment) (1/2/3/4/5):
2. The preparedness in terms of facilitation of questions for tutorials and discussion (teaching assessment) (1/2/3/4/5):
3. The interaction and involvement in tutorials (teaching assessment) (1/2/3/4/5):
4. The command and clarity in handling the tutorial problems and solution(s) (teaching assessment) (1/2/3/4/5):
5. Your assessment on regularity in tutorial evaluation (teaching assessment) (1/2/3/4/5):

6. Your assessment on the relevance of the tutorial classes (Course assessment) (1/2/3/4/5):
7. Your suggestions for improving tutorial classes, if any: (max. 50 words).

***Thank you for your time.
We value your feedback.
Best wishes!***

QUESTIONNAIRE FOR FEEDBACK BEFORE ETE

PRACTICAL COMPONENT

NOTE:

- A. Questions shall be displayed after the current one is responded.
- B. Yes/No and subjective answers will not to be awarded any numerical point.
- C. For other questions, please indicate feedback in the numerical scale: 1–5, where, 1 – Minimum and 5 – Maximum.

1. The regularity of practical classes conducted (teaching assessment) (1/2/3/4/5):
2. The preparedness of the faculty member in terms of laboratory methodology and in handling instrument/equipment (teaching assessment) (1/2/3/4/5):
3. The interaction and involvement by faculty member in practical (teaching assessment) (1/2/3/4/5):
4. Your assessment on regularity of the faculty member in evaluation of practical work (teaching assessment) (1/2/3/4/5):
5. Your assessment on the relevance of the practical classes (course assessment) (1/2/3/4/5):
6. Your suggestions for improving the practical sessions: (max. 50 words).

***Thank you for your time.
We value your feedback.
Best wishes!***

QUESTIONNAIRE FOR FEEDBACK BEFORE ETE

AFTER INDUSTRIAL TRAINING

NOTE:

- A. Questions shall be displayed after the current one is responded.
- B. Yes/No and subjective answers will not to be awarded any numerical point.
- C. For other questions, please indicate feedback in the numerical scale: 1–5, where, 1 – Minimum and 5 – Maximum.

Questions (Course Assessment)

1. Learning outcome from the training (1/2/3/4/5):
2. Do you think industrial training is relevant to your program? Yes /No

***Thank you for your time.
We value your feedback.
Best wishes!***

QUESTIONNAIRE FOR FEEDBACK BEFORE ETE

AFTER FIELD TRAINING/ STUDY TOURS

NOTE:

- A. Questions shall be displayed after the current one is responded.
- B. Yes/No and subjective answers will not to be awarded any numerical point.
- C. For other questions, please indicate feedback in the numerical scale: 1–5, where, 1 – Minimum and 5 – Maximum.

Questions (Course Assessment)

1. Learning outcome from the training/tour (1/2/3/4/5):
2. Is the field training/study tour relevant to your program? Yes /No

***Thank you for your time.
We value your feedback.
Best wishes!***

Item No. 98.6: To consider the seat matrix for admission into the Ph.D. programmes (Spring Semester) 2023.

The IRC, in its 64th meeting held on 25.08.2023, considered and recommended the following seat matrix **(Appendix-A)** for admission into the Ph.D. Programmes (Spring Semester) 2023.

The above is submitted for the consideration and approval of the Senate.

Appendix-1

Category wise vacancy for admission to Ph.D program for Spring Semester of the session 2023-24 under Institute Assistantship

Deptt/ centre	Faculty position as on 21.08.2023	Total Seats = 5 x core faculty & 2 x Joint faculty	Total Intake						Seats Filled						Vacancy					
			Unreserved	Gen-EWS	OBC	SC	ST	Total Intake	Unreserved	Gen-EWS	OBC	SC	ST	Total filled	Unreserved	GEN-EWS	OBC	SC	ST	Total Vacancy
(Roorkee Campus)																				
Architecture & Planning	15	75	30	8	20	11	6	75	13	1	10	7	1	32	17	7	10	4	5	43
Biosciences & Bioengineering	29+2*	149	61	15	40	22	11	149	24	6	14	2	0	46	37	9	26	20	11	103
Chemical Engineering	23	115	46	12	31	17	9	115	22	6	12	11	2	53	24	6	19	6	7	62
Chemistry	26	130	53	13	35	19	10	130	24	4	13	4	2	47	29	9	22	15	8	83
Civil Engineering	57	285	115	29	77	43	21	285	56	12	34	20	8	130	59	17	43	23	13	155
Computer Science & Engg.	16+1*	82	33	8	22	13	6	82	22	0	7	2	0	31	11	8	15	11	6	51
Design	2+14*	38	15	4	10	6	3	38	10	1	3	3	0	17	5	3	7	3	3	21
Earth Sciences	27	135	55	14	36	20	10	135	16	5	6	0	0	27	39	9	30	20	10	108
Earthquake Engineering	16	80	32	8	22	12	6	80	15	5	11	3	3	37	17	3	11	9	3	43
Electrical Engineering	36	180	73	18	49	27	13	180	33	14	23	13	4	87	40	4	26	14	9	93
Electronics & Communication Engg.	38	190	77	19	51	29	14	190	41	5	30	12	0	88	36	14	21	17	14	102
Humanities & Social Sciences	27	135	55	14	36	20	10	135	28	11	21	11	8	79	27	3	15	9	2	56
Hydro & Renewable Energy	10	50	20	5	14	7	4	50	7	0	6	3	0	16	13	5	8	4	4	34
Hydrology	9	45	18	5	12	7	3	45	12	0	8	4	0	24	6	5	4	3	3	21
Management Studies	20	100	41	10	27	15	7	100	17	5	8	4	0	34	24	5	19	11	7	66
Mathematics	27	135	55	14	36	20	10	135	12	6	4	6	0	28	43	8	32	14	10	107
Mechanical & Industrial Engg.	44	220	89	22	59	33	17	220	56	13	25	8	4	106	33	9	34	25	13	114
Metallurgical & Materials Engg.	27	135	55	14	36	20	10	135	20	0	16	8	0	44	35	14	20	12	10	91
Physics	38+1*	192	78	19	52	29	14	192	46	13	17	5	2	83	32	6	35	24	12	109
Water Resouces Development & Management	10+1*	52	21	5	14	8	4	52	13	4	11	4	1	33	8	1	3	4	3	19
Total	2523		1022	256	679	378	188	2523	487	111	279	130	35	1042	535	145	400	248	153	1481
Centres																				
C-Trans	1+10*	25	10	2	7	4	2	25	2	2	3	1	0	8	8	0	4	3	2	17
Disaster Mitigation & Management	3+20*	55	22	6	15	8	4	55	10	0	2	2	1	15	12	6	13	6	3	40
Nanotechnology	1+20*	45	18	5	12	7	3	45	5	3	3	1	0	12	13	2	9	6	3	33
MFSAIDS	22*	44	18	4	12	7	3	44	9	1	3	0	0	13	9	3	9	7	3	31
Institute Instrumentation Centre	1	5	2	1	1	1	0	5	2	0	1	0	0	3	0	1	0	1	0	2
Centre for Photonics & Quantum Communication Technology (CPQCT)	11*	22	9	2	6	3	2	22	3	1	1	1	0	6	6	1	5	2	2	16
Centre for Space Science and Technology	14*	28	11	3	8	4	2	28	0	0	0	0	0	0	11	3	8	4	2	28
Centre for Sustainable Energy	10*	20	8	2	5	3	2	20	0	0	0	0	0	0	8	2	5	3	2	20
International Centre of Excellence for Dams	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	244		98	25	66	37	18	244	31	7	13	5	1	57	67	18	53	32	17	187
(Saharanpur Campus)																				
Total Seat @ 8 x no. of faculty																				
Applied Mathematics & Scientific Computing	4	32	13	3	9	5	2	32	4	1	1	0	0	6	9	2	8	5	2	26
Paper Technology	5	40	16	4	11	6	3	40	6	0	3	2	0	11	10	4	8	4	3	29
Polymer & Process Engg.	12	96	39	10	26	14	7	96	20	0	7	4	0	31	19	10	19	10	7	65
Total	168		68	17	46	25	12	168	30	1	11	6	0	48	38	16	35	19	12	120
Grand total	2935		1188	298	791	440	218	2935	548	119	303	141	36	1147	640	179	488	299	182	1788
* Joint Faculty																				

* Joint Faculty

Note: PwD seats are 5% horizontal

Item No. 98.7: To consider the revision in Minimum Educational Qualification (MEQ) for admission to Ph.D. Programmes.

There is a set of common MEQ for admission into the Ph.D. programmes. Often, the AAO admission office receives queries on clarifications/interpretations w.r.t. its clauses. The IRC, in its 64th meeting held on 25.08.2023, considered and recommended the modified criteria as follows:

Common Minimum Eligibility Criteria (Existing)	Common Minimum Eligibility Criteria (Proposed)
<p>An applicant belonging to the different admission categories should possess the following minimum qualifications in appropriate areas to be eligible to apply for admission for the Ph.D. programme of the Institute.</p> <p>1. Master's degree with minimum Cumulative Grade Point Average (CGPA) of 6.0 on a 10-point scale, or 60% marks for the General, GEN-EWS and OBC category.</p> <p>For SC / ST or PWD candidates, the minimum CGPA requirements may be relaxed to 5.50 on a 10-point scale or to 55% marks.</p> <p>Post Graduate Degree in Basic Science Or Graduate/Post Graduate Degree in Professional Course selected through a process described through any one of the following:</p> <p>a. Scholars who are selected through National Eligibility Tests-UGC NET including lectureship (Assistant Professorship) and GATE.</p> <p>b. The selection process through National Level Examinations conducted by MHRD and its Agencies and Institutes such as UGC/IIT/IISc/IISER etc.</p> <p>2. For candidates other than Centrally Funded Technical Institutes (CFTIs), B. Tech / B. Arch / B. Pharm degree or equivalent with a GATE / GPAT/NET score (marks) and a</p>	<p>An applicant should possess one of the following minimum qualifications in appropriate area(s) and she/he is required to fulfil the Department/ Centre/ School wise minimum educational qualification to be eligible to apply for admission for the Ph.D. programmes of the Institute.</p> <p>1. Applicants with master's degree should satisfy the following:</p> <p>(i) General, GEN-EWS and OBC category: Minimum Cumulative Grade Point Average (CGPA) of 6.0 on a 10-point scale, or 60% marks. SC / ST / PWD category: Minimum Cumulative Grade Point Average (CGPA) of 5.50 on a 10-point scale or 55% marks.</p> <p>(ii) Qualified in a national level test, such as- GATE / CEED / JEST / UGC-NET / CSIR-NET including lectureship (Assistant Professorship) or equivalent or holding a national level fellowship.</p> <p>2. Applicants of all categories (GEN/GEN-EWs/OBC/SC/ST/PWD) with 4-Year bachelor's degree should satisfy the following:</p> <p>(i) Qualified in a national level test, such as- GATE / CEED / JEST / UGC-NET / CSIR-NET including lectureship (Assistant Professorship) or equivalent or holding a national level fellowship.</p> <p>(ii) Candidates from Centrally Funded Technical Institutes (CFTIs): a minimum CGPA of 7.0 on a 10-point scale or 70% marks.</p>

<p>minimum CGPA of 7.50 on a 10-point scale or 75% marks, irrespective of the category.</p> <p>For graduates from CFTIs, the minimum CGPA requirement is relaxed to 7.0 on a 10-point scale or 70% marks.</p> <p>3. CGPA or percentage of marks in aggregate, in case marks are awarded, of all years / semesters will be considered. If the CGPA is awarded on a scale other than a 10-point scale, proportionate concession to a 10-point scale will be considered.</p> <p>4. The requirement of GATE / GPAT / JRF / NET score (marks) is not applicable to candidates in ISERS or P-ISIRS or P-ISERS category.</p> <p>5. Bachelors or Masters from IITs with a CGPA 8.0 and above on 10 scale point scale are exempted from the requirement of GATE / GPAT / JRF / NET.</p> <p>6. Candidates pursuing Master's programs in Engineering or Architecture / Planning in IIT Roorkee with CGPA 8.50 or above, shall have a choice of lateral entry to the Ph.D. program after completing first two semesters of the Master's program.</p> <p>7. Candidates with MBBS / BDS degree from an Indian Universities / Institution shall have minimum CGPA of 6.0 on a 10-point scale, or 60% in the qualifying degree, irrespective of the category. They are exempt from the GATE / GPAT / JRF / NET requirement.</p> <p>8. Candidates with Master of Surgery (MS)/ Doctor of Medicine (MD) degree from an Indian University / Institute are exempt from the minimum CGPA as well as the GATE / GPAT / JRF / NET requirement.</p> <p>9. Candidates with a medicine degree from an overseas university / institute should have qualified the</p>	<p>Candidates from institutions other than CFTIs: a minimum CGPA of 7.50 on a 10-point scale or 75% marks</p> <p>3. Applicants of all categories (GEN/GEN-EWs/OBC/SC/ST/PWD) with bachelor's or master's degree from IITs with a CGPA of 8.0 and above on a 10-point scale. Such candidates are exempted from the requirement of qualifying in a national level test, such as- GATE / CEED / JEST / UGC-NET / CSIR-NET including lectureship (Assistant Professorship) or equivalent or holding a national level fellowship.</p> <p>4. Applicants of all categories (GEN/GEN-EWs/OBC/SC/ST/PWD) with MBBS / BAMS / BHMS / BDS degree from Indian Universities / Institution shall have minimum CGPA of 6.0 on a 10-point scale, or 60% in the qualifying degree. Such candidates are exempted from the requirement of qualifying in a national level test, such as- GATE / CEED / JEST / UGC-NET / CSIR-NET including lectureship (Assistant Professorship) or equivalent or holding a national level fellowship.</p> <p>5. Applicants with Master of Surgery (MS) / Doctor of Medicine (MD) degree from Indian Universities / Institutions are exempted from the minimum CGPA as well as the requirement of qualifying in a national level test, such as- GATE / CEED / JEST / UGC-NET / CSIR-NET including lectureship (Assistant Professorship) or equivalent or holding a national level fellowship.</p> <p>6. Candidates pursuing master's programs in Engineering / Architecture / Planning / M.Sc. / M. Des. in IIT Roorkee shall have a choice of lateral entry / switch-over to the Ph.D. program after completing the following:</p> <ol style="list-style-type: none"> first three semesters of the Master's program with CGPA 8.50 or above for the candidates of M.Sc. program. first two semesters of the master's program with CGPA 8.50 or above for candidates of other master programs.
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Foreign Medical Graduate Examination conducted by the National Board of Examination.	Note:
10. Candidates with Overseas Citizen of India (OCI) / Person of Indian Origin (PIO) status will be treated at par with Indian Nationals in the General Category.	(A) CGPA or percentage of marks in aggregate (in case marks are awarded) of all years / semesters will be considered. If the CGPA is awarded on a scale other than a 10-point scale, proportionate conversion to a 10-point scale will be considered.
11. Candidates who fulfil the minimum eligibility criteria on the date of submission of the application should only apply.	(B) The requirement of qualifying in a national level test, such as- GATE / CEED / JEST / UGC-NET / CSIR-NET including lectureship (Assistant Professorship) or equivalent or holding a national level fellowship is not applicable to candidates in ISERS or P-ISIRS or P-ISERS category.
	(C) Candidates with a medicine degree from an overseas university / institute should have qualified the Foreign Medical Graduate Examination, or equivalent conducted by the National Board of Examination.
	(D) Candidates with Overseas Citizen of India (OCI) / Person of Indian Origin (PIO) status will be treated at par with Indian Nationals in the General Category.
	(E) Candidates selected under DST-INSPIRE scheme may be considered for provisional admission through departmental/centre /school Ph.D. selection procedure. Such candidates shall be required to submit their INSPIRE Fellowship "Final Offer" from the funding agency to the Institute within 18 months from the date of initial joining, failing which their provisional admission shall stand cancelled automatically, without any further consideration.

Further, the IRC constituted the following committee to recommend the guidelines for admission of Indian Nationals who obtain bachelor's/master's qualifications from outside the country into the Ph.D. programmes:

1. Prof. R. Balasubramanian, Department of CS & E, (Chairman).
2. Prof. Brajesh Kaushik, Department of E & CE (Member).
3. Prof. A. Swaminathan, Assoc. DoAA (ITSA) (Member).

The above is submitted for the consideration and approval of the Senate.

Item No. 98.8: To consider the MEQs for the admission into the Ph.D. programme in the following newly established centres:

- 1. Centre for Sustainable Energy.**
- 2. International Centre of Excellence for DAMS.**
- 3. Centre for Space Science and Technology.**

1. Centre for Sustainable Energy.

The IRC in its 63rd meeting held on 28.06.2023 considered and recommended the proposed admission criteria for admission to Ph.D. programme in Centre for Sustainable Energy as under:

“B.Arch. / M.Arch. / B.Plan. / M.Plan. / MURP / B.E. / B.Tech. / M.E. / M.Tech./M.Sc. in any branch of engineering & science.

The IRC in its 64th meeting held on 25.08.2023 considered and recommended the following:

2. International Centre of Excellence for DAMS.

- (i) Master’s degree in Dam Safety and Rehabilitation/ Hydrology/ Water Resources Engineering/ Hydraulics/ Geotechnical Engineering/ Earthquake Engineering/ Geomatics Engineering/ Geology/ Geophysics or Equivalent.
- (ii) B. Tech. / M. Tech. in Civil / Mechanical/ Industrial / Production Engineering or equivalent.

3. Centre for Space Science and Technology.

- (i) Bachelor’s degree (4-Year) /Master’s degree in Engg.
- (ii) Master’s degree in Physics / Mathematics / Atmospheric Science /Space Science/ Economics / Geology / Applied Geology (or equivalent in Earth Sciences) / Chemistry or Equivalent.

The above are submitted for the consideration and approval of the Senate.

Item No. 98.9: To consider the revision in Minimum Education Qualification for admission to Ph.D. programme in the Electronics & Communication Engineering Department.

The IRC, in its 65th meeting held on 27.09.2023, considered and recommended the MEQ with minor suggestions as follows:

Existing MEQ	Proposed MEQ
(i) M.E./M.Tech. in Microelectronics/ VLSI / Microwaves / Communication Systems / Control Systems/ Instrumentation / Circuits & Systems or equivalent.	(i) M.E. / M.Tech. in Microelectronics/VLSI / Microwaves/ Communication Systems /Control Systems/ Instrumentation/ Circuits & Systems / Computer Science or equivalent.
(ii) B.E. / B.Tech. in Electronics & Communication / Electrical Engg./ Computer Science &Engg. or equivalent.	(ii) B.E. / B.Tech. in Electronics & Communication / Electrical Engg./ Computer Science &Engg. or equivalent.
(iii) M.Sc. in Physics / Instrumentation / Electronics.	(iii) M.Sc. in Physics/ Instrumentation / Electronics / Computer Science & Engg. or Equivalent.
(iv) B.Tech. + M.Tech. in Computer Science.	

The above is submitted for the consideration and approval of the Senate.

Item No. 98.10: To consider the proposal of the Department of Electronics and Communication Engg., for switch-over of Part Time-M.Tech. (VLSI) for Industry Professionals to Ph. D. programme.

The M. Tech. (VLSI) program for industry professionals has been introduced w.e.f. the Autumn semester of the AY 2021-2022. The programme is offered in the weekends predominantly in the online mode; examinations are conducted physically. The students include experienced working professionals from the VLSI related industries. Some of the current students in the programme are interested to switch-over to Part-Time Ph.D. programme.

It stated that there is a provision for the master's students to switch-over to Ph.D. programme subject to fulfilment of a set of criteria.

The IRC, in its 63rd meeting held on 28.06.2023, considered the proposal and decided to wait for the research output on the master's thesis of M. Tech. (VLSI) program before considering the switch-over option to Ph. D. program. The proposal was not recommended by the IRC at this stage.

The above is submitted for the consideration and approval of the Senate.

Item No. 98.11: To consider the revision in guidelines for Ph.D. Admission through Rolling Advertisement.

The IRC, in its 65th meeting held on 27.09.2023, considered and recommended the following revised guidelines (proposed) for Ph.D. admission through Rolling Advertisement:

Existing	Proposed
<p>Guidelines for Ph.D. Admission through Rolling Advertisement</p> <p>Eligibility:</p> <ol style="list-style-type: none"> Candidates should be recipient of any one <u>fellowship</u> e.g. UGC/CSIR/DBT/DST/Inspire/ICMR etc. Candidates need to apply within six months (i.e. 180 days) from the declaration of the fellowship result. If the date of fellowship result declaration exceeds more than six months (i.e. 180 days) on the date of submission of Ph.D. application, then such candidates are not eligible under Rolling Advertisement <p>Note: 1. Other eligibility requirement and Educational qualification will be same as existing in force.</p> <ol style="list-style-type: none"> Institute will not provide any financial assistance at any point of time GATE/GPAT etc. qualified candidates are required to apply through regular advertisement released during September and February every year through online portal. <p>Application Process: For admission to Ph.D. programmes through rolling</p>	<p>Guidelines for Ph.D. Admission through Rolling Advertisement</p> <p>Eligibility:</p> <ol style="list-style-type: none"> Candidates should be recipient of any one <u>fellowship</u> e.g. UGC/CSIR/DBT/DST/Inspire/ICMR etc. Candidates need to apply within six months (i.e. 180 days) from the declaration of the fellowship result. If the date of fellowship result declaration exceeds more than six months (i.e. 180 days) on the date of submission of Ph.D. application, then such candidates are not eligible under Rolling Advertisement <p>Note: 1. Other eligibility requirement and Educational qualification will be same as existing in force.</p> <ol style="list-style-type: none"> Institute will not provide any financial assistance at any point of time GATE/GPAT etc. qualified candidates are required to apply through regular advertisement released during October and March every year through online portal. <p>Application and selection Process:</p> <ol style="list-style-type: none"> Application process for admission to Ph.D. programmes through rolling advertisement will be online. Candidate may apply for more than one department/ centre/school.

advertisement, candidates need to apply online. The department will send a call for the interview on an appropriate date. The selected candidates will be registered for Ph.D. as per institute rule. Selected candidates will start working as JRF under the assigned faculty member (Ph.D. Thesis supervisor) from the date of selection in the admitting Department.

If the candidate is applying for more than one department/centre, separate applications should be submitted for each department /Centre.

The selection procedure will remain the same as adopted for admission with institute assistantship. The selection board will consist of all faculty members.

The maximum limit of Ph.D. candidates for individual faculty will remain the same as in force as per Ph.D. ordinances and regulations.

iii. The department will invite the shortlisted candidates for selection process.

iv. The selected candidates will be registered for Ph.D. programme in the current semester

v. Selected candidates will start working as JRF under the assigned faculty member (Ph.D. Thesis supervisor) from the date of admission in the admitting Department. However, the course work will be taken in the next semester, if the admission registration is after the last date for course registration in the current semester.

vi. The selection procedure will remain the same as adopted for regular admission. The selection board will consist of all faculty members.

vii. The maximum limit of Ph.D. candidates for individual faculty will remain the same as in force as per Ph.D. ordinances and regulations.

Fee:

In case, the candidate joined the programme in between a semester, the requisite fee as applicable has to be deposited by the candidate. However, the tuition fee will be applicable w.e.f. the semester in which the candidate registers for the required course work.

Schedule:

S. N.	Particulars	Dates/deadlines
1.	Date of opening of applications	Next date of Closure of regular Admission
2.	Date of closing of applications	One day before the start of application process for regular admission

	3	Dates of processing of applications by the Deptt	Aug - Oct. 15 (Autumn Semester) Jan. - Mar. 15 (Spring Semester)
	4	Date of Joining	Within 15 days after issuing of offer letter

The above is submitted for the consideration and approval of the Senate.

Item No. 98.12: To consider the proposal of the Department of Biosciences and Bioengineering to introduce M.Sc. (Biosciences & Bioengineering) through JAM from the AY 2024-2025 and to discontinue M.Sc. (BT) through GAT B.

Admission to M.Sc. (BT) offered by the Department of BSBE (the then Department of BT) was conducted through the JAM till the session 2020-21. Thereafter, there was an agreement with the DBT for 3 years to offer the M.Sc. (BT) programme sponsored by the DBT for candidates admitted through GAT B only. The structure was also revised vide the 88th meeting of IAPC, dated July 30/31, 2020.

As the three-year agreement for admission to M.Sc. (BT) through GAT B is expired, the Department of BSBE has proposed to introduce the M.Sc. programme with candidates admitted through JAM. The same is placed at **Appendix-A**. The department has proposed the new programme as - M.Sc. in 'Bioscience and Bioengineering'. The intake and other details proposed by the department are:

a) Intake and Seat Matrix- 35

S. No.	Dept. Name	Academic Programmes	Prog. Code	JAM paper Code	Total Intake	GEN	OBC	SC	ST	
1.	Biosciences and Bioengineering	M.Sc. in Biosciences and Bioengineering	1806	BT	35	14	9	5	3	4

b) MEQ- Any branch/subject in Bachelor's degree who qualified JAM paper Code BT.

The IAPC, in its 133rd meeting held on 20.09.2023, recommended the proposal to introduce M.Sc. (Biosciences & Bioengineering) through JAM from the AY 2024-2025 and to discontinue the M.Sc. (BT) through GAT B. The IAPC also recommended the Seat matrix and MEQ of the programme. It was also suggested that the programme structure be proposed aligned with the revised PG structure which is currently being reviewed.

The above is submitted for the consideration and approval of the Senate.

Minutes of Department Faculty Committee (DFC) meeting of the Department of Biosciences and Bioengineering, IIT Roorkee held on September 12, 2023 at 4:30 PM in the committee room.

The following faculty members attended meeting-

1. Prof. P. Kumar	Chairperson & Head
2. Prof. Kiran A.	Member
3. Prof. Harsh Chauhan	Member
4. Prof. Poonam Choudhary	Member
5. Prof. Bijan Choudhury	Member
6. Prof. Sanjoy Ghosh	Member
7. Prof. Rajesh Kumar	Member
8. Prof. Maya S. Nair	Member
9. Prof. Gopinath P.	Member
10. Prof. R. Pathania	Member
11. Prof. K.M. Poluri	Member
12. Prof. R. Prasad	Member
13. Prof. Soma Rohatgi	Member
14. Prof. Partha Roy	Member
15. Prof. Satyanarayan Rao	Member
16. Prof. P.P. Sarangi	Member
17. Prof. D. Sharma	Member
18. Prof. Jitin Singla	Member
19. Prof. D. Sircar	Member
20. Prof. Sachin S. Tiwari	Member
21. Prof. Prince Tiwari	Member
22. Prof. S. Tomar	Member
23. Prof. Shri Ram yadav	Member

The following were resolved:

1. The members discussed the course structures passed by DAPC for the new M.Tech.in (Bioscience and Bioengineering) and new MSc (Bioscience and Bioengineering) programs and the proposed course structures are given in Annexure I & II
2. The MEQ for M.Sc(Bioscience and Bioengineering),
Any branch/subject in Bachelor's degree who qualified JAM paper code BT,
Proposed number of seats = 35
3. The MEQ for M.Tech(Bioscience and Bioengineering),
Master's degree in Science or four year Bachelor's degree in Engineering or technology with maths at any level after class 10 and qualified GATE paper code BT / XL / BM
Proposed number of seats = 35
4. The proposed pre-PhD courses will be circulated by email to DAPC members for their suggestions.
 1. X-ray crystallographic techniques, 2. Advanced mycology, 3. Antibody engineering: Lab to industry, 4. Bioseparation engineering

5. DFC discussed and resolved that since the proposed model of MST instrument for Ashok Soota Molecular Medicine Facility (ASMMF) has been discontinued, so, in place of MST the protein purification system may be procured within the existing limit for MST instrument.
6. DFC also discussed and resolved that whenever ASMMF is used it should be duly acknowledged in students thesis and all publications. Also, only those faculties who have submitted the proposals for ASMMF will be allowed to use ASMMF. However, faculty members still can submit their proposal in the area of neuroscience/neurological disorders by September 30, 2023, if they want to use this facility.



(Prof. P. Kumar)
Head of the Department

विभागाध्यक्ष / Head
जैवविज्ञान और जैवअभियांत्रिकी विभाग
Department of Biosciences and Bioengineering
भारतीय प्रौद्योगिकी संस्थान / Indian Institute of Technology
रूड़की/Roorkee-247667 (U.K.) INDIA

Item No. 98.13: To consider the proposal of the Department of Mechanical and Industrial Engineering to allow degree with 67 credits to eight students of M.Tech. (Production and Industrial Systems Engineering).

Eight students of M.Tech. (Production and Industrial Systems Engineering), Department of Mechanical and Industrial Engineering registered for one of the PECs with 03 credits, instead of 04 credits during the Spring Semester 2022-23.

In the structure of M.Tech. (Production and Industrial System Engineering), all PECs are of 04 credits and the number of credits required for completion of the degree is 68. The said students, therefore, will earn 67 credits (instead of 68 credits) at the end of the programme while completing the required components.

In view of the above, it is proposed to grant one-time approval for award of degree with 67 credits to the 08 students of M.Tech. (Production and Industrial Systems Engineering) upon completion of the programme requirements.

The IAPC, in its 133rd meeting held on 20.09.2023, recommended the proposal.

The above is submitted for the consideration and approval of the Senate.

Item No. 98.14: To consider the proposal to introduce a Multi-disciplinary Course Basket (MDC) for one/two credit PG level professional/specialized courses to be offered for half a semester in the curriculum.

There is an increase in demand for new multi-disciplinary courses by the students and faculty members. The NEP-2020 also emphasizes on the need to adapt a multi-disciplinary approach in terms of courses and programmes offered by the educational institutes.

The Academic Affairs Office has recently received a few proposals in this regard. For example, the Department of Metallurgical and Materials Engineering (MMED) proposed to introduce a two-credit PG course i.e. “Engineering Applications of Diffractions” in the second term of Autumn Semester 2023-24. (**Appendix-A**). Another proposal is received from the Department of Mechanical and Industrial Engineering (MIED) to offer a half semester course on “Biomechanics of musculoskeletal system: modeling, and analysis” (**Appendix-B**).

The IAPC, in its 133rd meeting held on 20.09.2023, considered the proposal by the MMED and suggested to offer the said course as a series of lectures. However, the IAPC also suggested to introduce a multi-disciplinary basket of 01 or 02 credit PG courses.

In view of the above, it is proposed to introduce a multi-disciplinary course basket (MDC) with following provisions:

1. The basket may be named as “**Multi-disciplinary courses**” (MDC).
2. The Courses can be from different domains, for example - Yoga, Sports Medicine, International Conflict Solutions, Security in Democracy and e-government etc.
3. The basket is to comprise of **01 or 02 credit PG courses**; which may also be **offered to the UG students**.
4. The courses will be offered for **half a semester**. The students may register these courses either during the regular course registration, i.e. in the beginning of the semester, or immediately after the MTE (within 7 days).

5. The courses will be considered as '**Additional Courses**' (over and above the curriculum requirement).
6. The courses under the said basket can be opted by **IIT Roorkee students as well as external students**. The existing guidelines for registration of course(s) by external students shall be applicable for non-IIT (external) students.
7. The **course code** is to be prefixed with two letters of Deptt./Centre/School code, followed by 'M' and three numbers; for example, a course offered from the Deptt. of MMED will be "MTM: XXX".
8. The course syllabus under the said basket is to be proposed through DFC/CFC/ScAFC to IAPC.
9. **For the identification of faculty/ expert**, the following procedure be followed:
 - (a) The communication with respect to nomination/selection of the visiting/ guest faculty is to be through the concerned Department/ Centre/ School as per the institute (visiting/ guest faculty) rule.
 - (b) A renowned expert/scholar in the field, identified to teach a course under the basket, be approved by the Director on the recommendation of the following committee: -
 - (i) Dean of Academic Affairs – Chairperson, (Ex-officio)
 - (ii) Dean of Faculty Affairs – Member, (Ex-officio)
 - (iii) Dean, Sponsored Research & Industrial Consultancy – Member, (Ex-officio)
10. The **evaluation** of the courses –
 - (a) If offered in the beginning of the semester: to be completed during the Mid Term Examination (MTE); and
 - (b) If offered after MTE: to be completed during the End Term Examination (ETE).

The above is submitted for the consideration and approval of the Senate.

Zimbra**Fwd: MMED: Feedback on New PG course**

From : Head MME <head@mt.iitr.ac.in>
Subject : Fwd: MMED: Feedback on New PG course
To : Dean AcademicAffairs <daa@iitr.ac.in>
Cc : D.R.Academic <dracademic@iitr.ac.in>, DAPC Chair
MT <dapc@mt.iitr.ac.in>, Rajeshwar Reddy Eleti
<rajeshwar.eleti@mt.iitr.ac.in>

Wed, Sep 20, 2023 11:08 AM

 3 attachments

Prof. Apurbba Sharma
Dean Academic Affairs

Dear **Prof. Sharma**,

Please find attached the syllabus for the two-credit course on Engineering Applications of Diffractions which we propose to offer in the second term of the present Autumn semester. This syllabus has been circulated among the Institute faculty members for their input. I am also enclosing the DFC minutes which approved this course.

Kindly place it before the IAPC for its approval. Thanks!

-daniel

--

BSS Daniel
Head MMED

From: "Head Metallurgical and Materials Engineering" <head@mt.iitr.ac.in>
To: "Faculty-Notices" <faculty-notices@iitr.ac.in>
Cc: "DAPC Chair MT" <dapc@mt.iitr.ac.in>, "D.R.Academic" <dracademic@iitr.ac.in>, "Dean AcademicAffairs" <daa@iitr.ac.in>, "Dean facultyAffairs" <dfa@iitr.ac.in>
Sent: Wednesday, September 13, 2023 7:32:05 PM
Subject: MMED: Feedback on New PG course

Dear Colleagues,

I'm pleased to inform you that know that [Prof. Jerzy Szpunar](#) from the University of Saskatchewan, Canada is the distinguished visiting faculty of our Department, will be visiting IIT Roorkee between Sept 29 - Dec 1, 2023. To maximize the outcome of his visit, Prof. Szpunar is willing to offer a two credit course on **Engineering Applications of Diffraction** as a half-semester course in October - November, 2023.

The course syllabus is attached to this email for your consideration and feedback, if any, before forwarding to the IAPC for approval.

Sincerely,
-daniel

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DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

No. MMED/DFC/062023

Date: September 13, 2023

**Minutes of Departmental Faculty Committee meeting (DFC/06/2023), held on
September 13, 2023 (Wednesday) at 11:00 AM in the office of the Head, MMED**

Members Present:

Name	Presence	Name	Presence
Prof. Agarwal, Gautam	Y	Prof. Lahiri, Arka	Y
Prof. Baheti, Varun	Y	Prof. Lahiri, Debrupa	Y
Prof. Bhardwaj, Mukesh	Y	Prof. Lahiri, Indranil	Y
Prof. Chaudhari, G.P.	N	Prof. Meka, Sai Ramudu	N
Prof. Dabhade, V.V.	Y	Prof. Mishra, Sumeet	N
Prof. Daniel, B.S.S.	Y	Prof. Mula, Suhrit	Y
Prof. Das, Sourav	Y	Prof. Pancholi, Vivek	Y
Prof. Dhawan, Nikhil	Y	Prof. Prakash, Ujjwal	Y
Prof. Eleti, Rajeshwar R.	Y	Prof. Puri, Devendra	N
Prof. Ghosh, Supriyo	N	Prof. Sil, Anjan	Y
Prof. Ghosh, Sadhan	Y	Prof. Suresh, K.S.	Y
Prof. Jagtap, Piyush V.	Y	Prof. Tewari, Abhishek	Y
Prof. Karmakar, Anish	Y	Prof. Tripathi, Aparna	Y
Prof. Kumar, B.V.M.			

Prof. Daniel chaired the meeting and extended a welcome to all faculty members present.
The following agenda was up:

Agenda items:

1. To deliberate on the Vision and Mission statement of our Department

- It was decided to further deliberate to improve on the draft version of the Vision and Mission statements.
- Faculty members are assigned to submit a draft response to the inputs required for the Institute of Eminence proposal.

Other items:

1. **Two credit course on *Engineering Applications of Diffraction***

Prof. Jerzy Szpunar, who is the Distinguished Visiting Professor of the Department is visiting the IIT Roorkee between Sept 29 to Dec 1, 2023. To maximize the outcome of the visit it was decided to float a two credit PG course in the second term of the Autumn semester.

2. **Department website**

Faculty members felt that the draft website developed by Prof. Piyush Jagtap was better than the present website. Prof. Jagtap is requested to continue the effort.

The meeting ended with thanks to everyone.

(B.S.S. Daniel)

3. **New Program: MTech (Computational Materials Science) structure and course syllabus**

It was decided to change the name of the program to **Computational Materials Engineering**. The syllabus and structure of the new MTech program was discussed. Some modifications in the syllabus was pointed out. It was also suggested to increase the number of Computation related electives by including existing courses offered by other departments as PEC. With these recommendations the new program was approved.

4. **Progress of renovation and reorganization activity in the Department.**

The members expressed strong consternation regarding the delay in the renovation activity. It was pointed out that projects that were commenced in November 2022 have not been completed (MMED office/ Research scholar Lab/ Bathrooms). The recent rains notwithstanding, the number of laborers engaged by the contractor on a daily basis is very few leading to the delay. It is expected that the deadline of August 15th for the faculty office will be strictly adhered to as it remains a great sources of inconvenience to the faculty members during the semester with teaching commitments. It is also requested that a firm deadline may be given for each task that is undertaken by the contractor to ensure accountability.

Other matters

5. **Course Grading**

Grading is done online on the AAO web-portal with the faculty member entering the marks and approving the grades online. The Department would like to maintain the independence of the faculty members on grading matters. Nevertheless, to ensure that the grading conforms to the general guidelines of the institute, the course coordinator will submit the draft-grading (preferably on Excel) to the DAPC Chair (or his nominee) and get his/her consent before uploading the final grade on the website.

6. **Reporting Matter: PhD duration**

In the recent Senate meeting the Director had observed that the average duration for PhD thesis submission of PhD students graduating in this convocation is over six years for several departments (MMED ~6.4 years). He requested supervisors to spend more time with research scholars and expedite thesis work completion.

The meeting ended with thanks to everyone present.

(Sairam Meka)
Member Secretary

Copy to:

1. All faculty members, MMED
2. Superintendent to Head, MMED for filing and record

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

NAME OF DEPARTMENT: Department of Metallurgical and Materials Engineering

1. Subject Code: MTN-5xx **Course Title:** Engineering Applications of Diffraction

2. Contact Hours: L: 3; T: 0; P: 0

3. Examination Duration (Hrs): **Theory:** **Practical:**

4. Relative Weightage: CWS: PRS: MTE: ETE: PRE:

5. Credits: 2

6 Semester: Autumn

7. Pre-requisite: Materials characterization or XRD

8. Subject Area: PEC

9. Objective

To apply diffraction techniques in solving engineering problem

10. Details of the Course:

Sl. No.	Contents	Contact Hours
1	Review of basic concepts: Generation of X-rays, X-ray detectors, Brief review of crystallography, Diffraction methods.	3
2	Synchrotron and neutron diffraction: Choice of radiation, Generation of high energy beam, Detection methods, Scattering techniques, Diffractometer and spectrometer measurements, Pole figure and texture analysis	7
3	Residual Stress Determination: Different measurement techniques and challenges in the determination of residual stresses in rolled sheets, pipe lines, & additively manufactured samples.	4
4	Industrial Applications: Case studies in automotive, aerospace, mining and semiconductor industries	4
3	Applications involving semi-crystalline: Polymer industry, Pharmaceuticals, Paints and Pigments	6
	Total	21

11. Suggested Books:

Sl. No.	Authors/Name of Books/ Publisher	Year of Publications/ Reprint
1	B.D. Cullity and S.R. Stock, Elements of X-ray Diffraction 3 rd Edition, Pearson Publishers	2014
2	Frank Chung and Deane Smith, Industrial Applications of X-ray Methods, CRC Press	1999
3	M.E. Fitzpatrick, A Lodini, Analysis of Residual Stress by diffraction using neutron and synchrotron Radiation, CRC Press	2020

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE

NAME OF DEPARTMENT/CENTRE/SCHOOL: Department of Mechanical and Industrial Engineering

- 1. Subject Code:** MIN-XXX **Course Title:** Musculoskeletal system modeling and analysis
- 2. Contact Hours:** **L:** 3 **T:** 0 **P:** 0
- 3. Examination Duration (Hrs.):** **Theory:** 3 **Practical:** 0
- 4. Relative Weightage:** **CWS:** 20-35 **PRS:** 0 **MTE:** 20-30 **ETE:** 40-50 **PRE:** 0
- 5. Credits:** 2 **6. Semester:** Autumn **7. Subject Area:** PEC
- 8. Pre-requisite:** Dynamics
- 9. Objective:** Develops musculoskeletal models and perform analysis to predict forces and stresses in musculoskeletal joints and tissues; perform inverse dynamics analysis, simulation and optimization of various gait models.

10. Details of the Course:

S.No.	Contents	Contact Hours
1.	Introduction to musculoskeletal system and static analysis	4
2.	Muscle force distribution and optimization in musculoskeletal system	4
3.	Inverse dynamic analysis of movement	3
4.	Introduction of dynamic system modeling and simulation, hopping and inverted pendulum model	4
5.	Spring-loaded inverted pendulum (SLIP) model for walking and running	3
6.	Simplest walking model development and simulation	3
Total		21

11. Suggested Books:

S.No.	Name of Authors/Books/Publisher	Year of Publication/ Reprint
1.	Robertson, D. G., G. Caldwell, J. Hamill, G. Kamen, and S. Whittlesey. "Research methods in biomechanics 2nd ed." Boston (USA): Human Kinetics	2013
2.	Uchida, Thomas K., and Scott L. Delp. Biomechanics of movement: the science of sports, robotics, and rehabilitation. MIT Press,	2021
3.	Bartel, D. L., Davy, D. T., & Keaveny, T. M. Orthopedic biomechanics: mechanics and design in musculoskeletal systems. Pearson	2006
4.	Özkaya, Nihat, Dawn Leger, David Goldsheyder, and Margareta Nordin. Fundamentals of biomechanics: equilibrium, motion, and deformation. Springer	2016

Item No. 98.15: To consider the proposal of the revised name of the IKSHA Centre.

The Senate in its meeting 96th meeting has recommended the proposal to establish a new Centre –Centre for “Indian Knowledge Systems for Holistic Advancement (IKSHA)” to the Board. The Board in its 67th meeting vide resolution no.BG/22/2023 approved the proposal to establish a centre on “Indian Knowledge Systems”. Further, the Board advised that the acronym of the name should reflect the purpose of the Centre. Therefore, more deliberations be carried out on the proposed name ‘IKSHA’, and while proposing another.

The IKS Committee has now proposed revised name **RITAM** “**R**esearch **I**n bharatiya learning **T**raditions for holistic **A**dvance**M**ent”. It is the first word of our convocation Vedic chanting taken from [तैत्तिरीय उपनिषद्](#). It means "the state of consciousness that contains the 'whole truth'"

The above is submitted for the consideration and approval of the Senate.

Item No. 98.16: To report the approval accorded by the Chairman, Senate.

A. 1. Following faculty members were nominated as Senate nominees in the Institute Research Committee (IRC) as per Senate Manual Clause 3.2.2. 1 (vii) for a period of two years w.e.f. 8.09.2023 to 7.9.2025.

- (i) Prof. R.K. Peddinti, Department of Chemistry
- (ii) Prof. G.P. Chaudhari, Department of Met. & Mat. Engg.

2. On revision of grade in the department, one proposed of Mr. Rishi Barai (Enr. No.21510016 with SI.N.: 231077) was cancelled with a provision to grant an extension to Autumn Semester – 2023-24 for semester registration and accept the degree certificate to Mr. Shailesh Kumar Singh (En. No. 18312029) for award in Convocation 2023.

B. Recommendation of 132nd meeting of IAPC held on 23.08.2023.

1. Requests of the students under following categories: (Item No.: 132.2.1, 132nd IAPC dt: 23.08.2023)

Category-A: Continuation of programme

- 1. Nitish Kumar (Enr. No. 16115079), B.Tech. (EE), IV Yr (Approved)
- 2. Sumit Singh (Enr. No. 20520010), M.Tech. (CE), II Yr (Approved)

Category-B: Deletion of Course after the grading

- 1. Animesh Sharma (Enr. No. 20113024), B.Tech. (CE), IV Yr (Not Approved)
 - 2. Rishav Kumar (Enr. No. 20113127), B.Tech. (CE), IV Yr (Not Approved)
2. Requests of the following students regarding addition of course: (Item No.: 132.2.4, 132nd IAPC dt: 23.08.2023)
- 1. Yashu Kumar (Enr. No. 19312036), Int. M.Sc. (MA), V Yr (Approved)
 - 2. Anmol Kumar (Enr. No. 19310002), Int. M.Sc. (CY), V Yr (Approved)
 - 3. Tejas Gautam (Enr. No. 21113168), B.Tech. (CE), IV Yr (Approved)

3. Request for extension of the last date for submission of the mandatory remaining documents of UG and PG students. (Item No.: 132.2.5, 132nd IAPC dt: 23.08.2023)
4. Deferment of admission of three International candidates for one semester i.e. Spring Semester 2023 towards M.Tech. programme. (Item No.: 132.3.1, 132nd IAPC dt: 23.08.2023)

C. Institution of new awards/prizes/scholarships.

The following new awards/prizes/scholarships have been instituted which will be awarded from academic year 2024-25:

- 1) **Smt. Kuldip Kaur Memorial Gold Medal:** Mr. Niranjan Singh, an alumnus of 1968 batch of B.E. (Civil Engineering), has established a corpus to create one (01) Gold medal (of Rs. 40,000/- approx.) every year to the graduating student of M.Tech. (Civil Engineering) with specialization in Geomatics/Geospatial Engineering for securing the highest CGPA.
- 2) **Mrs. Chander Mohini Kapoor and Jeewan Kapoor Merit Prize:** Mr. Jeewan Lal Kapoor has established a corpus to support one (01) cash prize of Rs. 10,000/- every year to the graduating student of M.Tech. Artificial Intelligence for securing the highest CGPA.
- 3) **D.K. Pradhan-U.N. Mishra Cash Prize:** Mr. Dinesh Kumar Pradhan, an alumnus of 1968 batch of B.E. (Mechanical Engineering), has established a corpus to support one (01) cash prize of Rs. 10,000/- every year to the female UG student of III year being the best sportsperson in athletics.

4) New Merit Cum Means (MCM) Scholarships:

The awardees of following MCM scholarships will be selected adapting the prevailing procedure by SCSP to award Institute funded MCM scholarships and meeting the criteria as given below:

- (i) **Major Gautam Sanyal MCM Scholarship:** Major Gautam Sanyal, an alumnus of 1968 batch of

B.E. (Civil Engineering), has established a corpus to create one (01) MCM scholarship of Rs. 10,000/- every year to the financially constrained student from the Department of Civil Engineering.

- (ii) **Pandit Sohan Lal and Smt. Godavari Devi Kukreti MCM Scholarship:** Mr. Anant Ratna Kukreti, an alumnus of 1968 batch of B.E. (Civil Engineering), has established a corpus to create one (01) MCM scholarship of Rs. 10,000/- every year to the financially constrained male UG student from the Department of Civil Engineering.
- (iii) **Shri Mahabir Singh MCM Scholarship:** Mr. Rajendra Prasad Bhardwaj, an alumnus of 1968 batch of B.E. (Civil Engineering), has established a corpus to create one (01) MCM scholarship of Rs. 10,000/- every year to the financially constrained UG student from the Department of Civil Engineering.
- (iv) **Er. Shyam Lal Goel MCM Scholarship:** Mr. Shyam Lal Goel, an alumnus of 1968 batch of B.E. (Civil Engineering), has established a corpus to create one (01) MCM scholarship of Rs. 10,000/- every year to the financially constrained UG student from the Department of Civil Engineering.
- (v) **Vimal Preet Singh Kohli MCM Scholarship:** Mr. Trilochan Singh Kohli, an alumnus of 1968 batch of B.E. (Electrical Engineering), has established a corpus to create one (01) MCM scholarship of Rs. 10,000/- every year to the financially constrained UG student from the Department of Electrical Engineering.
- (vi) **Beeta Conveyors MCM Scholarship:** Mr. Shyam Lal Banga, an alumnus of 1968 batch of B.E. (Mechanical Engineering), has established a corpus to create one (01) MCM scholarship of Rs. 10,000/- every year to the financially constrained UG student from the Department of Mechanical and Industrial Engineering.

- (vii) **Er JP Shukla MCM Scholarship:** Mr. Jagdish Prasad Shukla, an alumnus of 1968 batch of B.E. (Civil Engineering), has established a corpus to create one (01) MCM scholarship of Rs. 10,000/- every year to the financially constrained UG student from the Department of Civil Engineering.
- (viii) **Smt. Darshan Narang Memorial MCM Scholarship:** Mr. Kharati Lal Narang, an alumnus of 1968 batch of B.E. (Metallurgy Engineering), has established a corpus to create one (01) MCM scholarship of Rs. 10,000/- every year to the financially constrained UG female student from the Department of Metallurgical and Materials Engineering. In the absence of the above, it will be given to a girl student of any other branch.

The above are reported to the Senate.

Any Other Items

Item No. 98.17: To consider the template of students' exit form for outgoing students while obtaining NOC.

IIT Council in its 55th meeting held on Apr 18, 2023 considered an item under No. 55.16 i.e., 'the report of the committee constituted to study dropout of students in IITs' and deliberated on strategies to minimize dropout of students. On the basis of various statistics provided by IIT Kharagpur, the Council decided that the IIT Kharagpur shall obtain inputs from all IITs in order to frame a strategy to address the issues which lead to dropouts. In this regard, a meeting was called by IIT Kharagpur on Aug 09, 2023 with Director/Dean of all IITs to prepare a report to be submitted to Council within 02 months.

Further to the meeting, a template of students' exit form is provided by the IIT Kharagpur to all IITs to furnish information on outgoing students while obtaining NOC.

It is proposed that the above format (**Appendix-A**) be made available to the students at the time of obtaining NO DUES for their responses.

The above is submitted for the consideration and approval of the Senate.

Template-Student-Exit-Form											
Name	Mobile	Gender	Category	Course	Admission Date	Leaving Date	Reason for Leaving (all the reasons enlisted should be populated as dropdown menu for the student, with Remarks column)	Months required	Course Level	Reason Group	Is it considered as Dropout?

Item No. 98.18: To consider the proposal of Department of Mehta Family School of Data Science and Artificial Intelligence to restrict the number of students in the minor specialization courses.

The Department has proposed to restrict the number of students to be allowed to register in the minor specialization course offered by the school as 05 vide its ScFC No. MFSDSAI/M.O.M/2023/144 dated 12/05/2023 (**Appendix-A**). The proposal was considered in the 130th IAPC dated 12.05.2023 and it suggested to apply the restriction of 10 students in each course during entry to minor specialization course in III year spring semester for the school in line with existing provision being practiced in other departments.

The above is submitted for the consideration and approval of the Senate.

No. MFSDSAI/M.O.M/2023/144

Date: 12/05/2023

Minutes of the ScFC & ScAPC meetings

The ScFC & ScAPC meetings were held on 11/05/2023 at 11:00 AM and 12/05/2023 at 10:30 AM, respectively in the committee room of the Mehta Family School. The following faculty members attended the meeting:

1. Prof. Durga Toshniwal (Head, MFSDSAI)
2. Prof. G. N. Pillai
3. Prof. Sanjeev Kumar
4. Prof. Simanchal Padhy
5. Prof. Gaurav Dixit
6. Prof. Mayank Goswami
7. Prof. Sparsh Mittal
8. Prof. Amit Aggarwal
9. Prof. Manu Kumar Gupta
10. Prof. Alok Bhardwaj
11. Prof. Soham Ray
12. Prof. Rishman Jot Kaur Chahal
13. Prof. Vimal Kumar

Agenda: new UG structure finalization

Following was discussed:

1. The Talent Enhancement Baskets (TEBs) and Minor specialization courses in the new UG structure were deliberated in great details, and both were finalized as follows:

Talent Enhancement Baskets (06 credits)

Talent Enhancement Baskets – I: Computer Vision and Image Processing	Talent Enhancement Baskets – II: AI for Sustainable Development Goals (SDG)	Talent Enhancement Baskets – III: AI for economics
i. DA-xxx Computer Vision ii. DA-xxx Image Enhancement Techniques iii. DA-xxx AI based earth imaging	i. DA-xxx AI for Energy ii. DA-xxx AI for Healthcare iii. DA-xxx AI for Smart Transportation	i. DA-xxx AI for e-commerce ii. DA-xxx AI Data Mining and Warehousing for online market places iii. DA-xxx AI for asset management

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Minor Specialization Courses (20 credits)

DA-2xx	Discrete Structures
DA-2xx	Artificial Intelligence
DA-2xx	Applied Machine Learning
DA-3xx	Computer Networks
DA-3xx	Principles of Databases

2. Issue of offering MSC was also deliberated, and following was decided:

Looking at current UG intake of 40 students for the B.Tech. in DS&AI in MFS, it was decided that the MSC will be offered by MFS with a cap of 5 students per subject.

The meeting ended positively with thanks to the chair.


(Vimal Kumar)

Chairman, ScAPC

Item No. 98.19: To report the approval accorded by the Chairman, Senate.

A. Recommendation of IAPC.

1. Requests of the students under following categories: (Item No.: 133.2.2, 133rd IAPC dt: 20.09.2023)

Category-A: Name Restoration

- i. Dharmendra Choudhary (Enr. No. 19115052), B.Tech. (EE), IV Yr (Approved)

Category-B: Addition/Change of course

- i. Vaibhav Dixit (Enr. No. 20121031), B.Tech. (PSE), IV Yr (Not Approved)
- ii. Vinod Kumar (Enr. No. 20121035), B.Tech. (PSE), IV Yr (Not Approved)

2. Requests of the following students under following categories: (Item No.: 133.3.1, 133rd IAPC dt: 20.09.2023)

Category-A: Addition of course

- i. Ankit Kumar (Enr. No. 19115028), B.Tech. (EE), IV Yr (Approved)

Category-B: Consideration of Credits obtained during semester exchange programme for the computation of SGPA & CGPA

- i. Diponker Karmoker (Enr. No. 22519006), M.Tech. (CE), II Yr (Not Approved)
3. Proposal of the Department of Management Studies to assign a separate course code for all EMBA courses for Executive MBA (EMBA) program: (Item No.: 133.3.3, 133rd IAPC dt: 20.09.2023)

B. Recommendations of IRC on the following items w.r.t. the request / mercy appeal of Ph.D. students and one PG student.

i. 63rd IRC dated 28.06.2023

1. The 2nd Mercy Appeal of Mr. Tejveer (Enr. No. 189190211), ex.-Ph.D. student, Department of Mathematics.
2. Mr. Devdutt Singh (En. No. 16921004), ex.-Ph.D. student, Dept. of Met. & Mat. Engg.
3. Mr. Vivek Vyas (En.No.: 16918013), ex.-Ph.D. student, Dept. of Management Studies.
4. Ms. Ruchika Singh Rajput, Ph.D. student, Department of Electronics & Communication Engg. (Enr. No. 22915032) regarding permission to appear for comprehensive exam and to present her Ph.D. proposal and to convert her status from full time to part time.
5. Mr. Sunil Yadav, (En.No. 14917006), Ph.D. student, Dept. of Hydrology.
6. Opinions of Departments/ Centres/ School on the proposal for establishment and operation of Academic Bank of Credits at IIT Roorkee.
7. Km. Neeraj Singh (En.No. 18919006), Ph.D. student, Department of Mathematics for conversion of her Ph.D. from Full- Time to Part-Time.

ii. 64th IRC dated 25.8.2023

8. Mr. Akash Raj, (En.18920055), ex-Ph.D. student, Deptt. of Mechanical & Industrial Engineering.
9. Mr. Suman Narayan, (En.20535028), ex-Ph.D. student, Deptt. of Computer Science & Engineering.
10. Mr. Himanshu Bana, (En.15910029), ex-Ph.D. student Deptt. Civil Engineering.
11. Mr. Esmatullah, (En. 18548007), ex-Ph.D. student Deptt. WRDM for reinstatement of his academic registration:

12. Ms. Lipi Mishra (En. No. 13914014), Ph.D. student, Deptt. of Civil Engineering.
13. Mr. Rajesh Kumar Vishwakarma, (En.No. 15917002), Department of Hydrology.
14. Mr. Luxman Kumar, (En.No. 13917011) Ph.D. student, Deptt. of Earthquake Engineering:
15. Recommendations of Special SRC w.r.t. Ms. Konala Akhila (En. 20922003), Ph.D. student, Department of Paper Technology for early submission of Ph.D. Thesis.
16. Request for Ph.D. students registered in Autumn Semester 2023-24 who could not submit mandatory remaining documents for continuation of programme.

iii. 65th IRC dated 27.09.2023

17. Ms. Iqra Rafiq, (En. 17902014), ex-Ph.D. student, Deptt. of Architecture & Planning.
18. Ms. Roshani Singh, (En. No. 18912017), ex-Ph.D. student, Deptt. of Earth Sciences.
19. Rahul Kumar, (En. No. 23915019), ex-Ph.D. student, Deptt. of Electronics & Communication Engineering.
20. Vikas Meena (En. No. 23616033), **ex-M.Sc.** first year student, Deptt. Mathematics.
21. Mr. Amit Kumar Singh Chauhan (En. No. 23915031) Ph.D. student, Deptt. of Electronics & Communication Engg., to accept the Ph.D. course work completed during 2015-16.

iv. MOUs (64th IRC)

1. Memorandum of Understanding (MoU) between Indian Institute of Remote Sensing (IIRS) and Indian Institute of Technology, Roorkee (IITR).
2. Dual Doctoral Degree Program (DDDP) agreement between IIT Roorkee and Institute of Engineering, Tribhuvan University (IOETU).

The above are reported to the Senate.