MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY
JAIPUR-302017

AGENDA FOR THE FORTY-TWO SENATE MEETING

Meeting Number : FORTY-TWO

Venue : NKN-1 (Online)

Date : 09TH SEPTEMBER, 2021 (THURSDAY)

Time : 11.00 AM

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

AGENDA FOR THE 42nd MEETING OF THE SENATE TO BE HELD ON 09TH SEPTEMBER 2021 (THURSDAY) AT 11.00 AM

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Item No. 42-1.0	**To confirm the minutes of the 41st meeting of the Senate held on March 18th, 2021.** The 41st Senate meeting was held on March 18th, 2021. The draft minutes of the meeting were circulated to all the Senate members and comments received were incorporated. The Senate may kindly confirm the minutes placed as **Annexure-A (Pg. 1 to 7).**
Item No. 42-2.0	**To note the "Action Taken" on the decisions taken in the 41st meeting of the Senate.** The "Action Taken Report" of the 41st meeting of the Senate is placed as **Annexure-B (Pg. 8 to 13)** for consideration of the Senate.
Item No. 42-3-0	**Items for consideration.**
Item No. 42-3.1	**To consider the proposal received from the Department of Humanities and Social Sciences for a Master's program in Public Policy and Development.** The matter to consider the proposal of Department of Humanities and Social Sciences for a Master's program in Public Policy and Development was discussed in 41st Senate meeting held on 18th March 2021 under Agenda Item No. 41-3.8. Following are the respective minutes for ready reference. *"Head of the department, Humanities and Social Sciences made a brief presentation highlighting the salient points of the proposal. The Senate recognized and appreciated the efforts and hard work done by the department of Humanities & Social Sciences. Further it was mentioned that starting a new Program is a policy decision which is required to be taken for approval to the BOG and MoE. Therefore, Senate recommended the proposal to be vetted by a wide ranging committee including external expert members from IIT's, NIT's and other reputed institutes and also the members from the department. Also, the Senate observed that MNIT being an Institute of National Importance, the admission to this program should be through a national level examination equivalent to other PG program entrance examination and not on the basis of the examination conducted at the institute level. Further the Senate authorized the Chairman, Senate to constitute a separate committee to review the proposal submitted by the department of Humanities and Social Sciences."* Accordingly, a committee was constituted by office order F.No. F4/ S-V-1/20-21-Acad-type (41-Senate)/154 dated April 9, 2021. The committee had intense deliberations and brainstorming to finalize the recommendations through three meetings held on April 19th, 26th and May 5th 2021. The committee recommended the following eligibility criteria and admission process for the admission :- "Eligibility" • The applicant must have a Bachelor's degree in Humanities and Social Sciences /Management/ Commerce/ Engineering. • A minimum of 6.5 CGPA on the 10 point scale (60% marks, only where CGPA is not awarded) with a relaxation for SC/ST implying minimum of 6.0 on the

	10 point scale (55% marks, only where CGPA is not awarded) • Reservation policy as stipulated by Government of India/MHRD shall be applicable. • Eligibility criteria shall be revised as per MNIT PG regulations from time to time "Admission Process" • Admission procedure shall be similar to as followed in other IITs/NITs as of now. • One of the essential eligibility criteria would be to qualify the GATE (Humanities and Social Sciences)*/National level test conducted by MNIT as per existing guidelines; • The short-listing of applications for the purpose of admission will be done by the DPGC of the HSS. • Thereafter, the candidate will be assessed for admission through written test and interview by DSC of the department. • Assessment will test the logical aptitude, numerical and data aptitude/ Analytical skill, writing, verbal and interpersonal skills and policy and development awareness skills of the applicants. • In future, MNIT shall participate in admission process at National level (analogous to CCMT) whenever it is initiated. The committee members recommended going ahead for the Masters Programme in Public Policy and Development proposed by the Department of Humanities and Social Sciences, subject to approval from the statutory bodies. The minutes of meeting of the committee is placed at **Annexure-C (Pg. 14 to 22).** The matter is submitted before the senate for its consideration and approval. So that this can be added to MNIT PG Rules & Regulations.
Item No. 42-3.2	**To consider the guidelines for maintaining academic integrity.** The matter regarding the guidelines for maintaining academic integrity was earlier discussed vide Agenda 41-3.14 in 41st meeting of Senate held on 18th March 2021, however, the senate decided to review the Agenda. In this regard, an email was circulated to all the departments to give their suggestions on the abovementioned guidelines. Only response from Materials Research Centre was received. The following modifications/corrections were suggested by the Material Research Centre :- 1. Similarity checks for exclusion from plagiarism may be changed to "Maximum 8 word count is allowed for both UG as well as PG and Ph.D. students". 2. Levels of Plagiarism: Maximum 15% similarity index is allowed for the thesis, dissertation and reports submitted by the UG, PG and Ph.D. students may be modified as : Levels of Plagiarism: Maximum 20% similarity index is allowed for the thesis, dissertation and reports submitted by the UG students and 15% is

* At present, GATE(HSS) is being conducted in following six subjects: economics, English literature, linguistics, sociology, psychology and philosophy.

	allowed for PG and Ph.D. students. However, if the similarity index from all the individual sources is <1% (for a PG or Ph.D. student), then a similarity index upto 20% may be allowed. The matter was discussed in 47th meeting of SPGB. SPGB deliberated upon the issue and decided to recommend the proposed modification by the Material Research Centre to the senate for approval. The guidelines proposed in 41st Senate and revision suggested by Material Research Centre along with SPGB minutes are placed at **Annexure-D (Pg. 23 to 25)** respectively. The matter is placed before the Senate for its consideration and directions.
Item No. 42-3.3	**To consider the proposal to revise the eligibility criteria for admission in Ph.D. Programmes in the Department of Management Studies.** A proposal was received from the Department of Management Studies to consider the revision in eligibility criteria for admission in PG and Ph.D. programmes The matter was placed before the Senate in its 41st meeting held on 18th March 2021 under item no. 41-3.6, however, the proposal for revised eligibility for Ph.D. admission in DMS could not be discussed due to oversight. Now, the Department of Management Studies has submitted to consider the agenda item in 42nd meeting of the Senate. The initial proposal submitted by the Department of Management Studies is as under: *"the Ph.D. admission coordinators face issues in determining the eligibility owing to the multiple naming schemes used by the Universities across the country. Further, most of the reputed institutions (including many IITs/NITs) offering Ph.D. (Management) program do not restrict the minimum qualification on the basis of the degree area/specializations". Hence, it is proposed to revise the minimum eligibility requirement for the Ph.D. Management programme as "the applicant must have a two-year post-graduate degree or equivalent from a recognized institute/University with CGPA not below 6.5 on a ten-point scale or 60% marks (where CGPA is not awarded). For equivalence of program, a certificate from AIU to the effect is mandatory"* Matter is placed before the Senate for its consideration and approval.
Item No. 42-3.4	**To consider the proposal to add "Absolute Method for Award of Grades" in PG regulations for courses where number of registered student is not more than 30.** As per MNIT UG regulations clause "10.3 ABSOLUTE METHOD FOR AWARD OF GRADES" , the award of grades based on absolute marks out of 100 shall be based on the marks distribution as given in following Table. The grade boundaries as indicated above may be marginally adjusted and the upper and lower limits are subject to limitations of percentage of marks. **Table: Grades according to absolute marks** Range of Marks | Grade 90 – 100 | AA 80 – 89 | AB

	<table><tr><td>70 – 79</td><td>BB</td></tr><tr><td>60 – 69</td><td>BC</td></tr><tr><td>50 -59</td><td>CC</td></tr><tr><td>40 -49</td><td>CD</td></tr><tr><td>35 - 40</td><td>DD</td></tr></table> Matter is placed before the Senate for its consideration.
Item No. 42-3.5	**To consider the proposal of** **(a) MOOC courses for completion of credits towards degree** **(b) pro-rate or credit-based fees** There have been cases where some undergraduate students need only a few credits to complete requirements of the award of the degree. If the requisite course(s) are not being offered by the Department in the semester under consideration, such students may be allowed to complete credits through MOOC (Swayam/NPTEL/Coursera/EDX etc.) courses decided by DUGC as per what courses need to be completed by the respective student. Additionally, it is proposed that students be charged pro-rate fees decided by the credits to be considered. For calculation of the fees, 24 credits may be deemed baseline for a semester. Matter is placed before the Senate for its consideration.
Item No. 42-3.6	**To consider the approval of amendment in minimum eligibility criteria for Ph.D. & M.Tech admission at CEE.** A proposal from Centre for Energy and Environment was received to revise the eligibility criteria for admission in Ph.D. and M.Tech Programs. The details are as follows: - **a.** Ph.D. – Currently, minimum eligibility criteria for Ph.D. admission at CEE is "B.Tech. /B.Arch. with post-graduation in relevant discipline". The present and proposed revised eligibility criteria submitted by the department along with minutes of DPGC are placed at **Annexure-E (Pg. 26-28).** **b.** M.Tech- CEE offers an interdisciplinary M.Tech in Renewable Energy for wide range of specialization. To improve the visibility, it is proposed with addition of "any other relevant specialization" to the existing minimum qualifications. The matter was discussed in 47th meeting of SPGB under Agenda Item No. 47-2.8. SPGB deliberated upon the issue and recommended the proposal submitted by the Department of the Centre for Energy & Environment to be placed before the Senate for approval. **[Please refer to Annexure-H (55 to 61)].** The matter is placed before the senate for consideration and approval

Item No. 42-3.7

To consider the proposal received from Department of Mechanical Engineering and Department of Physics to introduce new elective courses.

1. **Department of Mechanical Engineering** - The Department of Mechanical Engineering has proposed the new elective courses. The details are as below :-

i. Machine Learning (MET 477) – Adv. Program Elective.
ii. Reliability and Maintainability Engineering (MET 478) - Adv. Program Elective.
iii. Strategic Product Development (MET 495) - Open elective course.
iv. Introduction to Sports Engineering (MET ...) - Open elective course.
v. Welding Engineering and Technology (MET ...) - Program elective course.

2. **Department of Physics** – The Department of Physics has proposed one elective course "Organic Electronic Material and Devices (PHT 422)".

The matter was discussed in 33rd meeting of SUGB held on 20th July 2021. SUGB deliberated upon the issue and recommended the above mentioned proposals to be placed before the Senate for approval. Courses and respective syllabi are placed at **Annexure-F (Mechanical Engg.: Pg. 29-44, Physics: Pg. 45-53).** Minutes of SUGB minutes are placed as **Annexure J (Pg. 129 to 133).**

The matter is placed before the Senate for its consideration and approval, if approved; Senate may authorize the Chairman Senate to approve the course code as assigned by the respective department.

Item No. 42-3.8

To consider the list of UG students who have reached their maximum limit of duration for completing the B. Tech. degree at MNIT Jaipur.

As per UG Rules & Regulations manual for undergraduate programmes, July 2012 (point no. 13.2), the maximum duration is 6 years for the degree of B.Tech and 7 years for B.Arch.

Thereafter, in accordance with amendment in UG Rules & Regulations (Manual July 2012) vide office order no. F.4 (P) 35 Senate/MNIT/Acad/2016/1639 dated 15/12/2016, the minimum and the maximum permissible number of registered semesters for completing all degree requirements are revised as below.

Minimum and Maximum permission duration for completing degree requirements.

Academic programme	Minimum number of registered semesters	Maximum number of registered semesters
B.Tech.	8	14
B.Arch.	10	16

The Maximum duration for a student for complying with the Degree Requirement is EIGHT years (NINE years for B. Arch.) from the date of first registration for his first semester.

The matter to consider the **list of UG students who have reached their maximum limit of duration for completing the B. Tech. degree at MNIT Jaipur** was discussed in 33rd meeting of SUGB held on 20th July 2021. The cases of following students were discussed :-

S No	Student Id	Student Name	Credits required to complete the Degree	Registered Credits	Earned Credits	CGPA	Registration Status	Status
1	2012UCP 1066	KANAK PARMAR	201	200	193	4.77	Not registered from Jan 2019 i.e. from 14th Semester	Inacti ve .
2	2013UEC 1051	SHILPA ANN SAJI	202	200	191	5.09	Not registered from July 2020 i.e. from 15th Semester	Inacti ve
3	2013UEE 1461	AJAYA TUDU	201	201	185	5.23	NA	Active

The SUGB deliberated upon the issue and decided that the Concerned Department's and Academic Section will try to contact such students and based on the responses of the students the matter may be discussed in the next senate meeting.

In this regard, we have received the request from the following students regarding their willingness to continue the programme.

S No	Student Id	Student Name	Credits required to complete the Degree	Registered Credits	Earned Credits	CGPA	Registration Status	Status
1	2012UCP 1066	KANAK PARMAR	201	200	193	4.77	Not registered from Jan 2019 i.e. from 14th Semester	Inacti ve

The matter is placed before the senate for consideration and directions.

Item No. 42-3.9

To re-consider the conditions of NoC to be submitted by the Ph.D. students from their employer (more than 70 Km from Jaipur) for converting from Full-Time to Part-Time/Off-campus before completion of three years from registration to Ph.D. programme.

As per existing PG regulations, a Full-time student registered to Ph.D. programme has to submit a NOC from his employer if he/she want to convert to Part Time/Off-campus

The matter was discussed in 47th meeting of SPGB under Agenda Item No. 47-2.9 and the SPGB decided that a committee may be constituted by the Dean Academic to deliberate the matter and give its recommendation.

In light of above, a committee was constituted by the Dean Academic vide office order no. 440 dated 09-08-2021. The meeting of the committee was held on 11th

	August 2021. The recommendation of the committee **[Annexure-G (Pg. 54)]** are as follows: 1) The Ph.D. students applying for conversion from full time to part time (**irrespective of the distance of the organization from MNIT Jaipur)** are required to submit a NOC on the letter head of Institute/Organization in the following format:- "This is with reference to Mr./Ms. _____ working in this organization as _____(post). The undersigned has no objection to permit Mr./Ms. _____for pursuing the Ph.D. programme (part time) at MNIT Jaipur in the Department of_____. This bears the approval of competent authority." The conversion would be allowed only if the student has satisfied the minimum period of residence as Full-time student. The students converting from full time to part time are not allowed to submit the Ph.D. thesis before one year from the date of issue of NOC by the institute/organization or minimum residency period* (as decided by Senate from time to time) for Part-Time students, whichever is later. Such students also need to fulfill any minimum attendance requirement as stipulated in PG regulations or decided by respective supervisor(s)/DREC, whichever is more (in terms of number of days). The recommendations of the committee are placed at **Annexure-G (Pg. 54).** The matter is placed before the senate for kind consideration and directions.
Item No. 42-3.10	**To consider the issue of slots of Ph.D. admission as proposed by the Department of Management Studies and Department of Humanities & Social Sciences.** As per the 37th Senate under item no. 37-4.10, following are the rule position for the Department of Humanities and Social Sciences and Department of Management Studies. 1. Each faculty of Department of Management Studies as well as Department of Humanities and Social Sciences **can take one student with Institute fellowship/assistantship.** 2. Eligibility for getting Institute fellowship/assistantship will remain UGC-NET qualification for award of research fellowship. 3. The faculty can engage next student with Institute fellowship/assistantship only after the candidate has submitted his/her thesis. Recommendations of the committee at point No.1 "each faculty of Department of Management Studies as well as Department of Humanities & Social Sciences can take one student with Institute fellowship/assistantship" has been implemented from Odd Semester 2017 after approval of Chairman Senate. The matter regarding counting of slot of supervisor under Institute Assistantship was

* It may be noted that vide decision regarding Item No. 32 -4.7 of 32nd Senate held on 28th March 2015, PG regulations Clause 6.1 is as follows:

"The minimum period of residency for a Ph. D. (FT/PT non sponsored) student shall be 2 years/ 3 years (depending upon the program as stipulated in PG regulation) from the date of initial registration. However, no demarcation would be made regarding the residency period based on the date of completion of comprehensive exam/ State of art seminar."

	discussed in 39th meeting of senate under Agenda Item no. 39-3.10 and it was decided to increase the slot of Institute Assistantship for Ph.D. from existing two slots per faculty to three slots per faculty at any given time. The senate has also approved the maximum number of institutional full time Ph.D. slots per faculty as 5 (five). That is 3 (three) slots with institutional fellowship and 2 (without) slots without institutional fellowship. Also, the maximum number of Ph.D. supervisions (Head count of scholars) per faculty at a time has been approved as 10 irrespective of the categories of admission (i.e. full time, part time, JRF, SRF, Project, QIP etc.). In light of above, the scholarship slot for the Department of Humanities & Social Sciences and Department of Management Studies **was increased from existing one slot per faculty to two slots per faculty keeping other condition same as per 37th Senate decision under item no. 37-4.10.** Now, Department of Humanities & Social Sciences and Department of Management Studies has proposed to approve the 3 Institute Scholarships per faculty instead of two, in consistency with the other departments at MNIT, Jaipur. The matter is placed before the senate for kind consideration and directions.
Item No. 42-3.11	**To consider the proposal to revise/modify the criteria for addition of joint-supervisor (external / internal) in Ph.D. programme.** As per the approval in 41st meeting of the Senate held on 18th March 2021, the NIRF ranking is to be considered for addition of Joint Supervisor (external/internal) with an exception to the institutes having Academic MOU or Academic/Research Collaboration with MNIT, Jaipur. Further, the same of was communicated vide office order no. F. No. F4/S-V-1/20-21-Acad-Typ (41-Senate)/192 dated 20-04-2021 In this regard, a proposal is received from Prof. G. D. Agarwal, Department of Mechanical Engineering to modify/revise the criteria for addition of joint supervisor in Ph.D. programme. Prof. G. D. Agarwal has proposed that, in line with, the practice followed in many IIT's and NIT's "NIRF ranking should not be applicable for Government (Centre/state) institutes or Government funded Institutes or autonomous Government Institutes or Government Universities" The matter was discussed in the 47th meeting of the SPGB under Agenda Item No. 47-2.8 and it was decided that Dean Academic will constitute a committee to look into the proposal submitted by the Department of Mechanical Engineering in line with the decision taken by the Senate in its 41st meeting held on 18th March 2021. In light of above, a committee was constituted by the Dean Academic vide office order no. 440 dated 09-08-2021. The meeting was held on 11th August 2021 and as per the discussion in the meeting, the following decisions were made in respect of the agenda "to revise/modify the criteria for addition of joint-supervision (external/internal) in Ph.D. program". Minutes of meeting are placed at **Annexure-G (Pg. 54).** The committee unanimously agreed to retain the Senate decision vide Item No. 41-3.13 and notified vide office order no. F. No. F4/S-V-1/20-21-Acad-Typ (41-Senate)/192 dated 20-04-2021 along with the addition of the following :- • Exceptional cases not included in the above office order may be allowed subject to approval by Chairman Senate. Such cases need to be justified by

	the Supervisor and favorably recommended by DPGC of the respective department, • Foreign university within QS/THE 500 (Ranking for International Institutes will not be considered for the institutes having Academic MOU or Academic/Research collaboration with MNIT Jaipur) / World renowned Research Organization/Lab. The recommendation of the committee is placed at **Annexure G (Pg. 54).** The matter is placed before the Senate for its consideration and direction.
Item No. 42-4-0	**Items for Ratification and Reporting.**
Item No. 42-4.1	**Minutes of the 47th meeting of SPGB held on 06th August, 2021.** The 47th meeting of Senate Postgraduate Board was held on 06th August, 2021. The minutes of the SPGB approved by Chairman, Senate is placed as **Annexure H (Pg. 55 to 61)** for reporting and ratification.
Item No. 42-4.2	**To report the new PG Schemes.** The new PG schemes were submitted by the departments and was discussed in 47th SPGB under Agenda Item No. 47-2.12. The SPGB deliberated upon the issue and decided to recommend the new PG Schemes proposed by the departments for approval of the senate. [**Annexure I {Pg. 62 to 128 (ii)}**] as the Senate was not in session the new PG Schemes was approved by the Chairman Senate. The matter is placed before the senate for reporting and ratification.
Item No. 42-4.3	**Minutes of the 33rd meeting of SUGB held on 20th July, 2021.** The 33rd meeting of Senate Undergraduate Board was held on 20th July, 2021. The minutes of the SUGB approved by Chairman, Senate is placed as **Annexure J (Pg. 129 to 133)** *for* reporting and ratification.
Item No. 42-4.4	**To report the minutes of 20th & 21st meeting of Academic Affairs Committee meeting held on July 26, 2021 and 30th July 2021 in respect of readmission of Mr. Lakhinana Tharaka Rathna (2020PTE5343).** The 20th & 21st meeting of Academic Affairs Committee meeting was held on July 26, 2021 and 30th July 2021. The minutes of the AAC are placed at **Annexure K (Pg. 134 to 136)** for reporting and ratification. Mr. Lakhiana Tharaka Rathna has withdrawn from M.Tech programme of the Institute vide approval dated 07th April 2021. He, however, has requested for readmission. The matter was discussed by the Academic Affairs committee in its 21st meeting held on 30th July 2021 and the committee members deliberated on the matter and decided that the request of the student be considered for readmission and case be made and sent to Senate Chairman for his approval. Once readmitted, the student may be asked to take semester withdrawal for the second semester. The readmission of Mr. Lakhinana Tharaka Rathna (2020PTE5343) was permitted by the Chairman Senate.

<table>
<tr><td></td><td>The matter is placed before the senate for reporting and ratification.</td></tr>
<tr><td>Item No. 42-4.5</td><td>To ratify the additional qualification(s) for admission to M.Tech. (Environmental Engineering) by the Department of Civil Engineering.

An email was received from the Coordinator CCMT 2021 to allow addition of any missing qualifying degree and/or GATE/JAM exam paper mapping and addition/ deletion of any existing mapping and addition of any new qualifying degree or new special eligibility condition(s).

In response to the above, following recommendations was received from the DPGC of the Civil Engineering Department.

(1) Students of B. Tech. (Environmental Engineering) shall be allowed for admission to our M.Tech. (Environmental Engineering) program with GATE paper in Environmental Science and Engineering.

(2) Also students who qualified GATE with Environmental Science and Engineering (E.S) paper and B.E./B.Tech. (Civil) should also be considered for the admission to our M.Tech. (Environmental Engineering.) programme

In view of ongoing admissions for this semester, approval was obtained from Senate Chairman. The matter is placed before the senate for reporting and ratification. [Annexure L (Pg. 137)].</td></tr>
<tr><td>Item No. 42-4.6</td><td>To ratify the additional qualification(s) for admission to M.Tech (Metallurgical & Material Engineering) by the Department of Metallurgical & Material Engineering.

Vide an email, CCMT 2021 has allowed the changes in qualifying degrees, mapping of qualifying degrees and GATE/JAM papers, new programmes etc.

In this regard, the Department of Metallurgical & Material Engineering has recommended the addition of following qualifications for admission to M.Tech (Metallurgical & Material Engineering).

<table>
<tr><th>Degree Eligibility</th><th>Degree Code</th><th>GATE Code</th></tr>
<tr><td>M.Sc. in Material Science</td><td>S518</td><td>MT, XE, PH, CY</td></tr>
<tr><td>M.Sc.in Materials Science Solid State Physics</td><td>S558</td><td>MT, XE, PH</td></tr>
<tr><td>The Institution of Engineers (India) (IE)</td><td>R101</td><td>MT, XE, ME</td></tr>
<tr><td>M.Sc. in Applied Science</td><td>S504</td><td>MT, ME, XE, CY</td></tr>
</table>

The matter was discussed in the meeting of DFB and the approval was accorded by the Director/Chairman Senate. Thereafter, it was reported in the 47th meeting of SPGB. [Annexure M (Pg. 138 to 139)].

The matter is placed before the senate for reporting and ratification.</td></tr>
<tr><td>Item No. 42-4.7</td><td>To ratify the addition of qualification for M.Sc. admissions.

Respective documents are placed as Annexure N (Pg. 140).

The matter is placed before the senate for reporting and ratification.</td></tr>
<tr><td>Item No. 42-4.8</td><td>To ratify the list of the students eligible for award of degree in UG, PG and Ph.D.</td></tr>
</table>

	programmes (Graduated in 2021) in the forthcoming Convocation. The students who graduated in academic year 2020-2021 are required to be awarded the degree in forthcoming Convocation. The list of Undergraduate students duly recommended by the SUGB in its 33rd meeting under Item No. 33-2.1 placed as **Annexure-O 1 (Pg. 141 to 155).** The list of Postgraduate students duly recommended by the SPGB in its 47th meeting under Item No. 47-2.1 placed as **Annexure-O 2 (Pg. 156 to 173).** The list of Research Scholars graduated in 2021 is placed as **Annexure-O 3 (Pg. 174 to 177).** As per the rules & regulations for award of degree, the Board of Governors, on recommendation of the senate is authorized to award a degree to any student. Circumstantially, the meeting of the BOG was held prior to the meeting of the senate and as the senate was not in session, the approval of Board of Governors was taken on recommendation of Chairperson Senate. The abovementioned lists are placed before the Senate for reporting and ratification.
Item No. 42-4.9	**To ratify the names of the students for award of Gold Medals in the respective UG and PG programmes.** Based on the highest CGPA attained by the students (**Graduated in 2021**), the names of the students eligible for award of Gold Medals in UG & PG programmes in 15th Convocation The list of Undergraduate students to be honoured with Gold Medal duly recommended by the SUGB in its 33rd meeting under Item No. 33-2.2 placed as **Annexure-P 1 (Pg.178).** The list of Postgraduate students to be honoured with Gold Medal duly recommended by the SPGB in its 47th meeting under Item No. 47-2.1 placed as **Annexure-P 2 (Pg.179).** As per the process, the Board of Governors, on recommendation of the senate is authorized to award Gold Medals to the students based on the highest CGPA. Circumstantially, the meeting of the BOG was held prior to the meeting of the senate and as the senate was not in session, the approval of Board of Governors was taken on recommendation of Chairperson Senate. The abovementioned lists are placed before the Senate for reporting and ratification.
Item No. 42-4.10	**To ratify the revision in courses as proposed by the Department of Physics and Department of Humanities & Social Sciences.** The Department of Humanities & Social Sciences and the Department of Physics had proposed the revision in courses. The matter was discussed in 33rd meeting of SUGB under Agenda Item No. 33-2.5 and 33-4.1 respectively. The SUGB deliberated upon the issue and approved the proposal. Minutes of SUGB are placed at **Annexure-J (Pg. 129 to 133).** The matter is placed

	before the senate for reporting.
Item No. 42-4.11	**To ratify the clarification regarding uniformity in policy for conduction of re-exam for MTE and ETE for students who missed their exam because of genuine reasons.** *"Section 11.2 of UG Regulations states that a student who misses the Mid-Term Exam (MTE) for genuine reasons may reappear for the same within 2 weeks of the exam, while a student who misses the End term Exam (ETE) for genuine reasons may reappear for the same within 10 days of the last day of ETE.* The matter was discussed in 33rd meeting of SUGB under Agenda Item No. 33-2.8 and it was brought to the notice that *"The policy regarding the conduct of repeat MTE and ETE should be the same as having different provision for these exams sometime gives rise to confusion and it was proposed that the deadline for repeat exam should be similar for both the cases like the repeat exam shall be held within 10 working days of the last day the regular exam (whether MTE or ETE).* The SUGB deliberated upon the issue and it was decided to keep the number of days to re-appear for the exam unchanged. However, for the purpose of interpretation, it was clarified that 'within 2 weeks of the exam' may be considered as 'within 2 weeks after the last exam' for the Mid Term examination and 'within 10 days after the last exam' for the End Term examination. Minutes of SUGB are placed at **Annexure-J (Pg. 129 to 133)**. The matter is placed before the senate for reporting and ratification.
Item No. 42-4.12	**To ratify the change in name of the course BMT660 Advanced Operations Research to BMT660 Advanced Operations Management offered by DMS.** The matter was discussed in 47th meeting of SPGB under Agenda Item No. 47-2.4. The SPGB deliberated upon the issue and approved the proposal SPGB discussed the issue and decided to approve the desirable modification as proposed by the Department of Management Studies. Minutes of SPGB are placed at **Annexure-H (Pg. 55 to 61)**. The matter is placed before the senate for reporting and ratification.
Item No. 42-4.13	**To ratify the award of MBA degree to the students who secured CGPA < 6.** This is regarding the following students of 2018-20 batch for the award of MBA degree: a. Ms. Khushboo Singh (2018PBM5268) – CGPA 5.80 b. Ms. Renu Lakhwal (2018PBM5275) - CGPA 5.66 c. Ms. Aarti Parewa (2018PBM5278)- CGPA 5.69* (*The CGPA of Ms. Aarti Parewa was 5.41 till 4th semester, she appeared for the 5th semester, and secured CGPA of 5.69) The matter was discussed in 46th SPGB (Item No. 46-2.4) and it was decided that the degree may be awarded to the concerned students as per past precedent. Accordingly, the names of the students were included in the list for award of degree with approval of Chairman Senate. The matter is placed before the Senate for reporting and ratification.

Item No. 42-4.14	**To report the list of Ph.D. students considered by SPGB for termination as per PG RR 5.6/8.3(2)/8.3(5).** The List of Ph.D. students considered by SPGB for termination as per PG RR 5.6/8.3(2)/8.3(5) is placed at **Annexure-Q (Pg.180 to 182)** for reporting and ratification.
Item No. 42-4.15	**To report Ph.D. students permitted for comprehensive exam extension.** The list of Ph.D. students permitted for comprehensive exam extension is placed at **Annexure-R (Pg. 183)** for reporting and ratification.
Item No. 42-4.16	**To report Ph.D. Students permitted for semester extension for January 2021 to June 2021.** The list of Ph.D. Students permitted for semester extension for January 2021 to June 2021 is placed at **Annexure-S (Pg. 184).**
Item No. 42-4.17	**To report the (a) Academic Calendar for Odd Semester (A.Y. 2021-22) for UG, PG and Ph.D. programme and (b) revised Academic Calendar for B.Arch. (IX) semester in view of classes in offline mode (odd semester, A.Y. 2021-22)** Aforementioned Academic Calendars for students are placed at **Annexure-T (Pg. 185 to 190)** for reporting and ratification.
Item No. 42-4.18	**To report the revised fee structure.** The revised fee structure for existing UG, PG & Ph.D. students is placed at **Annexure-U (Pg. 191 to 193)** for reporting and ratification
Item No. 42-4.19	**To report the decision to promote the MBA/MSc Students in next semester without giving examination.** End semester exams of MBA/MSc students were not conducted due to COVID Pandemic. These students were promoted in next semester and it was decided that the examination will held in offline mode as and when situation will become normal. The approval of the Chairman, Senate is placed at **Annexure-V (Pg. 195).** The matter is placed before the senate for reporting and ratification.
Item No. 42-4.20	**To report promotion of Ph.D. students admitted in January 2021 in subsequent semester without considering the CGPA requirement.** As per Rules & Regulations manual for Post Graduate programmes. A student will normally not be allowed to continue in the Ph.D. programme if:- • She/he does not have CGPA of at least 7.0 • She/he accumulates eight or more Xs towards thesis grades. • She/he accumulates six or more Xs towards thesis grades in two consecutive semesters. • She/he secures Xs in all the thesis units registered for in two consecutive semesters. . Also, a student will be allowed to apply for comprehensive/candidacy in the Ph.D. programme, only if she/he is able to secure CGPA of 7.5 or more.

	Earlier, the students were allowed to register in more than one subject, however, owing to pandemic situation the students admitted to Ph.D. programme in January 2021 were allowed to register only in one course i.e. Research Methodology. Due to this all the students who have secured the CGPA below 7.0 in Research Methodology were on the verge of termination from Ph.D. programme. As per the earlier procedure, the students were having fair chances to manage their CGPA as they were allowed to register for more than one subject, and cumulative grade only was considered for the purpose of calculating CGPA/SGPA. However, amid restrictions to register in one subject only, the students were evaluated only on the basis of one course only i.e. Research Methodology and terminating solely on the basis of one subject may be unfair. In view of the above, it was decided to promote the students and permit them to register in subsequent semester, provided they do not receive a FA/FP grade. This is done as a one-time measure only for students registered in 2020-21 (even) semester and shall not be basis for any precedence in future. Approval was accorded by Director/Senate Chairman. **[Annexure- W (Pg. 196)].** The matter is placed before the Senate for reporting and ratification.
Item No. 42-4.21	**To report the names of student representatives in the Senate.** In compliance with first statute of NITs clause 8 (xiv) two students' representatives are required to be invited during discussions of general nature in senate meeting. Earlier, this matter was discussed in 40th Senate meeting (Agenda Item No. 40-3.3) held on 10th November 2020 and two students i.e. Mr. Ayush Mangla (2017UEC1623) and Mr. Yogesh Agarwal (2019PMA5663) were nominated as student representative in Senate. As aforementioned students have graduated in year 2021, (a) Ms. Arshika Tomar (2018UCE1103), overall topper in UG amongst all the branches (CGPA 9.70 upto 3rd year B.Tech) and (b) Mr. Bala Ganesh (2020PCV5316), overall topper in PG amongst all the branches were nominated as student representatives in the senate. Approval of these names was requested to ensure the participation of these members in the forthcoming senate meeting. Approval was accorded by the Director/Chairman. **[Annexure-X (Pg. 197)].** The matter is placed before the Senate for reporting and ratification.
Item No. 42-4.22	**To report and ratify the new elective courses as proposed by the Department of Management Studies and Department of Humanities & Social Sciences.** A proposal was received from DPGC, Management Studies regarding approval of a new elective course "Supply Chain Finance". This course will be an open/program elective and will be taught to MBA students in 3rd& 4th semester. The students of other Department may register it as an open elective course. Similarly, a course namely "Gender and Society" was proposed by the

	Department of Humanities & Social Sciences. The matter was discussed in 47th meeting of SPGB. Minutes of SPGB are placed at **Annexure-H (Pg. 55 to 61)**. SPGB deliberated upon the issue and decided to approve the proposal. The matter is placed before the Senate for reporting and ratification.
Item No. 42-5.0	**Any other items with permission of chair.**

Annexures

Annexure-A

Malaviya National Institute of Technology Jaipur

(An Institute of National Importance under Ministry of Education (Shiksha Mantralaya), Govt. of India)

JLN Marg, Jaipur-302017 (RAJASTHAN) INDIA

MINUTES OF 41st MEETING OF SENATE HELD ON 18TH MARCH 2021

The 41st meeting of Senate was held on 18th March 2021 at 2.00 PM in NKN-1 (Online), Prabha Bhawan of the Institute. The list of members who attended the meeting is enclosed as Annexure -'A' and the list of members who were unable to attend the meeting is enclosed as Annexure-'B'.

At the outset, the Chairman Senate welcomed all the Senate members. The Dean, Academic Affairs welcomed the Director & Chairman Senate and Senate members. Before the formal start of the meeting Dean Academic thanked all the Heads of the departments, DUGC and DPGC Conveners and all the faculty members of the Institute for their support, efforts and recognized their hard work in these exceptional times of COVID 19. The Director & Chairman Senate and Senate members also appreciated the contribution made by the various committees to frame the rules regulations/guidelines and also appreciated the efforts made by the Dean, Academic and her team for smooth function of the academic activities in the challenging circumstances due to COVID-19 pandemic.

The Dean, Academic presented the agenda with the due approval of Chairman Senate. The agenda items were taken one by one, the resolutions of which are as follows:

Item No. 41.1.0	:	**To confirm the minutes of the 40th meeting of the Senate held on November 10th, 2020.** The 40th Senate meeting was held on November 10th, 2020. The draft minutes of the meeting were circulated to all the Senate members and comments received were incorporated. The minutes of the 40th Senate meeting were confirmed.
Item No. 41.2.0	:	**To note the "Action Taken" on the decisions taken in the 39th meeting of the Senate.** The "Action Taken Report" on the 40th meeting of the Senate was noted.
Item No. 41-3-0	:	**Items for consideration.**
Item No. 41-3.1	:	**To consider the recommendations of the Committee constituted to work out the modalities for internship of UG and PG students.** This matter was deliberated at length and some observation were made to be incorporated in the proposal. The observations are as follows:- 1. The upper cap on the number of one year (VII and VIII Semester) internships, which was proposed to be at 10% of total class size by the committee, was decided to change to 20% 2. The students should submit a feedback after completion of the internship. 3. Point No. 3, sub point d(1) is to be removed. 4. As per the proposal, in point (4), *'the student can take up to maximum 12 semesters to complete the UG course'*. However, since the maximum duration for B. Tech. and B. Arch. Course is 8 years and 9 years respectively. Hence, the maximum number of semester to complete the UG Program should be changed to 16 for B.Tech and18 semester for B.Arch students (including 2 semester withdrawal). 5. In case the non-disclosure agreement (NDA) is signed by the student with the Company, the B.Tech/B.Arch Project and Internship shall be treated separately. However, in case the NDA is not signed Project and Internship may be treated same but not necessarily. In addition to above, it was also clarified that the opportunity to avail the institute placements shall be available to the students irrespective of whether they are on Internship or not and in no circumstance the student shall be denied for the institute placement on ground that they were/are on internship. This will be applicable for both UG and PG students. With above mentioned changes the proposal is approved by the Senate.

Item No. 41-3.2	:	**To consider the recommendations of the Committee constituted for revision and preparing the guidelines for UG curriculum in view of National Education Policy 2020.** The Senate appreciated the philosophy and the conceptualization of the revised UG Curriculum in the context of the National Education Policy 2020. However, it was opined that the Ministry of Education is going to send some uniform broad guidelines to be adopted by all NITs, therefore it was advised to defer its implementation. The Senate appreciated the work done by the Committee and it was decided that the same committee shall modify the proposals in line with the National Education Policy and should incorporate any new guidelines as and when issued by the MoE in this regard.
Item No. 41-3.3	:	**To consider the proposal received from Department of Computer Science and Engineering to rename the PG programmes.** The Senate accepted and approved the proposal of Department of Computer Science and Engineering to rename the M.Tech. Programme from academic year 2021-22. The existing and revised names are as follows:

S. No.	Existing name	Rename
1.	Computer Engineering	Computer Science and Engineering (CSE)
2.	Computer Engineering and Information Security	Computer Science and Information Security (CSIS)

Item No. 41-3.4	:	**To consider short credit courses in alignment with the National Education Policy (NEP), 2020.** The matter was deferred and it was also decided to refer this to the committee already working on the implementation of National Education Policy in the institute.
Item No. 41-3.5	:	**To consider the proposal submitted by Chemical Engineering Department for revision of CGPA requirement from 9 to 8 for direct admission to Ph. D. for B. Tech. /B. Arch. qualified students.** The matter was discussed and it was approved to reduce the CGPA to 8, and only those students who are graduates from CFTIs and other institutions whose NIRF ranking is up to 100 shall be considered eligible for admissions under this scheme as recommended by the SPGB. The Senate further clarified that although the proposal was submitted by the Chemical Engineering department, it is approved for all the departments as recommended by the SPGB.
Item No. 41-3.6	:	**To consider the proposal to revise the eligibility criteria for admission in PG and Ph.D. Programmes in the Department of Metallurgical & Materials Engineering, Management Studies and Chemical Engineering.** The proposals submitted by the three departments i.e. Department of Metallurgical and Materials Engineering, Department of Chemical Engineering and Department of Management Studies for admission to M.Tech . MBA program were approved. However, looking into the low enrolments of the students in these departments, the Senate decided to review the enrolments of the students in the next academic year in light of the revised eligibility. The proposal of the Department of Management studies for revised eligibility for Ph.D. admission could not be discussed due to oversight.
Item No. 41-3.7	:	**To consider the proposal of Chemical Engineering and Metallurgical and Materials Engineering to fill vacant seats after the conclusion of CCMT admission process.** The matter was deliberated at length and it was brought to the notice of the Senate, that the admission body for M.Tech programmes i.e. CCMT conducts a special round for admission of students on seats remaining vacant after the regular rounds of admission. Senate was of the opinion that taking admissions through the Institute level or Department level admission process will dilute the quality of students at an Institute of National importance. The agenda was not approved.
Item No. 41-3.8	:	**To consider the proposal received from Department of Humanities and Social Sciences for a Master's program in Public Policy and Development.** Head of the department, Humanities and Social Sciences made a brief presentation highlighting the salient points of the proposal. The Senate recognized and appreciated the efforts and hard work done by the

		department of Humanities & Social Sciences. Further it was mentioned that starting a new Program is a policy decision which is required to be taken for approval to the BOG and MoE. Therefore Senate recommended the proposal to be vetted by a wide ranging committee including external expert members from IIT's, NIT's and other reputed institutes and also the members from the department. Also, the Senate observed that MNIT being an Institute of National Importance, the admission to this program should be through a national level examination equivalent to other PG program entrance examination and not on the basis of the examination conducted at the institute level. Further the Senate authorized the Chairman, Senate to constitute a separate committee to review the proposal submitted by the department of Humanities and Social Sciences.
Item No. 41-3.9	:	**To consider the matter regarding tenure of Chairman SPGB & SUGB.** The Senate was of the view that there should be fixed tenure for Chairman SUGB and Chairman SPGB. It was decided to have the tenure of 2 years for both, the Chairman SPGB and SUGB.
Item No. 41-3.10	:	**To consider the matter regarding issue of compliance certificate stating that Ph.D. degree awarded by the Institute is in accordance with UGC Regulations (Minimum Standards and Procedure for Award of M.Phil./Ph.D. Degrees) Regulations, 2016.** The Senate approved the proposed Performa of compliance certificate.
Item No. 41-3.11	:	**To consider the matter of making Grade Moderation mandatory for courses of UG Program.** The Senate approved the proposal. The Senate directed that the guideline for the constitution of Grade Moderation Committee will be provided by the Dean, Academic.
Item No. 41-3.12	:	**To consider the matter regarding proposed examiner panel for Ph.D. thesis evaluation.** The Senate deliberated upon the proposal for the proposed examiner panel for Ph.D. thesis evaluation. However, to avoid practical difficulties it was decided that point No. 3 and Point No. 6 from the proposed should be omitted. The approved guidelines for constituting the Thesis Evaluation Board by the Ph.D. supervisors are as below: 1. The thesis supervisor(s) shall propose four examiners from within the country and another four examiners from outside the country. 2. The proposed examiners in India shall be from CFTIs or Institute of NIRF ranking within 100. In case of examiners from research organization, it should be either Govt. (State/Central) funded or a well reputed private research organization e.g. Sri Ram Institute for Industrial Research, Delhi. 3. There should be enough evidence that the examiner has research experience in the field of the research work of the Ph.D. thesis. 4. The proposed examiners (non-supervisor) should not have co-authored any paper, with the Ph.D. candidate.
Item No. 41-3.13	:	**To consider the guidelines for addition of joint-supervisor both external/internal in Ph.D. Programme.** The matter was discussed in detail and was approved with an addition that "The NIRF (for Indian Institutes) or QS Ranking (for International Institutes)" will not be considered for the institutes having Academic MOU or academic/research collaboration with MNIT Jaipur.
Item No. 41-3.14	:	**To consider the guidelines for maintaining academic integrity.** The Senate recommended to review the agenda.
Item No. 41-4-0	:	**Items for Ratification.**
Item No. 41-4.1	:	**Minutes of the 46th meeting of SPGB held on 30th January, 2021.** The minutes of 46th meeting of Senate Postgraduate Board were noted and ratified.

Item No. 41-4.2	:	**Minutes of the 32nd meeting of SUGB held on 29th January, 2021.** The minutes of 32nd meeting of Senate Undergraduate Board were noted and ratified.
Item No. 41-4.3	:	**To note the Academic Calendar for B. Tech./B.Arch. II, IV, VI, VIII & X (Only B.Arch.) Even Semester Academic Year 2020-21.** Noted & ratified.
Item No. 41-4.4	:	**To note the Academic Calendar for M. Tech./M.Plan./M.Sc./ MBA/Ph.D. II & IV Even Semester 2020-21 and its revision.** Noted & ratified.
Item No. 41-4.5	:	**To report the total number of students admitted in Undergraduate Programme during the Academic Session 2020-21.** Noted & ratified.
Item No. 40-4.6	:	**To report the admissions to Ph.D. programmes in Even Semester 2020-21.** Noted & ratified.
Item No. 40-4.7	:	**To report the names of Ph.D. candidates/students for termination from the Institute roll in various departments.** Noted & ratified.
Item No. 41-4.8	:	**To report the matter regarding special permission granted for completion of dissertation work to PG students.** Noted & ratified.
Item No. 41-4.9	:	**To report the Research Methodology course common to Engineering and Non-Engineering branches and Research Methodology-II.** Noted & ratified.
Item No. 41-5.0	:	**Any other items with permission of chair.**
Item No. 41-5.1	:	**To consider the proposal for change in CGPA requirement for semester promotion in M. Tech./ M.Plan./MBA.** The Senate approved the recommendation of the committee regarding performance requirement for *'semester promotion'* and for the *'award of degree'* of postgraduate program with minor modification. The minimum CGPA requirement for the *'semester promotion'* and *'award of degrees'* in PG programmes will be as follows:-

	CGPA requirement	
Degree	**Semester promotion**	**Award of Degree**
M. Tech.	5.5	5.5
M. Plan.	5.5	5.5
M. Sc.	5.5	5.5
M. B. A.	5.5	5.5

This approval will be effective for the students to be admitted in the session 2021-22 and onwards. For existing students, the existing norms for the award of degree shall be applicable.

Item No. 41-5.2	:	**To report the updated list of experts as Senate nominee for the faculty selection committees.** Noted & ratified (list of experts as Senate nominee is placed at **Annexure-C**.

Item No. 41-5.3	:	**To report the list of the additional students eligible for award of degree in UG, PG and Ph.D. programmes in the forthcoming Convocation.** Noted & ratified.

The meeting ended with vote of thanks to the Chair.

Registrar & Secretary

Chairman Senate

Annexure-A

The list of Senate members who attended online/offline 41st Senate meeting:

S. No.	Name
1.	Prof. Udaykumar R. Yaragatti
2.	Prof. N. C. Shivaprakash
3.	Prof. Lakshman Nandagiri
4.	Prof. K. R. Niazi
5.	Prof. Urmila Brighu
6.	Prof. Ravindra Nagar
7.	Prof. Lava Bhargava
8.	Prof. A. P. S. Rathore
9.	Prof. Alok Ranjan
10.	Dr. Sanjay Bhatter
11.	Prof. Rajeev Shringi
12.	Dr. Nand Kumar
13.	Prof. S. P. Chaurasia
14.	Prof. Kailash Singh
15.	Dr. Madhu Agarwal
16.	Prof. Raj Kumar Vyas
17.	Prof. Suja George
18.	Prof. Sushant Kumar Jana
19.	Prof. Ragini Gupta
20.	Prof. Jyoti Joshi
21.	Prof. B. L. Swami
22.	Prof. Sanjay Mathur
23.	Prof. A. B. Gupta
24.	Prof. M. K. Shrimali
25.	Prof. Rohit Goyal
26.	Prof. R. C. Gupta
27.	Prof. Sudhir Kumar
28.	Dr. Pilli Emmanuel Shubhankar
29.	Prof. S. D. Bharti
30.	Prof. Vijay Laxmi
31.	Prof. Girdhari Singh
32.	Prof. Rajesh Kumar
33.	Prof. Harpal Tiwari
34.	Prof. Manoj Fozdar
35.	Prof. Rajive Tiwari
36.	Prof. Vijay Janyani
37.	Prof. Ghanshyam Singh
38.	Prof. K. K. Sharma
39.	Prof. Tarush Chandra
40.	Prof. M. M. Sharma
41.	Prof. Mohammad Salim
42.	Prof. R. P. Yadav
43.	Prof. D. Boolchandani
44.	Prof. Vineet Sahula
45.	Prof. Nupur Tondon
46.	Prof. Manju Singh
47.	Dr. Monika Sharma
48.	Prof. M. L. Mittal
49.	Prof. Himanshu Chaudhary
50.	Prof. Jyotirmay Mathur
51.	Prof. Dilip Sharma
52.	Prof. Rakesh Jain
53.	Prof. Nirutpam Rohtagi
54.	Prof. Rajendra Kumar Goyal
55.	Prof. Kanupriya Sachdev
56.	Dr. Rahul Singhal
57.	Dr. Vivakanand
58.	Dr. Kamlendra Awasthi
59.	Dr. Anil Swarnkar
60.	Sh. Ayush Mangla, Student nominee

Annexure-B

The list of members who could not attend 41st Senate meeting:

S. No.	Name
1.	Prof. Hema A. Murthy
2.	Dr. Ajay Kumar Sharma
3.	Prof. G. S. Dangayach
4.	Prof. Gunwant Sharma
5.	Prof. Mahender Choudhary
6.	Prof. Y.P. Mathur
7.	Prof. Alok Gupta
8.	Prof. G. D. Agarwal
9.	Prof. Upendra Pandel
10.	Prof. A. K. Vyas
11.	Prof. Ajay Singh Jethoo
12.	Prof. Mahesh Kumar Jat
13.	Prof. Vibhuti Singh Shekhawat
14.	Prof. S. K. Tiwari
15.	Prof. Vikas Gupta
16.	Prof. T. C. Gupta
17.	Sh. Yogesh Agarwal, Student nominee

Annexures

ACTION TAKEN REPORT

S. No	Item No.	Particulars	Decision	Action Taken
1.	41-1-0	To confirm the minutes of the 40th meeting of the Senate held on November 10th, 2020.	The 40th Senate meeting was held on November 10th, 2020. The draft minutes of the meeting were circulated to all the Senate members and comments received were incorporated. The minutes of the 40th Senate meeting were confirmed.	Noted
2.	41-2-0	To note the "Action Taken" on the decisions taken in the 39th meeting of the Senate.	The "Action Taken Report" on the 40th meeting of the Senate was noted.	Noted
3.	41-3.0	Items for consideration		
4.	41-3.1	To consider the recommendations of the Committee constituted to work out the modalities for internship of UG and PG students.	This matter was deliberated at length and some observation were made to be incorporated in the proposal. The observations are as follows:- 1. The upper cap on the number of one year (VII and VIII Semester) internships, which was proposed to be at 10% of total class size by the committee, was decided to change to 20% 2. The students should submit a feedback after completion of the internship. 3. Point No. 3, sub point d (1) is to be removed. 4. As per the proposal, in point (4), *'the student can take up to maximum 12 semesters to complete the UG course'*. However, since the maximum duration for B. Tech. and B. Arch. Course is 8 years and 9 years respectively. Hence, the maximum number of semester to complete the UG Program should be changed to 16 for B.Tech and18 semester for B.Arch. students (including 2 semester withdrawal). 5. In case the non-disclosure agreement (NDA) is signed by the student with the Company, the B.Tech/B.Arch. Project and Internship shall be treated separately. However, in case the NDA is not signed Project and Internship may be treated same but not necessarily.	The observations were incorporated and revised guidelines circulated

<table>
<tr><td></td><td></td><td></td><td>In addition to above, it was also clarified that the opportunity to avail the institute placements shall be available to the students irrespective of whether they are on Internship or not and in no circumstance the student shall be denied for the institute placement on ground that they were/are on internship. This will be applicable for both UG and PG students.

With above mentioned changes the proposal is approved by the Senate.</td><td></td></tr>
<tr><td>5.</td><td>41-3.2</td><td>To consider the recommendations of the Committee constituted for revision and preparing the guidelines for UG curriculum in view of National Education Policy 2020.</td><td>The Senate appreciated the philosophy and the conceptualization of the revised UG Curriculum in the context of the National Education Policy 2020. However, it was opined that the Ministry of Education is going to send some uniform broad guidelines to be adopted by all NITs, therefore it was advised to defer its implementation.

The Senate appreciated the work done by the Committee and it was decided that the same committee shall modify the proposals in line with the National Education Policy and should incorporate any new guidelines as and when issued by the MoE in this regard.</td><td>Communication from MOE awaited</td></tr>
<tr><td>6.</td><td>41-3.3</td><td>To consider the proposal received from Department of Computer Science and Engineering to rename the PG programmes.</td><td>The Senate accepted and approved the proposal of Department of Computer Science and Engineering to rename the M.Tech. Programme from academic year 2021-22. The existing and revised names are as follows:

<table><tr><th>S. No.</th><th>Existing name</th><th>Rename</th></tr><tr><td>1.</td><td>Computer Engineering</td><td>Computer Science and Engineering (CSE)</td></tr><tr><td>2.</td><td>Computer Engineering and Information Security</td><td>Computer Science and Information Security (CSIS)</td></tr></table></td><td>Implemented Order No. F4/S-V-1/20-21-Acad-Typ (41-Senate)/196 dated 21-04-2021</td></tr>
<tr><td>7.</td><td>41-3.4</td><td>To consider short credit courses in alignment with the National Education Policy (NEP), 2020.</td><td>The matter was deferred and it was also decided to refer this to the committee already working on the implementation of National Education Policy in the institute.</td><td>Noted</td></tr>
<tr><td>8.</td><td>41-3.5</td><td>To consider the proposal submitted by Chemical Engineering Department for</td><td>The matter was discussed and it was approved to reduce the CGPA to 8, and only</td><td>Implemented Order No. F4/S-</td></tr>
</table>

		revision of CGPA requirement from 9 to 8 for direct admission to Ph. D. for B. Tech. /B. Arch. qualified students.	those students who are graduates from CFTIs and other institutions whose NIRF ranking is up to 100 shall be considered eligible for admissions under this scheme as recommended by the SPGB. The Senate further clarified that although the proposal was submitted by the Chemical Engineering department, it is approved for all the departments as recommended by the SPGB.	V-1/20-21-Acad-Typ (41-Senate)/189 dated 20-04-2021
9.	41-3.6	To consider the proposal to revise the eligibility criteria for admission in PG and Ph.D. Programmes in the Department of Metallurgical & Materials Engineering, Management Studies and Chemical Engineering.	The proposals submitted by the three departments i.e. Department of Metallurgical and Materials Engineering, Department of Chemical Engineering and Department of Management Studies for admission to M.Tech and MBA program were approved. However, looking into the low enrolments of the students in these departments, the Senate decided to review the enrolments of the students in the next academic year in light of the revised eligibility. The proposal of the Department of Management studies for revised eligibility for Ph.D. admission could not be discussed due to oversight.	Implemented (placed under Item No. 42-3.3)
10.	41-3.7	To consider the proposal of Chemical Engineering and Metallurgical and Materials Engineering to fill vacant seats after the conclusion of CCMT admission process.	The matter was deliberated at length and it was brought to the notice of the Senate, that the admission body for M.Tech programmes i.e. CCMT conducts a special round for admission of students on seats remaining vacant after the regular rounds of admission. Senate was of the opinion that taking admissions through the Institute level or Department level admission process will dilute the quality of students at an Institute of National importance. The agenda was not approved.	Noted
11.	41-3.8	To consider the proposal received from Department of Humanities and Social Sciences for a Master's program in Public Policy and Development.	Head of the department, Humanities and Social Sciences made a brief presentation highlighting the salient points of the proposal. The Senate recognized and appreciated the efforts and hard work done by the department of Humanities & Social Sciences. Further it was mentioned that starting a new Program is a policy decision which is required to be taken for approval to the BOG and MoE. Therefore Senate recommended the proposal to be vetted by a wide ranging committee including external	Committee constituted vide Order No. F4/S-V-1/20-21-Acad-Typ (41-Senate)/154 dated 09-04-2021 Recommendation of the committee placed under Item No. 42-3.1)

			expert members from IIT's, NIT's and other reputed institutes and also the members from the department. Also, the Senate observed that MNIT being an Institute of National Importance, the admission to this program should be through a national level examination equivalent to other PG program entrance examination and not on the basis of the examination conducted at the institute level. Further the Senate authorized the Chairman, Senate to constitute a separate committee to review the proposal submitted by the department of Humanities and Social Sciences.	
12.	41-3.9	To consider the matter regarding tenure of Chairman SPGB & SUGB.	The Senate was of the view that there should be fixed tenure for Chairman SUGB and Chairman SPGB. It was decided to have the tenure of 2 years for both, the Chairman SPGB and SUGB.	Implemented Order No. F4/S-V-1/20-21-Acad-Typ (41-Senate)/190 dated 20-04-2021
13.	41-3.10	To consider the matter regarding issue of compliance certificate stating that Ph.D. degree awarded by the Institute is in accordance with UGC Regulations (Minimum Standards and Procedure for Award of M.Phil./Ph.D. Degrees) Regulations, 2016.	The Senate approved the proposed Performa of compliance certificate.	Implemented Order No. F4/S-V-1/20-21-Acad-Typ (41-Senate)/188 dated 20-04-2021
14.	41-3.11	To consider the matter of making Grade Moderation mandatory for courses of UG Program.	The Senate approved the proposal. The Senate directed that the guideline for the constitution of Grade Moderation Committee will be provided by the Dean, Academic.	Implemented
15.	41.3.12	To consider the matter regarding proposed examiner panel for Ph.D. thesis evaluation.	The Senate deliberated upon the proposal for the proposed examiner panel for Ph.D. thesis evaluation. However, to avoid practical difficulties it was decided that point No. 3 and Point No. 6 from the proposal should be omitted. The approved guidelines for constituting the Thesis Evaluation Board by the Ph.D. supervisors are as below: 1. The thesis supervisor(s) shall propose four examiners from within the country and another four examiners from outside the country. 2. The proposed examiners in India shall be from CFTIs or Institute of NIRF ranking within 100. In case of examiners from research organization,	Implemented Order No. F4/S-V-1/20-21-Acad-Typ (41-Senate)/191 dated 20-04-2021

			it should be either Govt. (State/Central) funded or a well reputed private research organization e.g. Sri Ram Institute for Industrial Research, Delhi. 3. There should be enough evidence that the examiner has research experience in the field of the research work of the Ph.D. thesis. 4. The proposed examiners (non-supervisor) should not have co-authored any paper, with the Ph.D. candidate.	
6.	41-3.13	To consider the guidelines for addition of joint-supervisor both external/ internal in Ph.D. Programme.	The matter was discussed in detail and was approved with an addition that "The NIRF (for Indian Institutes) or QS Ranking (for International Institutes)" will not be considered for the institutes having Academic MOU or academic/research collaboration with MNIT Jaipur.	Implemented Order No. F4/S-V-1/20-21-Acad-Typ (41-Senate)/192 dated 20-04-2021
17.	41-3.14	To consider the guidelines for maintaining academic integrity.	The Senate recommended to review the agenda.	Agenda placed under Item No. 42-3.2
18.	41-4.0	Items for Ratification.		
19.	41-4.1	Minutes of the 46th meeting of SPGB held on 30th January, 2021.	The minutes of 46th meeting of Senate Postgraduate Board were noted and ratified.	Noted
20.	41-4.2	Minutes of the 32nd meeting of SUGB held on 29th January, 2021.	The minutes of 32nd meeting of Senate Undergraduate Board were noted and ratified.	Noted
21.	41-4.3	To note the Academic Calendar for B. Tech./ B.Arch. II, IV, VI, VIII & X (Only B.Arch.) Even Semester Academic Year 2020-21.	Noted & ratified.	Noted
22.	41-4.4	To note the Academic Calendar for M. Tech./M.Plan./M.Sc./ MBA/Ph.D. II & IV Even Semester 2020-21 and its revision.	Noted & ratified.	Noted
23.	41-4.5	To report the total number of students admitted in Undergraduate Programme during the Academic Session 2020-21.	Noted & ratified.	Noted
24.	40-4.6	To report the admissions to Ph.D. programmes in Even Semester 2020-21.	Noted & ratified.	Noted
25.	40-4.7	To report the names of Ph.D. candidates/students for termination	Noted & ratified.	Noted

<table>
<tr><td></td><td></td><td>from the Institute roll in various departments.</td><td></td><td></td></tr>
<tr><td>26.</td><td>40-4.8</td><td>To report the matter regarding special permission granted for completion of dissertation work to PG students.</td><td>Noted & ratified.</td><td>Noted</td></tr>
<tr><td>27.</td><td>40-4.9</td><td>To report the Research Methodology course common to Engineering and Non-Engineering branches and Research Methodology-II.</td><td>Noted & ratified.</td><td>Noted</td></tr>
<tr><td>28.</td><td>40-5.0</td><td>Any other items with permission of chair.</td><td></td><td>Noted</td></tr>
<tr><td>29.</td><td>40-5.1</td><td>To consider the proposal for change in CGPA requirement for semester promotion in M. Tech./ M.Plan./MBA.</td><td>The Senate approved the recommendation of the committee regarding performance requirement for 'semester promotion' and for the 'award of degree' of postgraduate program with minor modification.
The minimum CGPA requirement for the 'semester promotion' and 'award of degrees' in PG programmes will be as follows:-
<table>
<tr><th></th><th colspan="2">CGPA requirement</th></tr>
<tr><th>Degree</th><th>Semester promotion</th><th>Award of Degree</th></tr>
<tr><td>M. Tech.</td><td>5.5</td><td>5.5</td></tr>
<tr><td>M. Plan.</td><td>5.5</td><td>5.5</td></tr>
<tr><td>M. Sc.</td><td>5.5</td><td>5.5</td></tr>
<tr><td>M. B. A.</td><td>5.5</td><td>5.5</td></tr>
</table>
This approval will be effective for the students to be admitted in the session 2021-22 and onwards. For existing students, the existing norms for the award of degree shall be applicable.</td><td>Noted and it will be implemented for the students to be admitted in the session2021-22 and onwards. Order No. F4/S-V-1/20-21-Acad-Typ (41-Senate)/193 dated 20-04-2021</td></tr>
<tr><td>30.</td><td>40-5.2</td><td>To report the updated list of experts as Senate nominee for the faculty selection committees.</td><td>The Senate approved the updated panel of experts for the faculty selection committees.</td><td>Noted</td></tr>
<tr><td>31.</td><td>40-5.3</td><td>To report the list of the additional students eligible for award of degree in UG, PG and Ph.D. programmes in the forthcoming Convocation.</td><td>Noted & ratified.</td><td>Noted</td></tr>
</table>

Annexures

Malaviya National Institute of Technology Jaipur

Committee Constituted to Review Masters Programme on Public Policy and Development

(Ref: office order *FNoF4/ S-V-1/20-21-Acad-type (41-Senate) /154 Dated April 9,2021)*

Department of Humanities and Social Sciences

Minutes of Meeting (First Meeting)

April 19, 2021 (Monday)

A meeting to review Master's in Public Policy and Development by Department of Humanities and Social Sciences (DHSS), MNIT Jaipur was held on **April 19, 2021** at 11am in online mode. Following members were present.

1.	Prof Ramkalyan Ayyagari,	Dean Academic, Prof, Dept of Instrumentation & Control Engg, NIT Tiruchirappalli	Member
2.	Prof Saroj Kumar Patel	Dean Academic, Dept of Mechanical Engg, NIT Rourkela	Member
3.	Prof NC Shivaprakash	Member Senate MNIT Jaipur, Professor, Dept of Instrumentation and Applied Physics, IISC Banglore	Member
4.	Prof Muralidharan VR	Prof (Eco), HSS, Prof, IIT Madras	Member
5.	Prof Rakesh Jain	Chairman, SPGB, Prof, Dept of Mechanical Engg, MNIT Jaipur.	Member
6.	Prof. Manju Singh	Professor (Eco) and Head,HSS, MNIT Jaipur	Convener
7.	Dr Nihar Ranjan Mishra	Associate Dean and Dept of HSS, NIT Rourkela	Special invitee by Dean(Academic), NIT Rourkela

At the outset, Prof Manju Singh, Convener of the committee welcomed all present to the on line meeting and conveyed gratitude on behalf of MNIT Jaipur for accepting the invitation for the assignment and spare time for this intellectual exercise.

Main Agenda:

To review the proposed Programme and accordingly recommend on following aspects:

- Scope and relevance
- Proposed Programme design
- Proposed Admission process/ eligibility
- Appropriate intake
- Proposed Fee structure

Prof. Manju Singh presented an over view of the complete Programme that Dept of Humanities and Social Science (MNIT Jaipur) proposed to introduce from **next academic session** after following all procedural guidelines and approval from the competent authority.

After due deliberations, following points were highlighted by all the committee members:

- **Scope and relevance**
  1. All the members appreciated the pioneering initiative of DHSS for proposing Master Programme in Public Policy and Development (MPD). MPD is aligned with NEP 2020.The members commented that this programme, if implemented as proposed is going to be a game changer for the Institute.

Manju singh
a.Ramkalyan

2. Similar attempts in the past in other CFTIs (IIT Madras, Chennai, NIT Rourkela, NIT Tiruchi) are highly successful and in demand; popularity of these programmes is on increase.
3. It is agreed that the emphasis on multidisciplinary system, flexibility of choices and experience based design would **connect** new knowledge with a deeper understanding of the real-life experiences. The courses from the proposed programme will also provide additional opportunities in the basket of Open electives for other degree programmes at MNIT.
4. One valuable suggestion was to open some of the courses of common interest from the MPD to the students of other Programme being offered at MNIT. Another possible suggestion was to explore online platform such as MOOC and offer a series of popular courses online to generate revenue.
5. A suggestion was made to rely on the existing available expertise in the department and institute. HoD (HSS) assured members that this aspect has already been considered while designing the course structure and curriculum. As the programme grows in demand and with more options in terms of subjects, in next 3-5 years period, faculty strength may be complemented with visiting faculty and domain experts upon assessing the success of the programme, need and feasibility.
6. On enquiry about commitment from the faculty members who would be engaged in the various courses for smooth conduction of the Programme, HoD (HSS) assured the committee that department and all faculty members are committed to the initiation of the programme as exhibited by participation, enthusiasm and hard work of all involved in designing the curriculum.

- **Proposed Programme design**

7. HoD(HSS) informed all committee members that the programme schemes and credit distribution has been carefully crafted for enhancing impactful knowledge skills and has been endorsed by the subject and industry experts invited during the entire process of curriculum development exercise (including CDW).
8. Committee viewed total 84 credits on a little higher side, suggested to relook as per the guidelines. DPGC (HSS) has already considered MNIT guidelines for other postgraduate programme while designing the scheme, but it was agreed upon to follow guidelines as and when these are changed.

- **Proposed Admission process/ eligibility**

9. All the members were in agreement to take admission based on an entrance exam conducted at National level to attract the most suitable candidates in the programme. HoD (HSS) assured that practices as followed in other IITs/NITs shall be followed as of now and, in future, MNIT shall participate in admission process at National level (analogous to CCMT) whenever is initiated.
10. It is also mentioned that placement prospects should also be explored and ensured for success of the Programme. HoD (HSS) assured that this aspect shall be taken into consideration and relevant information shall be added to the brochure for the proposed programme.

Manjusingh
a Ramakalyan

- **Appropriate intake**
  11. Regarding proposed intake in the MPD, all members unanimously approved that intake should be 30 so that sub groups must have sufficient no of students to make a class viable and sustainable.
- **Proposed Fee structure**
  12. Members suggested the fee structure should be as per the NIT guidelines and may be at par with other postgraduate courses being offered by MNIT.
  13. One suggestion was received regarding floating Programme Fellowship like some prestigious institutions have introduced to attract best talent. Once the course is initiated, DHSS shall strive to bring such fellowships to the programme.

All the committee members agreed to have one more on line meeting for further deliberation on admission procedures, eligibility, annual courses intake, fee structure, faculty hiring, placement prospects and curriculum verticals on **April 26, 2021 (Monday) at 11 AM**.

The meeting concluded with a vote of thanks.

Prof Ramkalyan Ayyagari,
Dean Academic,
Prof, Dept of Instrumentation & Control Engg,
NIT Tiruchirappalli
Member

Prof Saroj Kumar Patel, Dean Academic, Dept of Mechanical Engg, NIT Rourkela
Member

Prof Shivaprakash
Member Senate MNIT Jaipur,
Professor, Dept of Instrumentation and Applied Physics, IISC Banglore
Member

Prof Muralidharan VR
Prof (Eco), HSS, Prof, IIT Madras
Member

Prof Rakesh Jain
Chairman, SPGB, Prof, Dept of Mechanical Engg, MNIT Jaipur.
Member

Dr Nihar Ranjan Mishra
Associate Dean and Dept of HSS, special invitee NIT Rourkela NIT Rourkela
Invited Member

Prof. Manju Singh, Professor (Eco) and Head, HSS, MNIT Jaipur
Convener of the Committee

Malaviya National Institute of Technology Jaipur

Committee Constituted to Review Masters Programme on Public Policy and Development

(Ref: office order *FNoF4/ S-V-1/20-21-Acad-type (41-Senate) /154 Dated April 9,2021)*

Department of Humanities and Social Sciences

Minutes of Meeting (Second Meeting)

April 26, 2021 (Monday)

The **Second meeting** to review **Master's in Public Policy and Development** by Department of Humanities and Social Sciences (DHSS), MNIT Jaipur was held on April 26, 2021 at 11am in online mode. Following members were present.

1. Prof Ramkalyan Ayyagari,	Dean Academic, Prof, Dept of Instrumentation & Control Engg, NIT Tiruchirappalli	Member
2. Prof NC Shivaprakash	Member Senate MNIT Jaipur, Professor, Dept of Instrumentation and Applied Physics, IISC Banglore	Member
3. Prof Muralidharan VR	Prof (Eco), HSS, Prof, IIT Madras	Member
4. Prof Rakesh Jain	Chairman, SPGB, Prof, Dept of Mechanical Engg, MNIT Jaipur.	Member
5. Dr Nihar Ranjan Mishra	Associate Dean and Dept of HSS, NIT Rourkela	Represented Dean(Academic) and special invitee NIT Rourkela
6. Prof. Manju Singh	Professor (Eco) and Head, HSS, MNIT Jaipur	Convener

Prof Saroj Kumar Patel, Dean Academic, NIT Rourkela was granted leave of absence because of other urgent commitment.

Second review meeting started with HoD (DHSS) presenting a quick report about Minutes of last meeting held on April 19, 2021. Agenda of the meeting was to address all the points raised in the first meeting.

- Committee members appreciated the efforts invested in developing of the programme by the whole team including vast net of experts. Members agreed that high level of enthusiasm and commitment reflected would certainly take this programme to international standard.
- It is narrated that all structure and design of the Programme has gone through several iterations and elaborations since long and have already established its relevance.
- Committee was in general agreement that programme may be started, upon procedural approvals from statutory bodies.
- Committee was of the opinion that in view of NEP 2020, field Practices as laid out in the Programme should be well planned for impactful knowledge transfer.

Manju singh
a.Ramakalyan

Deliberations were made on all the issues identified in the previous meeting and recommendations are as follows.

- **Admission Procedures**
  - Admission procedure shall be similar to as followed in other IITs/NITs as of now.
  - One of the essential eligibility criteria would be to qualify the **National level test** conducted by MNIT as per existing guidelines
  - The short-listing of applications for the purpose of admission will be done by the DPGC of the HSS.
  - Thereafter, the candidate will be assessed for admission through **on line written test and interview** by DSC of the department

- **Eligibility**
  - The applicant must have a Bachelor's degree in any discipline
  - A minimum of 6.5 CGPA on the 10 point scale (60% marks, only where CGPA is not awarded) with a relaxation for SC/ST implying minimum of 6.0 on the 10 point scale (55% marks, only where CGPA is not awarded)
  - Reservation policy as prescribed by Government of India/MHRD from time to time shall be applicable.
  - Eligibility criteria shall be as per MNIT PG regulations

- **Annual Courses Intake**
  - Total seats 30
  - With provision for reservations as per Govt. of India norms
  - Some of the courses of common interest from the MPD may be floated to the students of other Programme being offered at MNIT

- **Fee Structure**
  - The fee structure proposed to be as per the NIT guidelines and at par with other postgraduate courses being offered by MNIT.

- **Faculty Hiring**
  - No faculty hiring is required right now. For the current year, the curricular structure and associated teaching workload is designed as per existing faculty expertise and faculty strength respectively.
  - Specializations would be offered subject to a minimum number of students opting for the same.

- **Placement Prospects**
  - Programme targets upcoming professional domains that will provide wide-ranging career opportunities to students. Future career prospective involve areas such as (but not limited) Govt organisation, Academia, Consultancy Assignments, Development Sectors, Think Tanks and Social enterprises, etc.

Manjit singh
a.Ramakalyan

- Assignments would be mainly related to Governance and Operation, Policy Analyst, Research, Programme monitoring, Evaluation and advocacy at national and International level as well.

- **Curriculum Verticals**
  - Domain wise verticals were shared during the presentation as were considered throughout the process of crafting the programme. Suggestions received to make verticals field wise as well in future as per the demand.

At the final note, all the committee members **recommended to go ahead for the Masters Programme in Public Policy and Development** proposed by Department of Humanities and Social Sciences subject to approval from the statutory bodies. All members wholeheartedly conveyed wishes to introduce and boost this programme as a new experimental mode for next 5-6 years. They expressed feeling of pride to be a part of the committee for developing the Programme.

The meeting concluded with a vote of thanks.

a.Ramakalyan

Prof Ramkalyan Ayyagari,
Dean Academic,
Prof, Dept of Instrumentation & Control Engg,
NIT Tiruchirappalli
Member

Prof Shivaprakash
Member Senate MNIT Jaipur,
Professor, Dept of Instrumentation and Applied Physics, IISC Banglore
Member

Prof Muralidharan VR
Prof (Eco), HSS, Prof, IIT Madras
Member

Prof Rakesh Jain
Chairman, SPGB, Prof, Dept of Mechanical Engg, MNIT Jaipur.
Member

Dr Nihar Ranjan Mishra
Associate Dean and Dept of HSS, special invitee NIT Rourkela NIT Rourkela
Invited Member

Manju singh

Prof. Manju Singh, Professor (Eco) and Head, HSS, MNIT Jaipur
Convener of the Committee

Malaviya National Institute of Technology Jaipur

Committee Constituted to Review Masters Programme on Public Policy and Development

(Ref: office order *FNoF4/ S-V-1/20-21-Acad-type (41-Senate) /154 Dated April 9,2021)*

Department of Humanities and Social Sciences

Minutes of Meeting (Third Meeting)

May 5, 2021 (Wednesday)

The Third **meeting** to review **Master's in Public Policy and Development** by Department of Humanities and Social Sciences (DHSS), MNIT Jaipur was held on May 5, 2021 at 11.45 am in online mode. Following members were present.

1. Prof Ramkalyan Ayyagari,	Dean Academic, Prof, Dept of Instrumentation & Control Engg, NIT Tiruchirappalli	Member
2. Prof Saroj Kumar Patel	Dean Academic, Dept of Mechanical Engg, NIT Rourkela	Member
3. Prof NC Shivaprakash	Member Senate MNIT Jaipur, Professor, Dept of Instrumentation and Applied Physics, IISC Banglore	Member
4. Prof Rakesh Jain	Chairman, SPGB, Prof, Dept of Mechanical Engg, MNIT Jaipur.	Member
5. Dr Nihar RanjanMishra	Associate Dean and Dept of HSS, NIT Rourkela	Represented Dean(Academic) and special invitee NIT Rourkela
6. Prof. Manju Singh	Professor (Eco) and Head, HSS, MNIT Jaipur	Convener

Prof Muralidharan V , Prof (Eco), HSS, Prof, IIT Madras was granted leave of absence because of other urgent commitment.

Third review meeting started with HoD (DHSS) presenting the observation shared by Dean, Academics, MNIT Jaipur and thanking all the members for sparing time for the meeting. Agenda of this meeting was to address all the points raised by the Dean, Academic, MNIT Jaipur.

- Committee members appreciated the efforts invested in developing of the programme by the whole team including vast net of experts. Members agreed that high level of enthusiasm and commitment reflected would certainly take this programme to international standard.
- It is narrated that all structure and design of the Programme has gone through several iterations and elaborations since long and have already established its relevance.
- Committee was in general agreement to recommend the programme subject to approval of statutory bodies.
- Committee was of the opinion that in view of NEP 2020, field Practices as laid out in the Programme should be well planned for impactful knowledge transfer.

Manju singh.

a.Ramakalyan

Deliberations were made on all the issues with special focus on the observations shared by Dean, Academics, MNIT Jaipur and recommendations are as follows.

- **Admission Procedures**
  - Admission procedure shall be similar to as followed in other IITs/NITs as of now.
  - One of the essential eligibility criteria would be to qualify the **National level test conducted by MNIT as per existing guidelines**
  - The short-listing of applications for the purpose of admission will be done by the DPGC of the HSS.
  - Thereafter, the candidate will be assessed for admission through **written test and interview** by DSC of the department.
  - Assessment will test the logical aptitude, numerical and data aptitude/ Analytical skill, writing, verbal and interpersonal skills and policy and development awareness skills of the applicants.
- **Eligibility**
  - The applicant must have a Bachelor's degree in Humanities and Social Sciences / Management/ Commerce/ Engineering.
  - A minimum of 6.5 CGPA on the 10 point scale (60% marks, only where CGPA is not awarded) with a relaxation for SC/ST implying minimum of 6.0 on the 10 point scale (55% marks, only where CGPA is not awarded)
  - Reservation policy as prescribed by Government of India/MHRD from time to time shall be applicable.
  - Eligibility criteria shall be as per MNIT PG regulations
- **Annual Courses Intake**
  - Total seats 30
  - With provision for reservations as per Govt. of India norms
  - Some of the courses of common interest from the MPD may be floated to the students of other Programme being offered at MNIT
- **Fee Structure**
  - The fee structure proposed to be as per the NIT guidelines and at par with other postgraduate courses being offered by MNIT.
- **Faculty Hiring**
  - Present faculty strength is sufficient. For the current year, the curricular structure and associated teaching workload is designed as per existing faculty expertise and faculty strength respectively.
  - Specializations would be offered subject to a minimum number of students opting for the same.
- **Placement Prospects**
  - Programme targets upcoming professional domains that will provide wide-ranging career opportunities to students. Future career prospective involve areas such as (but not limited) Govt organisation, Academia, Consultancy Assignments, Development Sectors, Think Tanks and Social enterprises, etc.

Manju singh
a. Ramakalyan

- Assignments would be mainly related to Governance and Operation, Policy Analyst, Research, Programme monitoring, Evaluation and advocacy at national and International level as well.

- **Curriculum Verticals**
  - Domain wise verticals were shared during the presentation as were considered throughout the process of crafting the programme. Suggestions received to make verticals field wise as well in future as per the demand.

At the final note, all the committee members **recommended to go ahead for the Masters Programme in Public Policy and Development** proposed by Department of Humanities and Social Sciences subject to approval from the statutory bodies. All members wholeheartedly conveyed wishes to introduce and boost this programme as a new experimental mode for next 5-6 years. They expressed feeling of pride to be a part of the committee for developing the Programme.

The meeting concluded with a vote of thanks.

a.Ramakalyan

Prof Ramkalyan Ayyagari,
Dean Academic,
Prof, Dept of Instrumentation & Control Engg,
NIT Tiruchirappalli
Member

Prof Saroj Kumar Patel, Dean
Academic, Dept of Mechanical Engg, NIT Rourkela
Member

Prof Shivaprakash
Member Senate MNIT Jaipur,
Professor, Dept of Instrumentation and Applied Physics, IISC Banglore
Member

Prof Rakesh Jain
Chairman, SPGB, Prof, Dept of Mechanical Engg, MNIT Jaipur.
Member

Dr Nihar Ranjan Mishra
Associate Dean and Dept of HSS, special invitee NIT Rourkela NIT Rourkela
Invited Member

Prof. Manju Singh, Professor (Eco) and Head, HSS, MNIT Jaipur
Convener of the Committee

22

Anti-Plagiarism Policy

Objectives

1. To create awareness about responsible conduct of research, thesis, dissertation, promotion of academic integrity and prevention of misconduct including plagiarism in academic writing among student, faculty, researcher and staff.
2. To establish institutional mechanism through education and training to facilitate responsible conduct of research, thesis, dissertation, promotion of academic integrity and deterrence from plagiarism.
3. To develop systems to detect plagiarism and to set up mechanisms to prevent plagiarism.

Curbing Plagiarism

1. The Institute has purchased a licensed for the plagiarism detection software tool turnitin™.
2. Special training sessions is organized regularly by the academic sections to use the software tool and analyze the results.
3. A report from plagiarism detection software (Turnitin™) shall be submitted along with the thesis and dissertation.
4. Every student submitting a thesis, dissertation, or any other such documents to the institute shall submit anundertaking indicating that the document has been prepared by him or her and that the document is his/heroriginal work and free of any plagiarism.
5. The undertaking shall include the fact that the document has been duly checked through a Plagiarism detectiontool approved by the institute.

Similarity checks rules

1. The similarity checks for plagiarism shall exclude the following:
    i. All quoted work reproduced with all necessary permission and/or attribution.
    ii. All references, bibliography, table of content, preface and acknowledgements.
    iii. All generic terms, laws, standard symbols and standards equations.

2. **Similarity word count**: Maximum 5 word count is allowed for UG students and 3 words count is allowed for PG and PhD students.

Levels of Plagiarism:

Maximum 15% similarity index is allowed for the thesis, dissertation and reports submitted by the UG, PG and PhD students.

Procedure recommended for probing into allegations of Plagiarism in the Institute:

1. Get a formal approval of the policy from the Senate to curb plagiarism,

2. The Director may constitute a permanent standing Committee (Institutional Academic Integrity Panel) to which all complaints may be submitted. The Committee may also have the Head of the concerned Department as a Special Invitee.

3. The process starts by a complaint from the aggrieved person who in writing informs the authorities about the incident.

4. The Committee may call upon written statements from the person(s) involved and adduce evidence. Notice has to be issued to both the parties to record their versions and statements.

5. Based on the enquiry, the Committee may recommend suitable action, which may be submitted for approval by the Director.

6. The Director, with the consent of the BOG may order enforcement of the actions suggested by the committee.

Annexure I

The following modifications/ corrections are suggested:

1. Point iv under **similarity checks for exclusion from plagiarism** may be changed to "***Maximum 8 word count is allowed for both UG as well as PG and PhD students.***"

2. Point no. 8 **Levels of Plagiarism**: ***Maximum 15% similarity index is allowed for the thesis, dissertation and reports submitted by the UG, PG and PhD students*** may be modified as:

   Levels of Plagiarism: ***Maximum 20% similarity index is allowed for the thesis, dissertation and reports submitted by the UG students and 15% is allowed for PG and PhD students. However, if the similarity index from all the individual sources is < 1% (for a PG or Ph.D. student), then a similarity index upto 20% may be allowed.***

Format for Submission of Agenda for the meeting of SPGB

1	Meeting	**SPGB**
2	Department	**Centre for Energy and Environment**
3	Agenda Item No	**2021/SPGB /CEE/1** **2021/SPGB /CEE/2**
4	Agenda	**2021/SPGB /CEE/1:** To amend minimum eligibility criteria for PhD admission at CEE **2021/SPGB /CEE/2:** To amend minimum eligibility criteria for M.Tech admission at CEE
5	Background of the Agenda	**2021/SPGB /CEE/1:** Currently minimum eligibility criteria for PhD admission at CEE is ***"B.Tech./B.Arch. With post-graduation in relevant discipline"***. CEE offers an interdisciplinary M.Tech in Renewable Energy with minimum eligibility criteria as listed below including M.Sc in Physics.

17.	**Centre for Energy & Environment**	**Renewable Energy**	B.E./B.Tech. in Architectural Engg., Architecture, Automobile, Biochemical, Biotech., Biotechnology, Chemical, Civil, Civil Environmental, Control & Electrical, Electrical & Electronics, Electrical & Instrumentation, Electrical, Electrical Engg. (Power), Electrical Power, Electro-chemical, Energy, Engineering Physics, Environmental, Industrial Manufacturing, Industrial & Production, Industrial, Industrial Engg. & Management, Industrial Metallurgy, Manufacturing Engg./Tech., Material Science &Engg./Tech., Mechanical Engg., Metallurgical & Materials, Metallurgical & Materials Tech., Metallurgical, Metallurgical Engg. & Material Science, Metallurgy, Power Electronics, Production & Industrial, Production, Production Engg. & Management, Renewable Energy, Chemical & Polymer, Civil Engg. & Planning, Electrical Engg. & Industrial Control, Electrical & Instrumentation, Electrical & Power, Electrical Science &Engg., Environmental Science &Engg./Tech., Material Science & Metallurgical, Mechanical & Automation, Mechanical Engg, Automobile, Power Control & Drives, Power, Solar & Alternate Energy, M. Sc in Applied Physics, Physics, Engineering Physics, Engineering Physics & Instrumentation

Many Indian reputed institutes such as IITs, NITs (MNITJ-Materials Research Centre) and IISC having MSc with M.Tech as one of the eligibility criteria for PhD admission in interdisciplinary studies.(Annexure I) Furthermore, CEE has own alumni with M.Sc + M.Tech (RE) and they are interested to peruse PhD from CEE, but cannot apply due to current minimum qualification for PhD admission. Therefore, the qualifications for Ph.D admission in CEE are proposed as **"B.Tech./B.Arch./B.E./M.Sc. and Master's degree in Engineering/Technology/Architecture in relevant areas"**. (Attached DPGC MoM)

		2021/SPGB /CEE/2: There are many B.Tech/B.E/ M.Sc branches are not included as minimum qualifications for admission for M.Tech in Renewable Energy at CEE, the minimum qualifications for admission for M.Tech in CEE are proposed with addition of **" any other relevant specialization"** to the existing minimum qualifications. (Attached DPGC MoM)
6	Justification of the Agenda	**2021/SPGB /CEE/1:** Many Indian reputed institutes such as IITs, NITs (MNITJ-Materials Research Centre) and IISC having MSc with M.Tech as one of the eligibility criteria for PhD admission in interdisciplinary studies.(Annexure I) **2021/SPGB /CEE/2:** CEE offers an interdisciplinary M.Tech in Renewable Energy for wide range of specialization. To improve the visibility, it is proposed with addition of **" any other relevant specialization"** to the existing minimum qualifications. Below attached IITD snapshot of brochure (2021-22) to support the other relevant specialization for minimum qualification. (Attached DPGC MoM) **https://ecampus.iitd.ac.in/ILS/help_doc/Information_Brochure_1_Sem.pdf**
	Enclosures	Annexure I DPGC Mom (05-07-2021)

Table 5: Experience required for admission to part-time Ph.D., M.Tech., M.S.(R) Programmes

For admission to part-time programme	Qualifications	Work Experience (Post Qualification)
Ph.D.	M.E./M.Tech./M.S.(R)/M.D.or Equivalent	Nil
Ph.D.	B.E./B.Tech./M.Sc./M.A./M.B.A./MBBS or equivalent, from CFTIs/Central Universities	1 Year
Ph.D.	B.E./B.Tech./M.Sc./M.A./M.B.A./MBBS or equivalent and working in IIT Delhi* (Project or Regular) *Through proper channel	1 Year
Ph.D.	B.E./B.Tech./M.Sc./M.A./MBA/MBBS or equivalent, from institutions other than CFTIs/Central Universities	2 Years
M.Tech./MS(R)	B.E./B.Tech./M.Sc or equivalent, from CFTIs/Central Universities	6 Months
M.Tech./MS(R)	B.E./B.Tech./M.Sc or equivalent, and working in IIT Delhi* (Project or Regular) * Through proper channel	6 Months
M.Tech./MS(R)	B.E./B.Tech./M.Sc or equivalent, from institutions other than CFTIs/Central Universities)	1 Year

Signature

Name: Kapil Pareek

Designation: DPGC Convener

Malaviya National Institute of Technology Jaipur

Centre for Energy and Environment

Minutes of the DPGC Meeting

Date: 05th Jul, 2021

Meeting of the Departmental Post-Graduate Committee was held online on 05-07-2021 at 02:00 pm. Following faculty members were present in the meeting.

1. Dr. Kapil Pareek (Convener, DPGC)
2. Dr. Rohit Bhakar (Member)
3. Dr. Vivekanand (Member)
4. Dr. Amartya Chowdhury (Member)
5. Dr. Sunanda Sinha (Member)
6. Dr. Aneesh Prabhakar (Member)
7. Dr. Parul Maturia (Member)

Prof. Jyotirmay Mathur, Dr. Ram Niwas Sharma, and Dr. Prena Jain could not attend the meeting.

Points of brief discussion during the meeting:

Agenda no 1. To discuss the minimum qualifications for admission in M.Tech and PhD at CEE.

For PhD admission, many IITs, NITs and IISC consider M.Sc along with M.Tech degree (Annexure I). Currently, M.Sc Physics is one of the minimum qualification already approved for M.Tech in RE at CEE. Thus, qualifications for Ph.D admission in CEE are proposed as **"B.Tech./B.Arch./B.E./M.Sc. and Master's degree in Engineering/Technology/Architecture in relevant areas".**

Existing minimum qualifications for admission in PhD
B.Tech. B.Arch. With post-graduation in relevant discipline

Proposed minimum qualifications for admission in PhD
"B.Tech./ B.Arch./B.E./M.Sc. and Master's degree in Engineering/Technology/Architecture in relevant areas".

As there are many B.Tech/B.E/ M.Sc branches are not included as minimum qualifications for admission for M.Tech in Renewable Energy at CEE, the minimum qualifications for admission for M.Tech in CEE are proposed with addition of **" any other relevant specialization"** to the existing minimum qualifications.

Agenda no 2. To add new student members in DPGC.

Gautam Raina (2019REN913) PhD scholar and Bala Ganesh K (2020PCV5316) M.Tech student are included as student member in DPGC for 2021-2022.

Meeting ended with a vote of thanks to the chair.

(Rohit Bhakar) (Vivekanand) (Parul Mathuria)

(Sunanda Sinha) (Amartya Chowdhury) (Aneesh Prabhakar)

(Convener DPGC)

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
DEPARTMENT OF MECHANICAL ENGINEERING
MINUTES OF MEETING

Date: June 6, 2021

An online DUGC meeting of Mechanical Engineering Department was held on 5.06.2021 at 11.15 AM.

Prof. G. D. Agrawal, Convener, DUGC, Prof. M. L. Mittal, HOD, Prof. Himanshu Choudhary, Convener, DPGC, Dr. Mukesh Kumar, Dr. Gunjan Soni, Dr. Amit Kumar Singh, Dr. Anoj Meena, Member, Prof. A. P. S. Rathore and Dr. Tapas Bajpai, Invited member, Mr. Piyush Agrawal (2017UME 1164) and Mr. Anurag Raj (2018UME1108) CR, final and third year, Mr Shivam Kumar (2018UME 1611) concerned B. Tech. student of 3rd year, attended the meeting.

The DUGC meeting was called to discuss the proposal of new courses of program electives and open electives to be floated by different faculty members for B. Tech. final year students of Mechanical Engineering and other streams of engineering. Agenda items were circulated to all the members with all the course proposals before the meeting. One matter of 3rd year student Mr. Shivam Kumar was also discussed regarding permission to proceed on one semester industrial training with credit waive off .

Each course to be floated was discussed at three levels before coming to DUGC for discussion. Firstly discussions were held with two subject experts, then proposal was circulated to all the faculty members of the department and finally to all the faculty members of the institute. Comments or suggestions received were incorporated at each stage.

Each course to be floated was presented by the respective course coordinator in the meeting and suggestions given by the DUGC were later on incorporated. Now finally approved five courses from DUGC are being forwarded with strong recommendations to SUGB for approval, so that these courses may be floated in the next academic year of AY 2021-22

1. Adv. program elective course, MET- 477: Machine Learning by Dr. Gunjan Soni
2. Adv. program elective course, MET- 478: Reliability and Maintainability Engineering by Dr. Gunjan Soni
3. Open elective course, MET- 495: Strategic Product Development by Prof. A. P. S. Rathore
4. Open elective course, MET- xxx: Introduction to Sports Engineering by Dr. Mukesh Kumar

5. Program elective course, MET- xxx: Welding Engineering and Technology by Dr Tapas Bajpai
6. Internship Matter of VI Sem (Mechanical Engineering) student Mr. Shivam Kumar (ID 2018UME 1611) was discussed on the application of the student, for seeking permission for a semester long internship to Addverb Technologies Pvt. Ltd., Noida. DUGC allowed him to proceed with credit waive off as per the decision taken in 41st senate meeting. A separate note for this is prepared by the DUGC.

All the five course proposals approved by DUGC are attached for SUGB approval.

The meeting ended with thanks to the chair.

Prof. G. D. Agrawal
Convener, DUGC

MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR

Department of Mechanical Engineering

Course code : MET 477
Course Title : Machine Learning
Course Type : Advanced Program Elective
Course Credit (LTP) : 3 (3-0-0)
Course prerequisite : Basic fundamentals of statistics and mathematics
Course Description

This course provides a basic level introduction to the mathematics and statistics that underpin many of the modern machine learning algorithms. This course covers statistical inference and prediction. The inference portion will introduce common statistical concepts that allow us to understand a population and test hypotheses. The prediction section will begin with the simplest of algorithms (linear regression) and gradually touch upon more advanced topics such as random forests and neural networks. Real world data sets will be used from the fields of healthcare, manufacturing etc.

Course objectives:

1. To introduce students to the basic concepts and techniques of Machine Learning
2. To develop skills of using recent machine learning software for solving practical problems
3. To gain experience of doing independent study and research

Course outcomes:

After completion of this course, the student will be able to:

1. To formulate a machine learning problem
2. Select an appropriate pattern analysis tool for analyzing data in a given feature space.
3. Apply pattern recognition and machine learning techniques such as classification and feature selection to practical applications and detect patterns in the data

Course Content:

Lecture No.	Unit name	Topics to be covered
1-4	Introduction to Machine Learning	What is Artificial Intelligence (AI), What is Machine Learning, Difference between AI and ML, types of ML, applications of ML, types of data in machine learning ,exploring structure of data, quality of data
5-10	Data pre-processing	Simple text processing, box plots and histograms, correlation, auto-correlation, time series plots, graph visualization, some statistical concepts (like normal distribution, hypothesis testing, p-value etc.)

Lecture No.	Unit name	Topics to be covered
11-15	Modelling and Evaluation	Model selection (predictive and descriptive models), feature transformation, feature sub-set selection, Bias, variance and complexity, confusion matrix, model accuracy measures
16-25	Supervised learning : Classification	Classification steps, k-nearest neighbor, decision tree, random forest model, support vector machines
26-32	Supervised learning : Regression	Simple regression models, multiple linear regression, assumptions in regression analysis, logistic regression
33-38	Unsupervised learning	Factor analysis, principle component analysis
39-42	Artificial Neural Network (ANN)	Understanding biological neuron, single layer feed forward network, back propagation algorithm, learning process in ANN, deep learning

Evaluation Scheme

No.	Evaluation Component	Weightage	Nature of the Component
1	Mid Term	40%	Open/closed Book
2	End term exam	40%	Open/closed Book
3	Quiz/Assignment/ Project report	20%	Take home or class assignment/Quiz/Presentation etc.

Reference Books

1. Kellaher, A. and Kellaher, A. (2019), Machine Learning in Production, Pearson.
2. Cox, D.R. and Donnelly, C.A. (2011), Principles of Applied Statistics, Cambridge Press.
3. Johnson, R.A. (2011), Probability and Statistics for Engineers 8th Ed., PHI Learning
4. Trevor, H., Tibshirani, R. and Friedman, J. (2017), The Elements of Statistical Learning 2nd Ed., Springer.

(Gunjan Soni)

MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR

Department of Mechanical Engineering

Course code : MET478
Course Title : Reliability and Maintainability Engineering
Course Type : Advanced Program Elective
Course Credit (LTP) : 3 (3-0-0)
Course prerequisite : None

Course Description

The objective of the course is to provide the students with the fundamental concepts, the necessary knowledge and the basic skills related to systems reliability and systems maintenance function. The course intends to expose the students to the concept of reliability and to help them learn the techniques of estimating reliability and related characteristics of components/ systems. Moreover, it exposes them to the necessary engineering techniques used for analyzing, planning and controlling maintenance systems.

Course outcomes:

After completion of this course, the student will be able to

1. Use statistical tools to characterise the reliability of an item and determine the reliability of a system, and will also understand the application of maintenance strategies in a manufacturing environment;
2. Establish maintenance strategies according to system characteristics and design transition programs to implement these strategies.
3. Develop ability in formulating suitable maintenance strategies to enhance system reliability of a manufacturing system

Lecture No.	Unit name	Topics to be covered
1-3	Introduction to reliability	Failures of engineering systems, causes of failures, bathtub curve, component reliability from test data, logic diagrams, reliability improvement techniques
4-12	Statistical methods in Reliability	Probability theory, random variables, discrete variables, continuous variables, joint probability distributions, discrete failure time distributions

Lecture No.	Unit name	Topics to be covered
13-18	Reliability testing	Objectives of life testing, types of tests, Accelerated life test, stress combinations, step-stress methods
19-25	Data analysis and reliability estimation	Point estimation, goodness of fit tests, moment estimation, maximum likelihood estimator
26-32	Economics of Reliability	Economic issues, Manufacturer's cost, customer's cost, reliability achievement cost, reliability utility cost models, depreciation cost models, availability cost model
33-35	Basics of Maintainability	System, maintenance, downtime and maintainability
36-39	Maintainability Measures and Prediction	Measures of maintainability, maintenance tasks
40-42	Maintainability design and testing	Maintainability design process and features, maintainability tools

Reference Book(s)

1. Charles E. Ebeling, Reliability and Maintainability Engineering, Tata McGraw Hill, 2000.
2. E. Balagurusamy, Reliability Engineering by Tata McGraw-Hill Publishing Company Limited, 2002.
3. Muralidharan, K. and Syamsundar, A., Statistical Methods for Quality, Reliability and Maintenance

MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR
Department of Mechanical Engineering

Course code : MET 495
Course Title : Strategic Product Development
Course Type : Open Elective
Course Credit (LTP) : 3 (3-0-0)
Course prerequisite : None

Course Description
This course focuses on the process whereby organizations solve consumer problems by introducing new products or services. Identification of the generic product development process is the starting point and the axis around which class contents revolve. Students are introduced to the techniques and insights required to navigate the processes of ideation, idea management, product development process, and commercialization. They are presented with industry examples for the application of these methods and concepts.

Prerequisite(s): None

Learning Objectives
By the end of this course, students will be able to:

1. Understand the role of and apply strategy and marketing analysis to inform decision making at each step of the new product development process.
2. Grasp key trade-offs faced by innovative firms
3. Understand how the interaction with users, collaborators, experts, and firms can be used to identify viable opportunities.
4. Master techniques aimed to reduce risk from the NPD process.
5. Understand the nuances of the product development process in select industries.

Course Structure

Topic 1. Course Overview and Introduction to Strategic Product Development
Topic 2. Consumers and Opportunities – Consumer Needs Analysis
Topic 3. Blue Ocean Strategy- How it Can Help in NPD
Topic4.Ideation and New Product Adoption- Adopting Consumer Needs to Product Specifications
Topic 5. Generation, Selection and Testing of Product Concepts
Topic 6. Product Architecture- How it Affects NPD Process?
Topic 7. Industrial Design- The Process of Creating Better Functional Interface and Aesthetics of a Product.
Topic 8. DSM- A Tool to Streamline the PD Process
Topic 9. Prototyping and Economic Analysis

Ref Books:
Ulrich, K.T. and Steven D. Eppinger (2004), Product Design and Development. Tata Mcgraw Hill
Norman, D. (2013), The design of everyday things, Basic Books; 2nd edition
Mauborgne, R. and W. Chan Kim, W.C. (2015), Blue Ocean Strategy, Harvard Business Review

(APS Rathore)

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर

Malaviya National Institute of Technology Jaipur

(An Institute of National Importance under Ministry of HRD, Govt. of India)

Jawahar Lal Nehru Marg, Jaipur-302017, Rajasthan

Department of Mechanical Engineering

An **Open Elective Course** on "**Introduction to Sports Engineering**" is proposed for final year B.Tech. students for the next academic **session 2021-22**. The details of the course are enclosed.

Submitted for approval

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Department of Mechanical Engineering

Course Code	:	_____
Course Type	:	**Open Elective**
Course Title	:	**Introduction to Sports Engineering**
Course Credits (L-T-P)	:	**4 (3-1-0)**
Course pre-requisites	:	**Elementary science and engineering knowledge with some interest in sports activities.**

Course Description: Sports engineering is the technical application of mathematics and physics to solve sporting problems. These might include; designing equipment, building facilities, analyzing athlete performance, regulating standards, ensuring safety requirements are met, developing coaching tools. The course essentially prepares engineering students to utilize their existing technical know-how for sports applications. The specific focus is on Mechanics, Materials, Design principles, and data analysis. The course introduces students to sports biomechanics, analysis of human movement in sports, Force and motion analysis using various standard techniques, sensors, data analysis, and performance measure. Sports equipment and surface property affecting performance and injury.

Course Scope & Objective: This is an introductory course to impart knowledge and skill set related to working with human in sports engineering application. Understanding human movement pattern and performance measurement. Understand access and analyze the effect of equipment, sports surfaces, and environment on sports performance. Use of ergonomic concepts, image processing, smart sensors, and data analysis in sports engineering. Standard techniques of evaluation and testing of sports equipment and sports surfaces and appreciation of business around the sports industry. Sports Engineering is a growing technology-based sector, which supports and augments the growth of sports. In India, Sports Engineering is going to create numerous business opportunities and employment opportunities.

Course Outcomes: On successful completion of this course, students will be able to:

1. Explain the sports engineering domain.
2. Demonstrate how to frame a sports engineering related problem and apply suitable engineering solution.
3. Assess the effect of sports surfaces and equipment on sports performance
4. Demonstrate use of information technology tools for data accumulation & Sports performance analysis.

Course Content:

Module 1: Sports Engineering and Technology:

Basic concept of Sports, Fitness, Sports Medicine, Sports Science, Sports Technology;

Introduction to Sports Engineering and Sustainability; Objectives and Importance of Sports Engineering; Connecting engineering with Sports development; Sports Engineering Research studies - over view

Module 2: Human Kinetics & Bio-mechanics:

Meaning, scope and role of kinesiology & sports biomechanics, Anatomical & kinesiological, Body Position, Planes, Axis and their types; Forces, motions, and displacement; Lever and principle of human body lever; Angle of pull; Projectile motion

Work, Energy, Impulse, momentum and Power; Friction & fluid resistance;

Concept of human movements, fundamental movements of human body, qualitative and quantitative methods of human movements and sports skills

Module 3: Ergonomics and Anthropometry:

Introduction to ergonomics, Principle of Ergonomics: Anthropometry, Physiology of body movement, Physiological aspects of neuromuscular coordination, Biomechanical aspects of body movement, Biomechanical models in ergonomics, handling and upper extremity intensive work, Physical work capacity: principles and its applications

Application of Ergonomic Principles: Workstation evaluation and design, Tool evaluation and design, Gymnasium ergonomics, System design and task analysis,

Introduction to anthropometry and its application in sports; Anthropometry measures and anthropometric techniques in Sports

Module 4: Mechanical analysis of Sports Movements/Skills:

Mechanical principles in fundamental sports skills like Walking, Running, Jumping, Throwing, Lifting, Pulling, Pushing, Catching, Sitting & Climbing, etc. and their analysis.

Quantitative, Qualitative, and predictive methods of analysis sports skills

Computer application in sports, Computerized Performance Analysis Systems and Artificial

Intelligence in sports, Data and Information

Module 5: Sports Infrastructure and Surface Materials:

Basics of Sports Infrastructure, Construction, Maintenance and Monitoring, History and development of sports Surfaces, surface Classification and characterization, Surface test methods, Sports Surfaces and Performance, Chemistry of Sports Surface materials like nano materials, Acrylic Sports Flooring, synthetic FRPs etc.

Module 6: Sports Equipment: Case Studies / Industry visit & linkage:

Design principle and modern materials used in manufacturing sports and gym equipments, case studies

Lecture plan:

Syllabus	Lectures (hrs)
Module 1: Sports Engineering and Technology: Basic concept of Sports, Fitness, Sports Medicine, Sports Science, Sports Technology; Introduction to Sports Engineering and Sustainability; Objectives and Importance of Sports Engineering; Connecting engineering with Sports development; Sports Engineering Research studies - over view	**04**
Module 2: Human Kinetics & Bio-mechanics: Meaning, scope and role of kinesiology & sports biomechanics, Anatomical & kinesiological, Body Position, Planes, Axis and their types; Forces, motions, and displacement; Lever and principle of human body lever; Angle of pull; Projectile motion; Work, Energy, Impulse, momentum and Power; Friction & fluid resistance; Concept of human movements, fundamental movements of human body, qualitative and quantitative methods of human movements and sports skills	**09**
Module 3: Ergonomics and Anthropometry: Introduction to ergonomics, Principle of Ergonomics: Anthropometry, Physiology of body movement, Physiological aspects of neuromuscular coordination, Biomechanical aspects of body movement, Biomechanical models in ergonomics, handling and upper extremity intensive work, Physical work capacity: principles and its applications; Application of Ergonomic Principles: Workstation evaluation and design, Tool evaluation and design, Gymnasium ergonomics, System design and task analysis; Introduction to anthropometry and its application in sports; Anthropometry measures and anthropometric techniques in Sports	**09**

Module 4: Mechanical analysis of Sports Movements/Skills: **12**

Mechanical principles in fundamental sports skills like Walking, Running, Jumping, Throwing, Lifting, Pulling, Pushing, Catching, Sitting & Climbing, etc. and their analysis; Quantitative, Qualitative, and predictive methods of analysis sports skills Computer application in sports, Computerized Performance Analysis Systems and Artificial Intelligence in sports, Data and Information

Module 5: Sports Infrastructure and Surface Materials: **06**

Basics of Sports Infrastructure, Construction, Maintenance and Monitoring, History and development of sports Surfaces, surface Classification and characterization, Surface test methods, Sports Surfaces and Performance, Chemistry of Sports Surface materials like nano materials, Acrylic Sports Flooring, synthetic FRPs etc.

Module 6: Sports Equipment: Case Studies / Industry visit & linkage: **03**

Design principle and modern materials used in manufacturing sports and gym equipments, case studies

Total tentative lectures = **43**

Tutorial Plan

S. No.	Tutorial
1.	Plane , Axis and Fundamental Movements
2.	Fundamental movements of Human Body
3.	Application of Kinetics in sports performance
4.	Anthropometric Measurements Upper Body
5.	Anthropometric Measurements lower Body
6.	Gymnasium Equipments and design
7.	Analysis of fundamental Skills – Walking Gait
8.	Gymnasium equipments ergonomics
9.	Gymnasium equipments design
10.	Video Analysis of Movements
11.	Qualitative Analysis of Sports Performance
12.	Computerized Performance Analysis Systems
13.	Artificial intelligence used for ground maintenance
14.	Surface Classification and characterization
15.	Surface Test methods
16.	Chemistry of Sports Surface

Evaluation Scheme:

S. No.	Evaluation Component	Weightage	Nature of the Component
1	Mid Term	30%	Open/closed Book
2	End term exam	50%	Open/closed Book
3	Quiz/Assignment/ Project report	20%	Take home or class assignment/Quiz/Presentation etc.

Reference Books:

1. P. Grimshaw, (2007), Sport and exercise biomechanics, New York: Taylor & Francis,
2. Roger Bartlett, (2007), Introduction to Sports Biomechanics: Analyzing Human Movement Patterns,2nd edition by Routledge Publishing,
3. Mike Jenkins, (2003), Materials in sports equipment, Woodhead Publishing UK
4. Katharina F Well's and Kathryn Luttgens, Kinesiology: Scientific basic of human motions, 6th Edition, Philadelphia
5. Sharon Dixon, Paul Fleming, Iain James, Matt Carré, The Science and Engineering of Sport Surfaces,
6. Connolly, Thomas M. and Carolyn E. Begg, Addison-Wesley (2015), Database systems: a practical approach to design, implementation and management (5th edition),
7. Youlian Hong, (2014), The Routledge Handbook of Ergonomics in Sport and Exercise, Routledge

Specific comments:

1. Sport engineering has been introduced in our country since last a few years. Department of Mechanical Engineering, BITS Pilani is running the course successfully. Other institutes, such as Kerala's Sports & Management Research Institute, Pune's Institute of Sports Science & Technology and Jaipur's NASM Academy, have some course certification.
2. During the 9th International Webinar of the Sports Engineering Association of India (SEA) on February 20, 2021, in which they explicitly addressed the need and scope of such courses in the country. They outlined that such courses/ programmes must be offered by engineering Colleges and Departments of the country and that is the need of the time.
3. The countries like US, UK, Germany, Australia, Japan, China etc. are excelling in sports engineering, hence they come up with better sports and health equipment's.
4. The sports engineering still a growing technology based area having numerous business opportunities and employment opportunities in the future.
5. Presently there is no any 4-year degree course in Sports Engineering in India, even we don't have patent to manufacture our sports equipments.

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MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY
JAIPUR
Jaipur-302017, Rajasthan

MECHANICAL ENGINEERING DEPARTMENT

A programme elective course on '**Welding Engineering and Technology**' is proposed for B. Tech final year students in the academic session 2021-22. The course objectives, content and other relevant information is provided with the enclosed document.

Submitted for approval.

MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR

Department of Mechanical Engineering

UG	**Department: Mechanical Engineering**
Course Code: MET???	**Course Name: Welding Engineering and Technology**
Credit: 3	**L-T-P: 3-0-0**

Course pre-requisite: Basic knowledge of welding processes.

Course Description

Modern material assemblies involve the usage of alloys for a given commercial application and welding plays a crucial role in the service life of such applications. Hence, it is important to understand welding processes to take advantage of the forefront developments taking place in this domain. The proposed course is designed to impart students a holistic view of the fundamentals of recent advancements in the welding technology so that these can be implemented effectively in different manufacturing sectors. Since mechanical properties and microstructures always go hand in hand, few important aspects of welding metallurgy is included in the syllabus. The course also intends to cover relevant topics such as design of pressure vessels, non-destructive examination methods and modeling of various physical phenomena of the welding processes.

Course objectives

1. To impart fundamental knowledge on principles of advanced welding processes so that
   it can be implemented in fabrication industry applications.
2. To select an appropriate welding process for a specific application
3. To model the physical phenomena of the welding processes.
4. To asses weld joint strength under different loading conditions.

Course outcomes:

After completion of this course, the students will be able:

1. To explain the physics involved in advanced welding processes.
2. To understand the basic metallurgy of fusion welds.
3. To apply appropriate mathematical models for different welding processes.
4. To calculate magnitude of residual stresses and distortions in weldments.
5. To design heavy welded fabrications.
6. To select suitable weldability test for a specific application.

Course Content:

Unit 1: Modern Welding Processes
Power sources for arc welding, variants of fusion welding processes, resistance welding processes, solid state welding processes; hybrid welding processes; power beam welding processes; microjoining and nanojoining processes; underwater welding; metal printing.

Unit 2: Welding Metallurgy
Solidification of welds; Chemical reaction in welds; Metallurgy of fusion welds; heat treatment of welds; weldability of metals and non-metals.

Unit 3: Computational Welding Mechanics
Power densities; analysis of heat flow; 2D and 3D heat sources; fluid flow modelling; electromagnetic modelling; microstructure modelling; solute transfer, heat sink.

Unit 4: Residual Stresses and Distortions
Introduction; measurement and calculation of residual stresses; methods of controlling residual stresses; distortions; control of distortions in weldments.

Unit 5: Heavy Welded Fabrications
Design for pressure vessels and tubular joints; ship building; welded bridges and off-shore structures.

Unit 6: Weld Testing and Quality Control
Weld defects; service weldability tests; destructive and non-destructive tests (NDT); pressure and leak testing; expert systems in welding.

Evaluation Scheme:

S. No.	Evaluation	Weightage (%)	Nature of the component
1.	Mid Term Exam	30	Open/closed book
2.	Project/ Quiz(s)/Assignment(s)	20	Take home or class assignment/Quiz
3.	End Term Exam	50	Open/closed book

Reference Book(s)/ Text Book(s)

1. Welding Handbook, American Welding Society, Vol. 2, Eighth Edition, 1991.
2. Robert Messler, Principles of Welding, John Wiley & Sons, 1999.
3. J.A. Goldak and M. Akhlaghi, Computational Welding Mechanics, Springer, 2005.
4. S. Kou, Welding Metallurgy, John Wiley & Sons, Second Edition, 2003.
5. S.V. Nadkarni, Modern Arc Welding Technology, Ador Welding Limited, 2010.
6. V. M. Radhakrishnan, Welding Technology and Design, New Age Publishers, 2002.
7. Y. Zhou, Microjoining and Nanojoining, Woodhead Publishing, 2008.

Organic Electronics Material & Devices

(PHT 422)

(B Tech VII/VIII semester)

Course File

(2020-21 Odd/Even Semester)

Department of Physics
Malaviya National Institute of Technology
Jaipur-302017

45

Physics

COURSE FILE

Program	:	**Bachelor of Technology**
Semester	:	**VII/VIII**
Course Code	:	**PHT 422**

Approved By

HoD Physics

CONTENTS

1. SYLLABUS
2. REFERENCES
3. COURSE OUTCOMES
4. CO-PO MAPPING
5. LECTURE PLAN

1. SYLLABUS (Module wise)

Semester: VII/VIII **Code: PHT 422**
Subject: Organic Electronics Material and Devices **Credits: L-T-P: 2-1-0**
Total Theory Periods: 26, Tutorials: 13
Marks: 30 in Mid-Terms, 50 in End-Term (20 Marks to internal assessment)

Module 1 [Lectures: 6, Tutorials: 5]
Fundamental physics and electronic properties: Introduction; Schrodinger equation; Particle in a Box; Fundamentals of Semiconductors: semiconductors and their uses; Junctions: Ohmic and Schottky Junction; Introduction to I/V curve; General Devices: Diode, PV, Transistor, Sensor.

Module 2 [Lectures: 5, Tutorials: 0]
Introduction of Conducting Polymers; Synthesis and types of conducting polymer; General synthesis methods for each type; Processing and Fabrication: Spin coating, Evaporation, Sputtering, Electrospinning, Drop casting, Templating.

Module 3 [Lectures: 7, Tutorials: 4]
Charge Transport: Generation of the charged species, Conduction of the charges, Collection of charges at the electrode; Organic Devices: Conduction in Organic devices, Conduction at the junction and electrode, Space charge limited current, Specific Organic devices: Transistors, OPV, OLED and Sensors.

Module 4 [Lectures: 8, Tutorials: 4]
Organic Light Emitting Devices: How Do We Perceive Color, Basic OLED Properties and Performance;
Organic LEDs: Electrical Current in Organic Thin Films; Display Driving Schemes; Different types of Organic LEDs: Conventional (OLED), Transparent (TOLED), Inverted (OILED), Metal-Free (MF-TOLED), Flexible (FOLED), Stacked (SOLED), Organic LED Displays; Device Characterizations and Stability: Quantum efficiency, Impedance Spectroscopy, Degradation issues; Modern devices: Flexible Glass material, Advance 2D and 3D materials

2. REFERENCES

Text Books:

1. Organic Field Effect Transistors - Theory, Fabrication and Characterization, I. Kysmissis, Springer (2009)
2. Physics of Organic Semiconductors, Wiley-VCH, edited by W. Brütting (2005)
3. Organic Electronics, Materials, Processing, Devices and Applications, d. by F. So, CRC Press (2010)

Reference Books:

1. Zhenan Bao and Jason Locklin, Organic Field-Effect Transistors (Optical Science and Engineering), CRC Press, 2007
2. Ioannis Kymissis, Organic Field-Effect Transistors: Theory, Fabrication and Characterization (Integrated Circuits and Systems), Springer, 2009
3. Qiquan Qiao (Editor), Organic Solar Cells: Materials, Devices, Interfaces, and Modeling (Devices, Circuits, and Systems), CRC Press, 2015
4. Christoph Brabec, Ullrich Scherf, Vladimir Dyakonov (Editors), Organic Photovoltaics: Materials, Device Physics, and Manufacturing Technologies, Wiley-VCH, 2014
5. Frederik C. Krebs, Stability and Degradation of Organic and Polymer Solar Cells, Wiley, 2012
6. Hagen Klauk (Editor), Organic Electronics: Materials, Manufacturing, and Applications, Wiley-VCH, 2006; Organic Electronics II: More Materials and Applications, Wiley-VCH, 2012
7. Franky So (Editor), Organic Electronics: Materials, Processing, Devices and Applications, CRC Press, 2009
8. Mario Pagliaro, Flexible Solar Cells, Wiley-VCH, 2008

3. COURSE OUTCOMES

After successfully completing this course student should be able to understand the overview of organic electronic materials and devices with emphasis of research and practical applications. Topics covered on organic and flexible electronics include conjugated semiconducting materials, organic electronic & optoelectronic devices, such as thin-film transistors (OTFTs), light-emitting diodes (OLEDs), solar cells (OPV), etc., and technologies on flexible substrates.
The student will acquire an ability to -

CO1	enquire about structure and properties of organic materials and devices, their functioning and properties, and field of applications.
CO2	exemplify specific organic electronics materials, their properties, and applications
CO3	perceive the applications of organic electronic materials, such as in displays and photovoltaic systems
CO4	exemplify the architecture, characterization, and utilization of electronic components based on organic electronic materials

4. CO-PO MAPPING

		POs											
COs		1	2	3	4	5	6	7	8	9	10	11	12
	CO1	2	2	2	2	1	2	2	1	1	1	--	2
	CO2	3	3	2	3	1	2	2	2	1	1	--	2
	CO3	3	3	2	3	1	2	3	1	2	1	--	2
	CO4	2	2	3	2	1	2	2	1	1	1	--	2

Note: COs-POs Mapping:

Score	Description
--	The COs do not help in achieving the PO
1	The COs partially help in achieving the PO
2	The COs moderately help in achieving the PO
3	The COs strongly help in achieving the PO

5. LECTURE PLAN

Department	Physics	Session:	2020-21
Name of Teacher	Dr. Kamakshi	Semester	VII/VIII
Subject	Organic Electronic Material and Devices	Sub. Code	PHT 422
TIME SCHEDULE: Total Theory Periods: 26 Total Tutorial Periods: 13			

SN	Lectures	Topic	References
		Module-I	
		Total Lectures required: 6 Theory, 5 Tutorials	
1.	L1	Fundamental physics and electronic properties: Introduction	T1, T2, T3
2.	L2	Schrodinger equation; Particle in a Box	T1, T2, T3
3.	L3	Fundamentals of Semiconductors: semiconductors and their uses	T1, T2, T3
4.	L4	Junctions: Ohmic and Schottky Junction	T1, T2, T3
5.	L5	Introduction to I/V curve	T1, T2, T3
6.	L6	General Devices: Diode, PV, Transistor, Sensor.	
		Assignment 1	
		Module- II	
		Total Lectures required: 5 Theory, 0 Tutorials	
13.	L1	Introduction of Conducting Polymers	
14.	L2	Synthesis and types of conducting polymer	
15.	L3	Synthesis methods	
16.	L4, L5	Processing and Fabrication	
		Assignment 2	
		Module- III	
		Total Lectures required: 7 Theory, 4 Tutorials	
17.	L1	Charge Transport: Generation of the charged species	T1, T2, T3
18.	L2	Conduction of the charges, Collection of charges at the electrode	T1, T2, T3
19.	L3	Organic Devices: Introduction, Conduction in Organic devices	T1, T2, T3
20.	L4, L5	Conduction at the junction and electrode, Space charge limited current	T1, T2, T3
21.	L6, L7	Specific Organic devices	T1, T2, T3
		Assignment 3	

		Module -IV	
		Total Lectures required: 8 Theory, 4 Tutorials	
22.	L1	Organic Light Emitting Devices: Introduction, How Do We Perceive Color	T1, T2, T3
23.	L2	Basic OLED Properties and Performance	T1, T2, T3
24.	L3	Organic LEDs: Electrical Current in Organic Thin Films	T1, T2, T3
25.	L4	Display Driving Schemes	T1, T2, T3
26.	L5, L6	Different types of Organic LEDs	T1, T2, T3
27.	L7	Device Characterizations and Stability	T1, T2, T3
28.	L8	Modern devices	T1, T2, T3
		Assignment 4	

(Dr. Kamakshi)
Course Coordinator

(Dr. Rahul Singhal)
HoD, Physics

Course Structure (UG: Core, Open Elective and Lab)

S. No.	Course Code	Credit (L, T, P)	Course title	Course coordinator
1.	PHT 101	**4 (3, 1, 0)**	B.Tech Physics Theory (Core)	Dr. Anirban Dutta
Open Electives				
2.	PHT411	**3 (2, 1, 0)**	Bio-inspired and Bio-mimetic Materials	Dr. Kamlendra Awasthi
3.	PHT413		Introduction to Biophysics	Dr. Kamlendra Awasthi
4.	PHT414		Introduction to Elementary Particle Physics	Dr. Kavita Lalwani
5.	PHT415		Introduction to theory of relativity and cosmology	Dr. K Venkataratnam Kamma
6.	PHT418		Magnetic Memory Devices	Dr. Manoj Kumar
7.	PHT419		Physics of Nanomaterials	Dr. Srinivasa Rao Nelamarri
8.	PHT420		Physics of Particle Detectors and Technology	Dr. Kavita Lalwani
9.	PHT421		Solar Energy and Physics of Photovoltaics	Dr. Debasish Sarkar
10.	PHT422		Organic Electronic Material and Devices	Dr. Kamakshi
11.	**B.Tech First Year Physics Lab** PHP 102	**1(0,0,2)**	**Practical Lab**	Dr. Rajnish Dhiman

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR **Annexure -G**

ACADEMIC SECTION

Dated: August 11, 2021

Minutes of the Meeting

Sub: Guidelines for addition of joint-supervisor both external/internal in Ph.D. Programme

A meeting was held on 11-08-2021 to discuss the item no. 47-2.8 and 47-2.9 of 47th SPGB meeting held on 06-08-2021. Following members were present

1. Prof. Rakesh Jain, Chairman SPGB Member
2. Prof. Kanupriya Sachdev, Associate Dean (PG)
3. Prof. Himanshu Chaudhary, ME Dept.
4. Dr. Manish Vashishtha, Chemical Engg. Dept.
5. Prof. Vijay Laxmi, Associate Dean (Academics)

Deliberations were held and following decisions were taken.

1) As per the discussion in the meeting, the following decisions were made in respect of the agenda "to revise/modify the criteria for addition of joint-supervision (external/internal) in Ph.D. program". The committee unanimously agreed to retain the Senate decision vide Item No. 41-3.13 and notified vide office order no. F. No. F4/S-V-1/20-21-Acad-Typ (41-Senate)/192 dated 20-04-2021 along with the addition of the following :-
   - Exceptional cases not included in the above office order may be allowed subject to approval by Chairman Senate. Such cases need to be justified by the Supervisor and favorably recommended by DPGC of the respective department,
   - Foreign university within QS/THE 500 (Ranking for International Institutes will not be considered for the institutes having Academic MOU or Academic/Research collaboration with MNIT Jaipur) / World renowned Research Organization/Lab.

2) The PhD students applying for conversion from full time to part time **(irrespective of the distance of the organization from MNIT Jaipur)** are required to submit a NOC on the letter head of Institute/Organization in the following format:-

   "This is with reference to Mr./Ms. _____ working in this organization as _____(post). The undersigned has no objection to permit Mr./Ms. _____for pursuing the Ph.D. programme (part time) at MNIT Jaipur in the Department of_____. This bears the approval of competent authority."

   The conversion would be allowed only if the student has satisfied the minimum period of residence as Full-time student. The students converting from full time to part time are not allowed to submit the PhD thesis before one year from the date of issue of NOC by the institute/organization or minimum residency period* (as decided by Senate from time to time) for Part-Time students, whichever is later. Such students also need to fulfil any minimum attendance requirement as stipulated in PG regulations or decided by respective supervisor(s)/DREC, whichever is more (in terms of number of days).

Prof. Rakesh Jain
SPGB Convener

Prof, Kanupriya Sachdeva
Associate Dean (PG)

Prof. Himanshu Choudhary
DPGC Convener (Mech.)

Dr. Manish Vashishtha
Head, Chemical Engg.

11/8/2021
Prof. Vijay Laxmi
Associate Dean (Academic)

* It may be noted that vide decision regarding Item No. 32 -4.7 of 32nd Senate held on 28th March 2015, PG regulations Clause 6.1 is as follows:

"The minimum period of residency for a Ph. D. (FT/PT non sponsored) student shall be 2 years/ 3 years (depending upon the program as stipulated in PG regulation) from the date of initial registration. However, no demarcation would be made regarding the residency period based on the date of completion of comprehensive exam/ State of art seminar."

Annexure -H

दैनन्दिनी संख्या MNIT DIARY NO.

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर
MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

पृष्ठ संख्या Page No.

पंजिका संख्याः एफ-4/S-II-1/21-22-Acad-OS

कार्यालय टिप्पणी

Note Sheet

Academic Section

Subject:-Minutes of 47th SPGB Meeting held on August 6, 2021 at 03:00 PM.

47th meeting of SPGB was held on August 6, 2021 at 03:00 PM in old senate Hall, Ground floor, Prabha Bhawan, MNIT. Jaipur.

The minutes of 47th SPGB meeting are put for kind approval.

(Kanupriya Sachdev)
Convener. SPGB

Chairman, SPGB

Chairman Senate

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

MINUTES OF THE 47th MEETING OF THE SPGB HELD ON Aug 06th2021

The 47th meeting of the SPGB was held on Aug 06, 2021 at 3:00 PM in the Old Senate Hall, Prabha Bhawan.

The meeting was attended by the following members:

S.No.	Name	Department
1.	Prof. Rakesh Jain	Chairman, SPGB
2.	Prof. Urmila Brighu	Dean, Academics
3.	Prof. Raj Kumar Vyas	Nominee Chairperson Senate
4.	Prof. Kanupriya Sachdev	Associate Dean (PG& PhD)/ Convenor SPGB
5.	Prof. Vijay Laxmi	Associate Dean (Academic)
6.	Dr. Anil Swarnkar	Associate Dean (UG)
7.	Prof. Nupur Tandon	Department of Humanities and Social Science
8.	Prof. M.M. Sharma	Department of Electronics & Communication Engineering
9.	Dr. C. Periasamy	Ph.D Co-ordinator
10.	Dr. Bhagwati Sharma	Materials Research Centre
11.	Dr. Manish Vashishtha	Department of Chemical Engineering
12.	Dr. Kapil Pareek	Centre for Energy & Environment
13.	Dr. Varun Jindal	Department of Mathematics
14.	Dr. K Venkataratnam Kamma	Department of Physics
15.	Dr. Yogesh Kumar Meena	Department of Computer Science & Engineering
16.	Dr. Vijay NavaratnaNadakuduru	Department of Metallurgical and Materials Engineering
17.	Dr. Sumanta Kumar Meher	Department of Chemistry
18.	Dr. Ashwani Kumar	Department of Architecture and Planning
19.	Prof. Himanshu Chaudhary	Department of Mechanical Engineering
20.	Prof. Manoj Fozdar	Department of Electrical Engineering
21.	Dr. Deepak Verma	Department of Management Studies
22.	Dr. Rajesh Gupta	Department of Civil Engineering
23.	Dr. Reetu Singh	Dy. Registrar Academic Section, Special Invitee

Following members couldn't attend the meeting:

S.No.	Name	Department
1.	Prof. Ravindra Nagar	Chairperson, SUGB
2.	Prof. M.K. Shrimali	National Centre for Disaster Mitigation &Management
3.	Dr. Sanjay Mathur	Immediate Past Chairperson, SPGB

The following agenda items were discussed and the recommendations are as follows:

Item No. 47-1.0	**To confirm the minutes of 46th meeting of the SPGB held on January, 30th 2021** SPGB confirmed the minutes of 46th meeting of SPGB held on 30th January 2021.
Item No. 47-2.0	**Items for Consideration.**
Item No. 47-2.1	**To consider the list of the students (2021 graduated in) eligible for award of degree in PG programmes in the forthcoming 15th Convocation.** The list of post graduate students is placed at **Annexure- A** SPGB recommended the list to be placed before the Senate for approval to award the degree to the students.
Item No. 47-2.2	**To consider the names of the students (2021 passed out) for award of Gold Medals in PG programmes in the forthcoming 15th Convocation.** The list of post graduate students is placed at **Annexure –B** SPGB recommended the list to be placed before the Senate for approval for award of Gold Medals to the students.
Item No. 47-2.3	**To consider the approval of a new programme/open elective course "Supply Chain Finance" proposed by the Department of Management Studies.** SPGB deliberated upon the issue and decided to approve the proposal submitted by the Department of Management Studies.
Item No. 47-2.4	**To consider the change in name of the course BMT660 Advanced Operations Research to BMT660 Advanced Operations Management offered by DMS** SPGB discussed the issue and decided to approve the desirable modification as proposed by the Department of Management Studies.
Item No. 47-2.5	**To formulate Anti-Plagiarism policy of the institute.** Comments were invited from all departments and were received from MRC only. The following modifications/corrections suggested by the Materials Research Centre were discussed in the meeting :- 1. Similarity checks for exclusion from plagiarism may be changed to "Maximum 8 word count is allowed for both UG as well as PG and PhD students". 2. Levels of Plagiarism: *Maximum 15% similarity index is allowed for the thesis, dissertation and reports submitted by the UG, PG and PhD students* may be modified as : Levels of Plagiarism: Maximum 20% similarity index is allowed for the thesis, dissertation and reports submitted by the UG students and 15% is allowed for PG and PhD students. However, if the similarity index from all the individual sources is <1% (for a PG or PhD student), then a

	similarity index upto 20% may be allowed. SPGB deliberated upon the issue and decided to recommend the proposed modification by the Materials Research Centre to the senate for approval.
Item No. 47-2.6	**To consider the amendment in minimum eligibility criteria for PhD &M.Tech admission at CEE** SPGB deliberated upon the issue and recommended the proposal submitted by the Department of the Centre for Energy & Environment to be placed before the Senate for approval.
Item No. 47-2.7	**To consider award of MBA degree to3 students who secured CGPA <6.0** The matter was not discussed by the SPGB as the agenda items had become redundant.
Item No. 47-2.8	**To consider the proposal to revise/modify the criteria for addition of joint-supervisor (external / internal) in Ph.D. programme,** The matter was discussed in length and it was decided that Dean Academic will constitute a Committee to look into the proposal submitted by the Department of Mechanical Engineering in line with the decision taken in by the Senate in its 41st meeting held on 18th March 2021.
Item No. 47-2.9	**To consider the conditions of NOC to be submitted by the Ph.D students from their employer (more than 70 Km from Jaipur) for converting from Full-time to Part-time before completion of three years of Ph.D registration** There are some Ph.D students who get employment in reputed Government /Private Institute during their Ph.D. However, they are not able to submit the NOC in the specified format as most of the Institutes/Organization use their own format. The SPGB deliberated & noted that there are different requirement for different departments and all research scholars may not require the same level of laboratory and Research facilities. Finally, the SPGB decided that a committee may be constituted by the Dean Academic to deliberate the matter and give its recommendation.
Item No. 47-2.10	**To consider the recommendation of DPGC of the Centre for Energy & Environment in respect of the Ph.D. scholar Mr. Naresh Kumar Jangir (2018REN9053) who has not reported/registered for last 01 Year.** The SPGB instructed the DPGC convener to send its recommendations as per PG regulations for Mr. Naresh Kumar Jangir in line with the similar recommendations for other students.
Item No. 47-2.11	**To consider the list of PhD students recommended by the respective Departments for termination as per PG RR 5.6/8.3(2)/8.3(5).The list of PhD students is enclosed at Annexure- J.**

	The SPGB approved the termination of students as per the list attached.
Item No. 47-2.12	**To consider the approval of proposed New PG Schemes.** The SPGB deliberated upon the issue and decided to recommend the PG schemes proposed by the departments for approval of the senate.
Item No 47-3.0	**Reporting Items.**
Item No 47-3.1	**To report PG students permitted for internship work in other institute. The list is placed at –Annexure- L** Noted and Ratified.
Item No 47-3.2	**To report Ph.D students granted approval for change of supervisor. The list is placed at Annexure- M** Noted and Ratified.
Item No 47-3.3	**To report Ph.D students whose status is converted from Full time to Part Time. The list is placed at Annexure-N** Noted and Ratified..
Item No 47-3.4	**To report Ph.D students permitted for comprehensive exam extension. The list is placed at Annexure- O** Noted and Ratified.
Item No 47-3.5	**To report MNIT Faculty permitted to supervise Ph.D. students of other Institute. The list is placed at Annexure-P** Noted and Ratified.
Item No 47-3.6	**To report Ph.D Students permitted for research work in other Institute. The list is placed at Annexure- Q** Noted and Ratified.
Item No 47-3.7	**To report Ph.D Students permitted for semester extension for January 2021 to June 2021. The list is placed at Annexure-R** Noted and Ratified.
Item No 47-3.8	**To report PhD students permitted for Semester Withdrawal. The list is placed at Annexure- S** Noted and Ratified.
Item No 47-3.9	**To report PhD Students whose supervisors are added in between their PhD programme. The list is placed at Annexure-T** Noted and Ratified.

Item No 47-3.10	**To report the addition of 4 additional disciplines for M.Tech admission in Metallurgical & Material Engineering** Noted and Ratified.
Item No47-4.0	**Any other item with the permission of the Chair**
Item No 47-4.1	**To consider the recommendation of DPGC/DREC in respect of PhD student Mr. Tanpure Ganesh for two semester withdrawal due to health problem.** Based on the recommendation of the Mechanical Engineering Department, and looking to the hardship faced by the student. The SPGB permitted to treat above 2 semesters as semester withdrawal. However, the student will be required to deposit the fee as per institute rules.
Item No 47-4.2	**To consider the matter regarding NOC of Mr. Shubham Kumar Gupta (2019RCP9049) , PhD scholar, Department of Computer Science and Engineering** The SPGB deferred the discussion & decided to consider the matter on the basis of recommendation of the committee constituted as per Agenda Items 47-2.9.
Item No 47-4.3	**To consider Mohit Kumar Gokhroo (2013RCP9055) for Termination from PhD programme** The SPGB decided to terminate the student as proposed by Department of Computer Science and Engineering.
Item No 47-4.4	**To consider the approval of name of Prof. Bruhadeshwar Bezwada (currently Associate Professor IIT Jammu) as external supervisor of Ms. Shweta Saharan (2015RCP9533)** The SPGB approved the addition of name of Prof. Bruhadeshwar Bezwada (currently Associate Professor IIT Jammu) as external supervisor with effect from 20th July 2017 as proposed by the DPGC, Computer Science & Engineering.
Item No 47-4.5	**To consider the approval of new PG/PhD. course "Gender and Society" as proposed by Department of Humanities and Social Sciences.** SPGB decided to approve the proposal submitted by the Department of Humanities and Social Sciences.

Chairman SPGB

Convenor SPGB

Annexure -I

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर
MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

पंजिका संख्या / FILE NO.

कार्यालय टिप्पणी

Note Sheet

ACADEMIC SECTION

Dated: 31-08-2021

Sub: New PG schemes.

As per the revised PG Curriculum approved in 39th Senate meeting, all the PG schemes have been revised, mostly after the conduct of curriculum workshops.

These revised schemes are attached herewith for your kind perusal and submitted for your approval please.

Associate Dean (PG)

Dean, Academic

31/8/21

– Chairman, Senate.

Malaviya National Institute of Technology Jaipur

Note Sheet

Date 27 Aug 2021

Sub: Allotting course codes for courses of purposed scheme of PG

Ref: Office order no 438 dated 09-08-2021

A committee was constituted to allot course codes for the new PG scheme as per existing guidelines. The recommendation of the committee in the form of policy document is attached herewith.

The committee has also assigned course codes for all the courses as proposed under different PG programme.

Submitted for kind perusal.

27/08/21
(Sumit Khandelwal)

(Ram Dayal)

Anup Malik
(Anup Malik)

(Hari Gyan)

(Yuvraj Singh Rathore)

File please.

→ Dean, Academics
1/9/21

→ AR (Acad)

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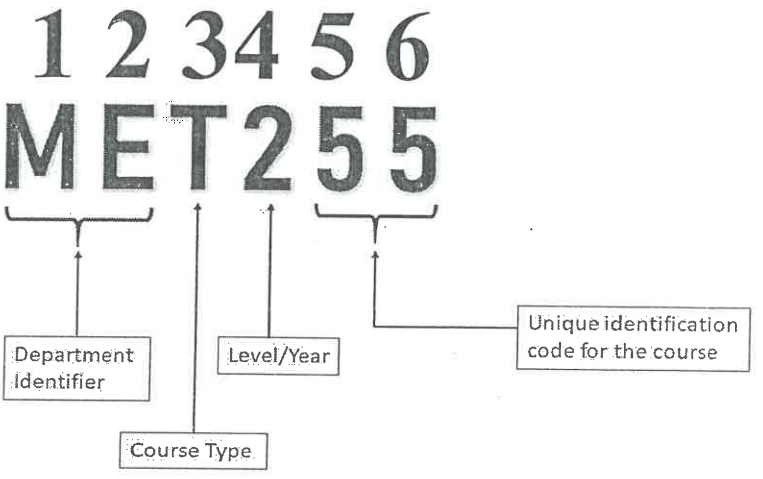
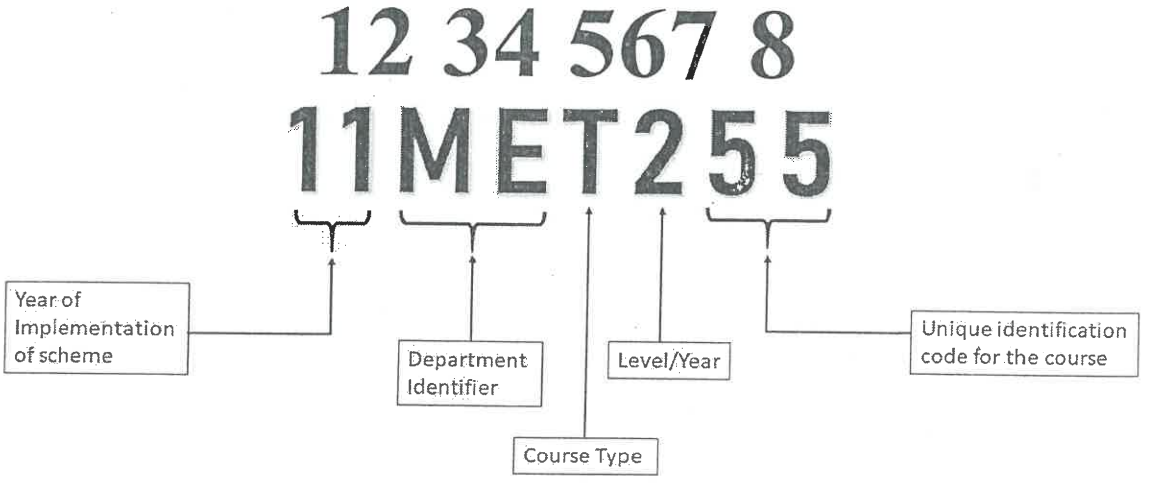
Malaviya National Institute of Technology Jaipur

Scheme for assigning course codes for various courses

Under the current system, each course is denoted by a unique code consisting of three alphabets followed by three numerals (total 6 digits).



It is proposed to upgrade the course code to 8 digits. The description of the eight digits is given below



a) Year of implementation of scheme (YI)

First two digits of the course code shall be numbers which indicate the year of implementation of the scheme. This will enable quick and clear identification of the courses from different scheme. Looking into the implementation of the New Education Policy, it is possible for students to leave study in between and join back at a later date. In such cases the pending courses with respect to a scheme can be easily identified.

1/3

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For the proposed scheme for various M.Tech. programmes, scheduled to be implemented from academic year 2021-22, it is proposed to use 21 at the first two digits of the course code (starting from the left as shown in above figure)

b) Department identifier (DI)

Each department and centre of the Institute offers various courses for undergraduate and post graduate students. 3rd and 4th digit of the course code shall be letters. The academic unit offering a particular course is identified by the department identifier, which is placed at the 3rd and 4th digit of the course code. All the department/centres have been assigned two letter codes as given in table 1.

Table 1: Codes of department identifier

S. No.	Name of the Department/Centre (in alphabetic order)	Department identifier
1	Architecture	AR
2	Centre for energy and environment	EN
3	Chemical Engineering	CH
4	Chemistry	CY
5	Civil Engineering	CE
6	Computer science and engineering	CS
7	Electrical Engineering	EE
8	Electronics and Communication engineering	EC
9	Humanities	HS
10	Management studies	BM
11	Materials research center	MS
12	Mathematics	MA
13	Mechanical Engineering	ME
14	Metallurgical and Materials engineering	MT
15	National centre for disaster mitigation and management	EQ
16	Physics	PH

c) Course type (CT)

5th digit of the course code enables to identify the course type (nature of the course). The codes to be used for various course types are given in table 2.

Table 2: Codes for course types

S. No.	Description of the course	Code
1	Project based courses (e.g. Major/Minor/Mini Research Projects; Dissertation)	D
2	Lecture courses (having minimum 1 lecture hour per week; Other than lecture hours, these courses can have tutorial and/or practical hours also; eg. 3-0-0, 3-1-0, 2-0-2, 2-1-2 etc.)	T
3	Practical and sessionals (courses having only laboratory component, eg. 0-0-2, 0-0-3 etc.)	P
4	Seminar courses	S

5	Summer training (to be graded)	U
6	Internship (6 months duration)	H
7	Internship (12 months duration)	Y
8	MOOC courses	M

d) Level of the course (LC)

The 6th digit of the course code shall be a numeric value which is to be used to identify the level of the course i.e. the year in which it is offered.

Table 3: Level of the course

S. No.	Level	Description
1	100- 400 level courses	Core and elective courses for the UG programmes. These courses cannot be registered by the PG students
2	500 level courses	Core courses offered to I and II semester students of M.Tech./ M.Sc./ MBA programmes Core and elective courses offered to IX and X semester B.Arch students
3	600 level courses	Core courses offered to III and IV semester students of M.Tech./ M.Sc./ MBA programmes Core courses offered to I and II semester M. Plan. students
4	700 level courses	Core courses offered to III and IV semester students of M. Plan.
5	800 to 1000 level courses	Elective courses offered to students of M.Tech./ M.Sc./ MBA/ M.Plan. programmes

e) Unique identification code for the course (UI)

The last two digits of the course code shall be numeric values and will be unique identification code for each course. In order to clearly identify the courses offered to students of different M.tech. programmes offered by same department, it is proposed to assign the unique identification code for a course as per the methodology given below

The core courses for I and II semester M.Tech./M.Plan/MBA/M.Sc. shall be arranged alphabetically for each programme separately (if the department is offering multiple M.Tech. programmes). The unique identification code for the courses shall be assigned starting from 01 (all the courses with unique identification code from 1 to 9 shall have the digit '0' placed before the respective number to convert it into two digit code). If a department is offering multiple M.tech. programmes then the unique identification code for first core course shall start from 01 for the first programme and this shall start from 21, 41, 61, 81 for second, third, fourth and fifth M.Tech. programme respectively. Subsequent courses shall be assigned unique identification code incrementally beyond the first course. The same process shall be repeated for assigning unique identification code for the core courses of III and IV semester M.Tech./M.Plan/MBA/M.Sc.

The elective courses offered to various programmes of the department can be arranged alphabetically and these can be numbered from 01 onwards.

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
			ARCHITECTURE AND PLANNING (URBAN PLANNING)					
1	1	21ART601	Planning History and Theory	CORE	3	2	1	0
2	1	21ARP602	Planning Studio-I	CORE	4	0	0	8
3	1	21ART603	Planning Techniques and Statistical Analysis	CORE	3	2	1	0
4	1	21ART604	Urban Infrastructure Planning	CORE	3	2	1	0
5	2	21ARP605	Planning Studio-II	CORE	4	0	0	8
6	2	21ART606	Research Methodology for Planners	CORE	3	2	1	0
7	2	21ART607	Urban Laws, Governance and Management	CORE	3	2	1	0
8	2	21ART608	Urban Transportation Planning	CORE	3	2	1	0
9	3	21ARD701	Dissertation-I	CORE	6	0	0	6
10	3	21ARP702	Planning Studio-III	CORE	4	0	0	8
11	3	21ARS703	Seminar and Practical Training	CORE	3	0	0	3
12	4	21ARD704	Dissertation-II	CORE	14	0	0	14
13	1	21ART801	Climate Responsive Urban Planning	PE	3	2	1	0
14	1	21ART802	Community-based Planning	PE	3	2	1	0
15	1	21ART803	Culture Sensitive Placemaking for Indian Cities	PE	3	2	1	0
16	1	21ART804	Development Innovations & Finance	PE	3	2	1	0
17	1	21ART805	Energy Planning & Management	PE	3	2	1	0
18	1	21ART806	Geo-spatial Applications for Planners	PE	3	2	1	0
19	1	21ART807	Housing	PE	3	2	1	0
20	1	21ART808	Introduction to Urban Design	PE	3	2	1	0
21	1	21ART809	Land Management and Real Estate Development	PE	3	2	1	0
22	1	21ART810	Smart Cities	PE	3	2	1	0
23	1	21ART811	Spatial Analytics and Computational Techniques for Planners	PE	3	2	1	0
24	1	21ART812	Sustainable Practices and Future Cities	PE	3	2	1	0
25	1	21ART813	Urban Conservation	PE	3	2	1	0
26	1	21ART814	Urban Dynamics	PE	3	2	1	0
27	1	21ART815	Urban Ecology and Environment	PE	3	2	1	0
28	1	21ART816	Urban Risk and Disaster Management	PE	3	2	1	0
29	1	21ART817	Water Sensitive Urban Planning	PE	3	2	1	0
			CENTRE FOR ENERGY AND ENVIRONMENT (RENEWABLE ENERGY)					
30	1	21ENT501	Bioenergy Systems	CORE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
31	1	21ENT502	Photovoltaic Systems	CORE	3	3	0	0
32	1	21ENP503	Renewable Energy Laboratory	CORE	3	0	0	6
33	1	21ENT504	Solar Thermal Systems	CORE	3	3	0	0
34	2	21ENT505	Energy Economics and Policies	CORE	3	3	0	0
35	2	21ENT506	Energy Management and Audit	CORE	3	3	0	0
36	3	21END601	Dissertation-I	CORE	9	0	0	18
37	3	21ENS602	Seminar	CORE	3	0	0	6
38	4	21END603	Dissertation-II	CORE	12	0	0	24
39	1	21ENT801	Advanced Photovoltaic Systems	PE	3	3	0	0
40	1	21ENT802	Energy Efficiency in Buildings	PE	3	3	0	0
41	1	21ENT803	Energy Simulation	PE	3	1	0	4
42	1	21ENT804	Energy Storage Technology	PE	3	3	0	0
43	1	21ENT805	Hydro Energy Systems	PE	3	3	0	0
44	1	21ENT806	Hydrogen Energy Technology	PE	3	3	0	0
45	1	21ENT807	Modeling and Optimization of Energy Systems	PE	3	3	0	0
46	1	21ENT808	Renewable Integration Markets	PE	3	3	0	0
47	1	21ENT809	Smart Grid Systems	PE	3	3	0	0
48	1	21ENT810	Solar Passive Heating and Cooling	PE	3	3	0	0
49	1	21ENT811	Wind Energy Systems	PE	3	3	0	0

CHEMICAL ENGINEERING (CHEMICAL ENGINEERING)

50	1	21CHT501	Advanced Chemical Engineering Thermodynamics	CORE	3	3	0	0
51	1	21CHT502	Advanced Transport Phenomena	CORE	3	3	0	0
52	1	21CHT503	Chemical Reactor Analysis	CORE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
53	2	21CHT504	Advanced Mass Transfer	CORE	3	3	0	0
54	2	21CHT505	Computational Methods in Chemical Engineering	CORE	3	3	0	0
55	2	21CHT506	Modelling and Simulation	CORE	3	3	0	0
56	3	21CHD601	Dissertation-I	CORE	8	-	-	-
57	3	21CHS602	Seminar	CORE	2	-	-	-
58	4	21CHD603	Dissertation-II	CORE	14	-	-	-
59	1	21CHT801	Advanced Separation Process	PE	3	3	0	0
60	1	21CHT802	Chemical Process Safety and Management	PE	3	3	0	0
61	1	21CHT803	Introduction to Soft Matter	PE	3	3	0	0
62	1	21CHT804	Mathematical Methods in Chemical Engineering	PE	3	3	0	0
63	1	21CHT805	Molecular Modeling of Chemical Systems	PE	3	3	0	0
64	1	21CHT806	Optimization of Chemical Processes	PE	3	3	0	0
65	1	21CHT807	Petroleum Refining Engineering	PE	3	3	0	0
66	1	21CHT808	Process integration & Intensification	PE	3	3	0	0
67	1	21CHT809	Waste to Energy Conversion	PE	3	3	0	0
68	2	21CHT810	Advanced Heat Transfer	PE	3	3	0	0
69	2	21CHT811	Advanced Process Control	PE	3	3	0	0
70	2	21CHT812	Applied Statistics for Experimenters	PE	3	3	0	0
71	2	21CHT813	Bioprocess Engineering	PE	3	3	0	0
72	2	21CHT814	CFD Analysis in Chemical Engineering	PE	3	3	0	0
73	2	21CHT815	Industry 4.0	PE	3	3	0	0
74	2	21CHT816	Multiphase Reactors	PE	3	3	0	0
75	2	21CHT817	Pollution Control Systems	PE	3	3	0	0
76	2	21CHT818	Statistical Thermodynamics	PE	3	3	0	0

CHEMISTRY (CHEMISTRY)

77	1	21CYP501	(i) Inorganic Chemistry Lab-I (ii) Organic Chemistry Lab-I (iii) Physical Chemistry Lab-I (iv) Analytical Chemistry Lab-I	CORE	8	0	0	16
78	1	21CYT502	Advanced Inorganic Chemistry	CORE	4	3	1	0
79	1	21CYT503	Analytical Chemistry	CORE	4	3	1	0
80	1	21CYT504	Organic Chemistry	CORE	4	3	1	0
81	1	21CYT505	Quantum Chemistry	CORE	4	3	1	0
82	2	21CYP506	(i) Inorganic Chemistry Lab-II (ii) Organic Chemistry Lab-II (iii) Physical Chemistry Lab-II (iv) Analytical Chemistry Lab-II	CORE	8	0	0	16
83	2	21CYT507	Advanced Organic Chemistry	CORE	4	3	1	0
84	2	21CYT508	Bonding in Main Group Elements and Transition Metal Organometallic Chemistry	CORE	4	3	1	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
85	2	21CYT509	Classical and Statistical Thermodynamics	CORE	4	3	1	0
86	2	21CYT510	Spectroscopy and its Applications	CORE	4	3	1	0
87	3	21CYD601	Dissertation – I	CORE	6	-	-	-
88	4	21CYD602	Dissertation – II	CORE	10	-	-	-
89	1	21CYT801	Chemistry for Renewable Energy	Open Elective	3	3	0	0
90	1	21CYT802	Environmental Chemistry	Open Elective	3	3	0	0
91	1	21CYT803	Introduction to Density Functional Theory	Open Elective	3	3	0	0
92	1	21CYT804	Atmospheric Chemistry	Open Elective	3	3	0	0
93	1	21CYT805	Introduction to Astrochemistry	Open Elective	3	3	0	0
94	1	21CYT806	Electrochemical Energy Storage Systems	Open Elective	3	3	0	0
95	1	21CYT807	Photo-Inorganic Chemistry	PE	3	3	0	0
96	1	21CYT808	Organometallics and Catalysis	PE	3	3	0	0
97	1	21CYT809	Supramolecular Chemistry	PE	3	3	0	0
98	1	21CYT810	Polymer Chemistry	PE	3	3	0	0
99	1	21CYT811	Organometallic Chemistry of Main Group Elements	PE	3	3	0	0
100	1	21CYT812	Bio-Inorganic Chemistry	PE	3	3	0	0
101	1	21CYT813	Symmetry and Group Theory	PE	3	3	0	0
102	1	21CYT814	Organic Synthesis	PE	3	3	0	0
103	1	21CYT815	Applied Biocatalysis (Enzymes)	PE	3	3	0	0
104	1	21CYT816	Heterocyclic Chemistry	PE	3	3	0	0
105	1	21CYT817	Chemistry of Natural Products	PE	3	3	0	0
106	1	21CYT818	Pharmaceutical Chemistry	PE	3	3	0	0
107	1	21CYT819	Cell Structure & Biomolecules	PE	3	3	0	0
108	1	21CYT820	Biochemistry	PE	3	3	0	0
109	1	21CYT821	Physical Organic Chemistry	PE	3	3	0	0
110	1	21CYT822	Electrochemistry: Ionics and Electrodics	PE	3	3	0	0
111	1	21CYT823	Solid State Chemistry - Fundamentals and Applications	PE	3	3	0	0
112	1	21CYT824	Laser Spectroscopy: Theory and Applications	PE	3	3	0	0
113	1	21CYT825	Advanced Analytical Chemistry	PE	3	3	0	0
114	1	21CYT826	Dyes and Pigments	PE	3	3	0	0
115	1	21CYT827	Molecular Spectroscopy	PE	3	3	0	0
116	1	21CYT828	Concepts in Chemical Kinetics and Dynamics	PE	3	3	0	0
117	1	21CYT829	Green and Industrial Organic Chemistry	PE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
118	1	21CET501	Hazard, Vulnerability and Risk Assessment	CORE	3	3	0	0
119	1	21CET502	Natural and Manmade Disasters	CORE	3	3	0	0
120	1	21CEP503	Spatial Data Analysis Laboratory	CORE	1	0	0	2
121	1	21CET504	Spatial Data Collection and Analysis	CORE	3	3	0	0
122	2	21CET505	Climate Variability and Adaptation	CORE	3	3	0	0
123	2	21CET506	Geoinformatics and Its Applications	CORE	3	3	0	0
124	2	21CEP507	Geoinformatics Laboratory	CORE	1	0	0	2
125	2	21CET508	Rehabilitation, Reconstruction and Recovery	CORE	3	3	0	0
126	3	21CED601	Dissertation	CORE	8	0	0	16
127	3	21CES602	Seminar/Minor Research Project	CORE	4	0	0	8
128	4	21CED603	Dissertation	CORE	12	0	0	24
129	1	21CET801	Disaster Resilient Structures and Retrofitting	PE	3	3	0	0
130	1	21CET802	Disaster Response and Preparedness	PE	2	2	0	0
131	1	21CET803	Disasters and Special Structures	PE	3	3	0	0
132	1	21CET804	Geohazards and Mitigation Measures	PE	2	2	0	0
133	1	21CET805	Hydrometeorological Disasters, Adaptation and Mitigation	PE	3	3	0	0
134	1	21CET806	Introduction to Sustainable Development	PE	2	2	0	0
135	1	21CET807	Lifeline Services and Disasters	PE	3	3	0	0
136	1	21CET808	Socio-Economics of Disaster and Disaster Finance	PE	2	2	0	0

(ENVIRONMENTAL ENGINEERING)

137	1	21CET521	Air and Noise Pollution	CORE	3	3	0	0
138	1	21CET522	Biological Processes and Environmental Applications	CORE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
139	1	21CEP523	Environmental Laboratory	CORE	1	0	0	2
140	1	21CET524	Physicochemical Principles and Processes	CORE	3	3	0	0
141	2	21CET525	Environmental Impact Assessment	CORE	3	3	0	0
142	2	21CET526	Environmental Statistics and Modeling	CORE	3	3	0	0
143	2	21CEP527	Simulation Laboratory	CORE	1	0	0	2
144	2	21CET528	Solid and Hazardous Waste Management	CORE	3	3	0	0
145	3	21CED621	Dissertation	CORE	8	0	0	16
146	3	21CES622	Seminar/ Minor Research Project	CORE	4	0	0	8
147	4	21CED623	Dissertation	CORE	12	0	0	24
148	1	21CET809	Advanced Water and Wastewater Treatment	PE	2	2	0	0
149	1	21CET810	Building and Environment	PE	3	3	0	0
150	1	21CET811	Design of Water and Wastewater Systems	PE	2	2	0	0
151	1	21CET812	Environment and Health	PE	3	3	0	0
152	1	21CET813	Environmental Systems Modeling	PE	2	2	0	0
153	1	21CET814	Industrial Pollution Prevention and Treatment	PE	2	2	0	0
154	1	21CET815	Landfill Engineering	PE	2	2	0	0
155	1	21CET816	Life cycle and Circularity Concepts for Engineers	PE	3	2	0	2
156	1	21CET817	Management in WATSAN Sector	PE	3	3	0	0
157	1	21CET818	Operation Research Methods & Project Economics	PE	3	3	0	0

(STRUCTURAL ENGINEERING)

158	1	21CET541	Advanced Structural Analysis	CORE	4	4	0	0
159	1	21CET542	Concrete Technology	CORE	3	3	0	0
160	1	21CET543	Design of Advanced Concrete Structures	CORE	4	4	0	0
161	2	21CET544	Finite Element Method	CORE	3	3	0	0
162	2	21CET545	Plate and Shells	CORE	3	3	0	0
163	2	21CET546	Structural Dynamics	CORE	3	3	0	0
164	3	21CED641	Dissertation	CORE	8	0	0	16
165	3	21CES642	Seminar/Minor Research Project	CORE	4	0	0	8
166	4	21CED643	Dissertation	CORE	12	0	0	24
167	1	21CET819	Advance Solid Mechanics	PE	3	3	0	0
168	1	21CET820	Advanced Foundation Engineering	PE	3	3	0	0
169	1	21CET821	Bridge Engineering	PE	3	3	0	0
170	1	21CET822	Computational Methods	PE	3	3	0	0
171	1	21CET823	Design of Composite Structures	PE	3	3	0	0
172	1	21CET824	Earthquake Engineering	PE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
173	1	21CET825	Ground Improvement Techniques	PE	3	3	0	0
174	1	21CET826	Prestressed Structures	PE	3	3	0	0
175	1	21CET827	Soil Structure Interaction	PE	3	3	0	0
176	1	21CEP828	Structural Lab	PE	1	0	0	2
177	1	21CET829	Structural Optimization	PE	3	3	0	0
178	1	21CET830	Sustainable Materials and Construction	PE	3	3	0	0
179	1	21CEP831	Sustainable Materials and Construction Lab*	PE	1	0	0	2
180	1	21CET832	Tall Buildings	PE	3	3	0	0

(TRANSPORTATION ENGINEERING)

181	1	21CET561	Highway Materials	CORE	3	3	0	0
182	1	21CET562	Mathematics for Transportation Engineering	CORE	3	3	0	0
183	1	21CET563	Pavement Analysis & Design	CORE	3	3	0	0
184	2	21CET564	Highway Sub-Grade and Foundation Analysis	CORE	3	3	0	0
185	2	21CET565	Intersection Analysis and Design	CORE	3	3	0	0
186	2	21CET566	Transportation Planning	CORE	3	3	0	0
187	3	21CED661	Dissertation	CORE	8	---	---	16
188	3	21CES662	Seminar/Minor Research Project	CORE	4	---	---	8
189	4	21CED663	Dissertation	CORE	12	---	---	24
190	1	21CET833	Highway Construction	PE	3	3	0	0
191	1	21CEP834	Highway Material Testing Laboratory	PE	1	0	0	2
192	1	21CET835	Low Cost Roads	PE	3	3	0	0
193	1	21CET836	Pavement Maintenance Management System	PE	3	3	0	0
194	1	21CET837	Traffic and Environment	PE	3	3	0	0
195	1	21CET838	Traffic Engineering & Field Studies	PE	3	3	0	0
196	1	21CEP839	Traffic Engineering Lab	PE	1	0	0	2
197	1	21CET840	Traffic Flow Modeling and Simulation	PE	3	3	0	0
198	1	21CET841	Urban Transportation System	PE	3	3	0	0

(WATER RESOURCES ENGINEERING)

199	1	21CET581	Design of Water Resources Structures	CORE	3	3	0	0
200	1	21CET582	Groundwater Hydrology	CORE	3	3	0	0
201	1	21CET583	Physical and Stochastic Hydrology	CORE	3	3	0	0
202	2	21CET584	Geo-informatics and its Applications	CORE	3	3	0	0
203	2	21CET585	Introduction to CFD	CORE	3	3	0	0
204	2	21CET586	Watershed Development and Management	CORE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
205	3	21CED681	Dissertation	CORE	8	0	0	16
206	3	21CES682	Seminar/ Minor Research Project	CORE	4	0	0	8
207	4	21CED683	Dissertation	CORE	12	0	0	24
208	1	21CET842	Climate Variability and Adaptation	PE	3	3	0	0
209	1	21CET843	Contaminant Hydrogeology	PE	3	3	0	0
210	1	21CEP844	Geo-informatics Laboratory	PE	1	0	0	2
211	1	21CET845	Hydro-meteorological Disasters, Adaptation and Mitigation	PE	3	3	0	0
212	1	21CEP846	Spatial Data Analysis Laboratory	PE	1	0	0	2
213	1	21CET847	Spatial Data Collection and Analysis	PE	3	3	0	0
214	1	21CET848	Urban Water Management	PE	3	3	0	0
215	1	21CET849	Water Resources Field Methods	PE	2	2	0	0
216	1	21CET850	Water Resources System	PE	2	2	0	0
217	1	21CET851	Water Resources System Modelling	PE	2	2	0	0

COMPUTER SCIENCE AND ENGINEERING
(COMPUTER ENGINEERING)

218	1	21CST501	Advanced Data Structures and Algorithms	CORE	3	3	0	0
219	1	21CST502	Advanced Databases	CORE	3	3	0	0
220	1	21CST503	Parallel and Distributed Computing	CORE	4	3	0	2
221	1	21CSP504	Programming Lab-1	CORE	2	0	1	2
222	2	21CSP505	Design Lab /Computing Tools	CORE	2	0	1	2
223	2	21CSP506	Programming Lab-2	CORE	2	0	1	2
224	2	21CST507	Research Methodology	CORE	2	2	0	0
225	3	21CSD601	Dissertation – 1	CORE	8	0	0	16
226	3	21CSP602	Literature Review	CORE	2	0	1	2
227	3	21CSS603	Technical Documentation and Presentation	CORE	2	0	1	2
228	4	21CSD604	Dissertation – 2	CORE	12	0	0	24
229	1	21CST801	5G Technology	PE	3	3	0	0
230	1	21CST802	Advanced Computer Networks	PE	3	3	0	0
231	1	21CST803	Advances in Compiler Design	PE	3	3	0	0
232	1	21CST804	Android Programming	PE	3	3	0	0
233	1	21CST805	Big Data Analytics	PE	3	3	0	0
234	1	21CST806	Computer Vision	PE	3	3	0	0
235	1	21CST807	Cyber Physical Systems	PE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
236	1	21CST808	Data Analytics	PE	3	3	0	0
237	1	21CST809	Data Compression	PE	3	3	0	0
238	1	21CST810	Data Mining	PE	3	3	0	0
239	1	21CST811	Data Visualization	PE	3	3	0	0
240	1	21CST812	Deep Learning	PE	3	3	0	0
241	1	21CST813	Department Elective – 1	PE	3	3	0	0
242	1	21CST814	Department Elective – 2	PE	3	3	0	0
243	1	21CST815	Distributed Systems	PE	3	3	0	0
244	1	21CST816	E-Commerce	PE	3	3	0	0
245	1	21CST817	Hardware Software Codesign	PE	3	3	0	0
246	1	21CST818	Image Analysis	PE	3	3	0	0
247	1	21CST819	Information Retrieval	PE	3	3	0	0
248	1	21CST820	Internet of Things	PE	3	3	0	0
249	1	21CST821	Machine Learning	PE	3	3	0	0
250	1	21CST822	Natural Language Processing	PE	3	3	0	0
251	1	21CST823	Nature Inspired Algorithms	PE	3	3	0	0
252	1	21CST824	Network on Chip	PE	3	3	0	0
253	1	21CST825	Network Performance Modelling	PE	3	3	0	0
254	1	21CST826	Neural Networks	PE	3	3	0	0
255	1	21CST827	Parallel Processing & Algorithms	PE	3	3	0	0
256	1	21CST828	Parallelizing Compiler	PE	3	3	0	0
257	1	21CST829	Pattern Recognition	PE	3	3	0	0
258	1	21CST830	Quantum Computing	PE	3	3	0	0
259	1	21CST831	Real Time Systems	PE	3	3	0	0
260	1	21CST832	Robotics and Control	PE	3	3	0	0
261	1	21CST833	Selected Topics in Computing	PE	3	3	0	0
262	1	21CST834	Selected Topics in Operating System	PE	3	3	0	0
263	1	21CST835	Social Media Mining	PE	3	3	0	0
264	1	21CST836	Social Network Analysis	PE	3	3	0	0
265	1	21CST837	Software Project Management	PE	3	3	0	0
266	1	21CST838	Software Testing and Validation	PE	3	3	0	0
267	1	21CST839	System on Chip	PE	3	3	0	0
268	1	21CST840	VLSI Algorithms	PE	3	3	0	0
269	1	21CST841	Wireless Sensor Networks	PE	3	3	0	0
270	2	21CST842	Department Elective – 3	PE	3	3	0	0
271	2	21CST843	Department Elective – 4	PE	3	3	0	0
272	2	21CST844	Department Elective – 5	PE	3	3	0	0
273	2	21CST845	Department Elective – 6	PE	3	3	0	0

(COMPUTER ENGINEERING AND INFORMATION SECURITY)

274	1	21CST521	Advanced Data Structures and Algorithms	CORE	3	3	0	0
275	1	21CST522	Computer and Network Security	CORE	4	3	0	2

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
276	1	21CST523	Cryptography	CORE	3	3	0	0
277	1	21CSP524	Programming Lab-1	CORE	2	0	1	2
278	2	21CSP525	Design Lab	CORE	2	0	1	2
279	2	21CST526	Research Methodology	CORE	2	2	0	0
280	2	21CSP527	Security Tools Lab	CORE	2	0	1	2
281	3	21CSD621	Dissertation – 1	CORE	8	0	0	16
282	3	21CSP622	Literature Review	CORE	2	0	1	2
283	3	21CSS623	Technical Documentation and Presentation	CORE	2	0	1	2
284	4	21CSD624	Dissertation – 2	CORE	12	0	0	24
285	1	21CST846	Advanced Computer Networks	PE	3	3	0	0
286	1	21CST847	Android Programming	PE	3	3	0	0
287	1	21CST848	Biometrics	PE	3	3	0	0
288	1	21CST849	Blockchain Technologies	PE	3	3	0	0
289	1	21CST850	Cloud Security	PE	3	3	0	0
290	1	21CST851	Cyber Security	PE	3	3	0	0
291	1	21CST852	Data Compression	PE	3	3	0	0
292	1	21CST853	Deep Learning	PE	3	3	0	0
293	1	21CST854	Department Elective – 1	PE	3	3	0	0
294	1	21CST855	Department Elective – 2	PE	3	3	0	0
295	1	21CST856	Digital Forensics	PE	3	3	0	0
296	1	21CST857	Embedded System Security	PE	3	3	0	0
297	1	21CST858	Internet of Things	PE	3	3	0	0
298	1	21CST859	Intrusion Detection	PE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
299	1	21CST860	Machine Learning	PE	3	3	0	0
300	1	21CST861	Nature Inspired Algorithms	PE	3	3	0	0
301	1	21CST862	Network Performance Modelling	PE	3	3	0	0
302	1	21CST863	Pattern Recognition	PE	3	3	0	0
303	1	21CST864	Public Key Infrastructure and Trust Management	PE	3	3	0	0
304	1	21CST865	Quantum Cryptography	PE	3	3	0	0
305	1	21CST866	Security Analysis of Protocols	PE	3	3	0	0
306	1	21CST867	Selected Topics in Cryptography	PE	3	3	0	0
307	1	21CST868	Social Network Analysis	PE	3	3	0	0
308	1	21CST869	Software Testing and Validation	PE	3	3	0	0
309	1	21CST870	VLSI Algorithms	PE	3	3	0	0
310	1	21CST871	Wireless Security	PE	3	3	0	0
311	2	21CST872	Department Elective – 3	PE	3	3	0	0
312	2	21CST873	Department Elective – 4	PE	3	3	0	0
313	2	21CST874	Department Elective – 5	PE	3	3	0	0
314	2	21CST875	Department Elective – 6	PE	3	3	0	0

ELECTRICAL ENGINEERING (POWER ELECTRONICS AND DRIVES)

315	1	21EET501	Electric Drives and their Control	CORE	3	2	1	0
316	1	21EET502	Intelligent Control Techniques	CORE	3	2	1	0
317	1	21EET503	Power Conversion Techniques	CORE	3	2	1	0
318	1	21EEP504	Power Electronics & Drives Lab	CORE	3	0	0	6
319	2	21EET505	Industrial Control Electronics	CORE	3	2	1	0
320	2	21EET506	Switched Mode Power Conversion	CORE	3	2	1	0
321	3	21EED601	Dissertation	CORE	7			
322	3	21EES602	Seminar	CORE	3			

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
323	4	21EED603	Dissertation	CORE	14			
324	1	21EET801	Application of Power Electronics in Smart Grid	PE				
325	1	21EET802	Applications of Power Electronics in Power Systems	PE				
326	1	21EET803	Computer Networks	PE				
327	1	21EET804	Digital Controller Application in Power Converters	PE				
328	1	21EET805	Digital Signal Processing &Applications	PE				
329	1	21EET806	EHV AC/DC Transmission System	PE				
330	1	21EET807	Embedded System Design	PE				
331	1	21EET808	Flexible AC Transmission Systems	PE				
332	1	21EET809	HVDC Transmission	PE				
333	1	21EET810	Modeling & Simulation of Power Electronic Systems	PE				
334	1	21EET811	Optimization Algorithms	PE				
335	2	21EET812	Advanced Electrical Drives	PE				
336	2	21EET813	Advanced Theory and Analysis of AC Machines	PE				
337	2	21EET814	Advances in Power Transmission & Distribution	PE				
338	2	21EET815	Excitation of Synchronous Machines and their Control	PE				
339	2	21EET816	Integrated Energy Systems	PE				
340	2	21EET817	Modern Control Theory	PE				
341	2	21EET818	Power System Quality	PE				
342	2	21EET819	PWM Converters and Applications	PE				
343	2	21EET820	Renewable Power Generation and Control	PE				

(POWER SYSTEMS)

344	1	21EET521	Power System Analysis	CORE	3	2	1	0
345	1	21EET522	Advanced Power System Protection	CORE	3	2	1	0
346	1	21EET523	Power Electronics	CORE	3	2	1	0
347	1	21EEP524	Power System Lab	CORE	3	0	0	6
348	2	21EET525	Power System Stability	CORE	3	2	1	0
349	2	21EET526	Power System Optimization and Control	CORE	3	2	1	0
350	3	21EES621	Seminar	CORE	3			
351	3	21EED622	Dissertation	CORE	7			
352	4	21EED623	Dissertation	CORE	14			
353	1	21EET821	HVDC Transmission	PE	3	3	0	0
354	1	21EET822	Computer Methods in Power Systems	PE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
355	1	21EET823	Power System Transients and H.V. Engineering	PE	3	3	0	0
356	1	21EET824	Power System Instrumentation	PE	3	3	0	0
357	1	21EET825	EHV AC/DC Transmission System	PE	3	3	0	0
358	1	21EET826	Electric Drives and their Control	PE	3	3	0	0
359	1	21EET827	Modeling & Simulation of Power Electronic Systems	PE	3	3	0	0
360	1	21EET828	Flexible AC Transmission Systems	PE	3	3	0	0
361	2	21EET829	Advanced Circuit Analysis and Design	PE	3	3	0	0
362	2	21EET830	Integrated Energy Systems	PE	3	3	0	0
363	2	21EET831	Power System Planning & Reliability	PE	3	3	0	0
364	2	21EET832	Economics & Planning of Energy Systems	PE	3	3	0	0
365	2	21EET833	Advances in Power Transmission & Distribution	PE	3	3	0	0
366	2	21EET834	AI Application to Power Systems	PE	3	3	0	0
367	2	21EET835	Modern Control Theory	PE	3	3	0	0
368	2	21EET836	Excitation of Synchronous Machines and Their Control	PE	3	3	0	0

(POWER SYSTEMS MANAGEMENT)

369	1	21EET541	Optimal Operation and Control of Power Systems	CORE	3	2	1	0
370	1	21EET542	Power Markets, Economics and System Operation	CORE	3	2	1	0
371	1	21EET543	Power System Restructuring and Deregulation	CORE	3	2	1	0
372	1	21EEP544	Power Systems Management Laboratory	CORE	3	0	0	6
373	2	21EET545	Distributed Energy Integration	CORE	3	2	1	0
374	2	21EET546	Smart Energy Management Systems	CORE	3	2	1	0
375	3	21EED641	Dissertation	CORE	7			
376	3	21EES642	Seminar	CORE	3			
377	4	21EED643	Dissertation	CORE	14	0	0	28
378	1	21EET837	Grid Instrumentation and Communication Systems	PE	3	3	0	0
379	1	21EET838	Electricity Trading and Risk Management	PE	3	3	0	0
380	1	21EET839	Electric Power Project Evaluation and Pricing	PE	3	3	0	0
381	1	21EET840	Risk Assessment of Power Systems	PE	3	3	0	0
382	1	21EET841	Modelling and Planning of Energy Systems	PE	3	3	0	0
383	1	21EET842	Sustainable Energy Sources	PE	3	3	0	0
384	1	21EET843	Service Quality Management	PE	3	3	0	0
385	2	21EET844	Machine Learning and Data Analytics	PE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
386	2	21EET845	AI Application to Power Systems Management	PE	3	3	0	0
387	2	21EET846	Energy Policy, Governance and Regulations	PE	3	3	0	0
388	2	21EET847	Power System Planning and Reliability	PE	3	3	0	0
389	2	21EET848	Power Distribution Systems	PE	3	3	0	0
390	2	21EET849	Power System Quality	PE	3	3	0	0
391	2	21EET850	Stochastic Systems, Optimization and Control	PE	3	3	0	0
392	2	21EET851	Power System Analysis	PE	3	3	0	0
393	2	21EET852	Computer Methods in Power Systems	PE	3	3	0	0
394	2	21EET853	Quantitative Techniques	PE	3	3	0	0

ELECTRONICS AND COMMUNICATION ENGINEERING (ELECTRONICS & COMMUNICATION ENGINEERING)

395	1	21ECT501	Advanced Digital Communication Systems	CORE	3	3	0	0
396	1	21ECT502	Advanced Microwave Engineering	CORE	3	3	0	0
397	1	21ECP503	Communication Lab-I	CORE	3	0	0	3
398	1	21ECT504	Mathematical Modelling and Simulation for Communication System	CORE	2	2	0	0
399	2	21ECT505	Advanced Antenna Engineering	CORE	3	3	0	0
400	2	21ECT506	Advanced Mobile and Wireless Networking	CORE	3	3	0	0
401	2	21ECP507	Communication Lab-II	CORE	2	0	0	2
402	3	21ECD601	Dissertation	CORE	8	0	0	16
403	3	21ECR602	Minor Project	CORE	4	0	0	8
404	4	21ECD603	Dissertation	CORE	12	0	0	24
405	1	21ECT801	Adaptive Signal Processing	PE	3	3	0	0
406	1	21ECT802	Advanced Digital Signal & Image Processing	PE	3	3	0	0
407	1	21ECT803	Advanced Error Control Codes	PE	3	3	0	0
408	1	21ECT804	Advanced Networking analysis	PE	3	3	0	0
409	1	21ECT805	Advanced Optical Communication Systems & Networks	PE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
410	1	21ECT806	Advanced Photonic Devices and Components	PE	3	3	0	0
411	1	21ECT807	Advanced topics in Communication	PE	3	2	0	2
412	1	21ECT808	Computational Electromagnetics	PE	3	3	0	0
413	1	21ECT809	Computer Communication & Networking	PE	3	3	0	0
414	1	21ECT810	Cryptography	PE	3	3	0	0
415	1	21ECT811	Design of MIC's & MMIC's	PE	3	3	0	0
416	1	21ECT812	EMI/EMC	PE	3	3	0	0
417	1	21ECT813	Estimation and Detection	PE	3	3	0	0
418	1	21ECT814	Multirate Signal Processing	PE	3	3	0	0
419	1	21ECT815	Optical Codes and Applications	PE	3	3	0	0
420	1	21ECT816	Optical Codes and Applications	PE	3	3	0	0
421	1	21ECT817	Optical Networks	PE	3	3	0	0
422	1	21ECT818	Photonic Integrated Devices and Systems	PE	3	3	0	0
423	1	21ECT819	Photonic Switching	PE	3	3	0	0
424	1	21ECT820	Satellite Communication and Radar Engg.	PE	3	3	0	0
425	1	21ECT821	Short Range Wireless Communication Technologies	PE	3	3	0	0
426	1	21ECT822	Smart and Phased Array Antenna Design	PE	3	3	0	0
427	1	21ECT823	Special Modules in ECE - 1(over and above the scheme)	PE	1	1	0	0
428	1	21ECT824	Special Modules in ECE - 2(over and above the scheme)	PE	1	1	0	0
429	1	21ECT825	Special Modules in ECE - 3(over and above the scheme)	PE	1	1	0	0
430	1	21ECT826	Special Modules in ECE– 4(over and above the scheme)	PE	1	1	0	0
431	1	21ECT827	Special Modules in WOC - 1(over and above the scheme)	PE	1	1	0	0
432	1	21ECT828	Special Modules in WOC - 2(over and above the scheme)	PE	1	1	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
433	1	21ECT829	Special Modules in WOC - 3(over and above the scheme)	PE	1	1	0	0
434	1	21ECT830	Special Modules in WOC– 4(over and above the scheme)	PE	1	1	0	0
435	1	21ECT831	Technical documentation	PE	1	0	0	2
436	1	21ECT832	Telecomm. Technology & management	PE	3	3	0	0
437	1	21ECT833	VLSI signal processing architectures	PE	3	3	0	0
438	1	21ECT834	Wireless Sensor Networks	PE	3	3	0	0

(EMBEDDED SYSTEMS)

439	1	21ECT521	Advanced Microcomputer Systems & Interfacing	CORE	3	3	0	0
440	1	21ECT522	Data Structures & Algorithms	CORE	3	3	0	0
441	1	21ECP523	Hardware Systems Lab	CORE	1.5	0	0	3
442	1	21ECT524	Reduced order Modeling, Optimization & Machine intelligence	CORE	2	2	0	0
443	1	21ECP525	Software Systems lab	CORE	1.5	0	0	3
444	2	21ECT526	Computer vision	CORE	3	3	0	0
445	2	21ECD527	Dissertation	CORE				
446	2	21ECP528	System Design Lab	CORE	3	0	0	6
447	2	21ECT529	Technical Documentation	CORE	1	0	0	2
448	3	21ECD621	Dissertation	CORE	6	0	0	12
449	3	21ECD622	Minor Project (Research Project)%	CORE	4	0	0	8
450	4	21ECD623	Dissertation	CORE	12	0	0	24
451	1	21ECT835	Adaptive Signal Processing	PE	3	3	0	0
452	1	21ECT836	Advance Computer Architecture	PE	3	3	0	0
453	1	21ECT837	Advanced Digital Signal & Image Processing	PE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
454	1	21ECT838	Advanced Embedded software design	PE	3	3	0	0
455	1	21ECT839	CAD Algorithms for Synthesis of VLSI Systems	PE	3	3	0	0
456	1	21ECT840	Computer Arithmetic & Micro-architecture Design	PE	3	3	0	0
457	1	21ECT841	Design of Asynchronous Sequential Circuits	PE	3	3	0	0
458	1	21ECT842	Digital System Design & FPGAs	PE	3	3	0	0
459	1	21ECT843	Embedded Intelligent Systems	PE	3	3	0	0
460	1	21ECT844	Embedded SoC Design	PE	3	3	0	0
461	1	21ECT845	Formal Verification of Digital Hardware & Embedded Software	PE	3	3	0	0
462	1	21ECT846	FPGA's Physical Design	PE	3	3	0	0
463	1	21ECT847	Graph Algorithms & Combinatorial optimization	PE	3	3	0	0
464	1	21ECT848	Hardware Description Language	PE	1	1	0	0
465	1	21ECT849	Internet of Things (IoE) & IIoT	PE	3	3	0	0
466	1	21ECT850	Language to support Simulation/verification	PE	1	1	0	0
467	1	21ECT851	Languages for (i) Hardware Description, (ii) Scripting and (iii) Simulation/verification;	PE	3	3	0	0
468	1	21ECT852	Mathematical Methods & Techniques for ECE Technologists-II	PE	3	3	0	0
469	1	21ECT853	Medical Engineering & Systems	PE	3	3	0	0
470	1	21ECT854	Memory Design & Testing	PE	3	3	0	0
471	1	21ECT855	Micro-& Nano-electro-mechanical Systems (MEMS & NEMS)	PE	3	3	0	0
472	1	21ECT856	Modeling & Simulation for Communication Engineering	PE	2	2	0	0
473	1	21ECT857	Modeling, Optimization & Transforms	PE	2	2	0	0
474	1	21ECT858	Parallel & Distributed Systems	PE	3	3	0	0
475	1	21ECT859	Pattern Analysis & Machine intelligence	PE	3	3	0	0
476	1	21ECT860	Probabilistic Machine Learning & AI	PE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
477	1	21ECT861	Quantum Computing	PE	3	3	0	0
478	1	21ECT862	RF Integrated Circuits	PE	3	3	0	0
479	1	21ECT863	RF MEMS	PE	3	3	0	0
480	1	21ECT864	Scripting Language	PE	1	1	0	0
481	1	21ECT865	Special Modules in Embedded Systems Design-I	PE	1	1	0	0
482	1	21ECT866	Special Modules in Embedded Systems Design-II	PE	1	1	0	0
483	1	21ECT867	Special Modules in Embedded Systems Design-III	PE	1	1	0	0
484	1	21ECT868	Special Modules in Embedded Systems Design-IV	PE	1	1	0	0
485	1	21ECT869	System Level Design & Modeling	PE	3	3	0	0
486	1	21ECT870	VLSI Signal Processing Architectures	PE	3	3	0	0
487	1	21ECT871	VLSI Testing & Testability	PE	3	3	0	0
488	1	21ECT872	Wireless Sensor Networks	PE	3	3	0	0

(VLSI DESIGN)

489	1	21ECT541	Advanced Semiconductor Devices	CORE	3	3	0	0
490	1	21ECT542	Analog IC Design	CORE	3	3	0	0
491	1	21ECT543	Digital IC Design	CORE	3	3	0	0
492	1	21ECT544	Reduced order Modeling, Optimization & Machine intelligence	CORE	2	2	0	0
493	1	21ECP545	Semiconductor Devices and IC Simulation Lab	CORE	1	0	0	2
494	2	21ECT546	Micro-& Nano- electro-mechanical Systems (MEMS & NEMS)	CORE	3	3	0	0
495	2	21ECP547	System Design Lab	CORE	3	0	0	6
496	2	21ECT548	Technical Documentation	CORE	1	0	0	2
497	3	21ECD641	Dissertation	CORE	6	0	0	12

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
498	3	21ECD642	Minor Project (Research Project)	CORE	4	0	0	4
499	4	21ECD643	Dissertation	CORE	12	0	0	24
500	1	21ECT873	Adaptive Signal Processing	PE	3	3	0	0
501	1	21ECT874	Advanced Computer Architecture	PE	3	3	0	0
502	1	21ECT875	CAD Algorithms for Synthesis of VLSI Systems	PE	3	3	0	0
503	1	21ECT876	Computer Arithmetic & Micro-architecture Design	PE	3	3	0	0
504	1	21ECT877	Current-Mode Analog Signal processing	PE	3	3	0	0
505	1	21ECT878	Design of Asynchronous Sequential Circuits	PE	3	3	0	0
506	1	21ECT879	Digital System Design & FPGA	PE	3	3	0	0
507	1	21ECT880	Electronic manufacturing Technology	PE	3	3	0	0
508	1	21ECT881	Embedded SoC & Cyber Physical Systems	PE	3	3	0	0
509	1	21ECT882	Formal Verification of Digital Hardware & Embedded Software	PE	3	3	0	0
510	1	21ECT883	FPGAs Physical Design	PE	3	3	0	0
511	1	21ECT884	Graph Algorithms & Combinatorial optimization	PE	3	3	0	0
512	1	21ECT885	Languages for Hardware Description, Scripting and Simulation	PE	3	3	0	0
513	1	21ECT886	Medical Engineering & Systems	PE	3	3	0	0
514	1	21ECT887	Memory design & testing	PE	3	3	0	0
515	1	21ECT888	Mixed Signal IC Design	PE	3	3	0	0
516	1	21ECT889	Nanotechnology & Emerging Applications	PE	3	3	0	0
517	1	21ECT890	RF Integrated Circuits	PE	3	3	0	0
518	1	21ECT891	RF MEMS	PE	3	3	0	0
519	1	21ECT892	Selected Topics in VLSI-1	PE	1	1	0	0
520	1	21ECT893	Selected Topics in VLSI-2	PE	1	1	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
521	1	21ECT894	Selected Topics in VLSI-3	PE	1	1	0	0
522	1	21ECT895	Selected Topics in VLSI-4	PE	1	1	0	0
523	1	21ECT896	System Level Design & Modeling	PE	3	3	0	0
524	1	21ECT897	VLSI signal processing architectures	PE	3	3	0	0
525	1	21ECT898	VLSI Technology	PE	3	3	0	0
526	1	21ECT899	VLSI Testing & Testability	PE	3	3	0	0

(WIRELESS AND OPTICAL COMMUNICATION)

527	1	21ECT561	Advanced Digital Communication Systems	CORE	3	3	0	0
528	1	21ECT562	Advanced Optical Communication Systems	CORE	3	3	0	0
529	1	21ECP563	Communication lab-1	CORE	3	0	0	6
530	1	21ECT564	Modeling, Optimization & Transforms (RM-II)*	CORE	2	2	0	0
531	1	21ECT565	Wireless Communications	CORE	3	3	0	0
532	2	21ECP566	Communication lab-2	CORE	2	0	0	2
533	2	21ECT567	Optical Networks	CORE	3	3	0	0
534	3	21ECP661	Dissertation	CORE	6	0	0	12
535	3	21ECD662	Research Project	CORE	4	0	0	8
536	4	21ECD663	Dissertation	CORE	12	0	0	24
537	2	21ECP900	Technical Documentation	PE	1	0	0	2

MANAGEMENT STUDIES (MANAGEMENT STUDIES)

538	1	21BMT501	Management Theory & Practice	CORE	3	3	0	0
539	1	21BMT502	Accounting for Managers	CORE	3	2	1	0
540	1	21BMT503	Marketing Management - I	CORE	2	2	0	0
541	1	21BMT504	Organizational Behavior	CORE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
542	1	21BMT505	Managerial Economics	CORE	3	3	0	0
543	1	21BMT506	Operations Research & Optimization	CORE	3	2	1	0
544	1	21BMT507	Statistics for Decision Making	CORE	3	2	1	0
545	1	21BMT508	Business Communication - I	CORE	2	0	1	2
546	2	21BMT509	Business Environment	CORE	3	3	0	0
547	2	21BMT510	Financial Management	CORE	3	3	0	0
548	2	21BMT511	Marketing Management - II	CORE	2	2	0	0
549	2	21BMT512	Human Resource Management	CORE	3	3	0	0
550	2	21BMT513	Business Research Methods	CORE	3	3	0	0
551	2	21BMT514	Operations Management	CORE	3	2	1	0
552	2	21BMT515	IT for Data Visualization	CORE	3	2	1	0
553	2	21BMT516	Business Communication - II	CORE	2	0	1	2
554	3	21BMS601	Course of Independent Study (CIS)	CORE	2	0	0	4
555	3	21BMS602	Summer Internship (SI)	CORE	2		0	4
556	3	21BMT603	Strategic Management	CORE	3	3	0	0
557	3	21BMT604	Strategy for Management in Digital Age	CORE	2	2	0	0
558	4	21BMD605	Applied Management Research Project/ Capstone Project	CORE	2	0	0	4
559	4	21BMT606	Business Laws	CORE	3	3	0	0
560	4	21BMT607	Corporate Governance, Ethics & CSR	CORE	2	2	0	0
561	1	21BMT801	Entrepreneurship Development	PE	3			
562	1	21BMT802	Creative Problem Solving	PE	3			
563	1	21BMT803	Innovation and Design Thinking	PE	3			
564	1	21BMT804	Team Building and Leadership	PE	3			
565	1	21BMT805	Negotiation Skills	PE	3			
566	1	21BMT806	Managing Across Cultures	PE	3			
567	1	21BMT807	Managing Creativity & Innovation	PE	3			
568	1	21BMT808	Technology Management	PE	3			
569	1	21BMT809	IT Project Management	PE	3			
570	1	21BMT810	Information Security & Risk Management	PE	3			
571	1	21BMT811	Technical Writing	PE	3			
572	1	21BMT812	e-Business & e-Governance	PE	3			
573	1	21BMT813	Consumer Behavior	PE	3			
574	1	21BMT814	Sales and Distribution Management	PE	3			
575	1	21BMT815	Marketing Analytics	PE	3			
576	1	21BMT816	Marketing Analytics	PE	3			
577	1	21BMT817	International Marketing	PE	3			
578	1	21BMT818	Digital Marketing	PE	3			
579	1	21BMT819	Rural Marketing	PE	3			
580	1	21BMT820	B2B Marketing	PE	3			
581	1	21BMT821	Pricing Strategy	PE	3			
582	1	21BMT822	Marketing of Hi-Technology Products	PE	3			
583	1	21BMT823	Managing Product Portfolios	PE	3			
584	1	21BMT824	Integrated Marketing Communications	PE	3			

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
585	1	21BMT825	Services Marketing	PE	3			
586	1	21BMT826	Managing Customer Relationships	PE	3			
587	1	21BMT827	Brand Management	PE	3			
588	1	21BMT828	Financial Markets & Systems	PE	3			
589	1	21BMT829	Investment Management	PE	3			
590	1	21BMT830	Money & Banking	PE	3			
591	1	21BMT831	Project & Infrastructure Finance	PE	3			
592	1	21BMT832	Corporate Restructuring	PE	3			
593	1	21BMT833	International Finance	PE	3			
594	1	21BMT834	Behavioral Finance	PE	3			
595	1	21BMT835	Financial Modelling in Excel	PE	3			
596	1	21BMT836	Future, Options & Risk Management	PE	3			
597	1	21BMT837	Fixed Income Securities	PE	3			
598	1	21BMT838	Management Control Systems	PE	3			
599	1	21BMT839	Investment Banking	PE	3			
600	1	21BMT840	Financial Analytics	PE	3			
601	1	21BMT841	Financial Analytics	PE	3			
602	1	21BMT842	Financial Statement Analysis	PE	3			
603	1	21BMT843	Supply Chain Finance	PE	3			
604	1	21BMT844	Organizational Change & Development	PE	3			
605	1	21BMT845	Strategic Human Resource Management	PE	3			
606	1	21BMT846	Performance & Compensation Management	PE	3			
607	1	21BMT847	HR Strategic Staffing	PE	3			
608	1	21BMT848	Managing High Performance Teams	PE	3			
609	1	21BMT849	Learning & Development	PE	3			
610	1	21BMT850	Industrial Relations and Labour Laws	PE	3			
611	1	21BMT851	Competency Mapping & Assessment	PE	3			
612	1	21BMT852	International HRM	PE	3			
613	1	21BMT853	HR Analytics	PE	3			
614	1	21BMT854	HR Analytics	PE	3			
615	1	21BMT855	Psychological Testing	PE	3			
616	1	21BMT856	Career Development & Succession Planning	PE	3			
617	1	21BMT857	Managing Social & Human Capital	PE	3			
618	1	21BMT858	Advanced Operations Management	PE	3			
619	1	21BMT859	Business Forecasting	PE	3			
620	1	21BMT860	Constraints Management and Industry Applications	PE	3			
621	1	21BMT861	Contemporary Project Management	PE	3			
622	1	21BMT862	Operations Strategy for Competitive Advantage	PE	3			
623	1	21BMT863	Service Operations Management	PE	3			
624	1	21BMT864	Distribution and Logistics Management	PE	3			
625	1	21BMT865	Game Theory for Business Strategy	PE	3			
626	1	21BMT866	Purchasing and Sourcing Management	PE	3			
627	1	21BMT867	Managing Supply Chain Risk	PE	3			
628	1	21BMT868	Business Process Modelling	PE	3			

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
629	1	21BMT869	Supply Chain Analytics & Optimization	PE	3			
630	1	21BMT870	Lean Six Sigma	PE	3			
631	1	21BMT871	Data Structure & Quality	PE	3			
632	1	21BMT872	Multivariate Data Analysis	PE	3			
633	1	21BMT873	Econometrics & Time Series Analysis	PE	3			
634	1	21BMT874	Business Analytics & Intelligence	PE	3			
635	1	21BMT875	Applications of Machine Learning	PE	3			
636	1	21BMT876	Managing Enterprise Data	PE	3			
637	1	21BMT877	Decision Support Systems	PE	3			
638	1	21BMT878	Strategic Information Systems	PE	3			
639	1	21BMT879	Introduction to Big Data & Cloud Computing	PE	3			

MATERIAL RESEARCH CENTER (MATERIALS SCIENCE AND ENGINEERING)

1	1	21MST501	Design of Materials	CORE	3	3	0	0
2	1	21MST502	Material Characterization Techniques	CORE	3	3	0	0
3	1	21MSP503	Material synthesis and Characterization Lab	CORE	3	0	0	6
4	1	21MST504	Synthesis and Properties of Materials	CORE	3	3	0	0
5	2	21MST505	Compound Semiconducting Devices	CORE	3	3	0	0
6	2	21MST506	Spectroscopic & Microscopic Techniques for Material Characterization	CORE	3	3	0	0
7	2	21MST507	Thermodynamics and Kinetics of Materials	CORE	3	3	0	0
8	3	21MSD601	Dissertation - I	CORE	9	0	0	18
9	3	21MSS602	Seminar	CORE	3	0	0	6
10	4	21MSD603	Dissertation - II	CORE	12	0	0	24
11	1	21MST801	Biomaterials	PE	3	3	0	0
12	1	21MST802	Ceramic Materials & Properties	PE	3	3	0	0
13	1	21MST803	Colloids and Surfaces	PE	3	3	0	0
14	1	21MST804	Computational Materials Engineering	PE	3	2	0	2
15	1	21MST805	Introduction to Soft Materials	PE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
16	1	21MST806	Optoelectronic Materials and Devices	PE	3	3	0	0
17	1	21MST807	Organic Electronics	PE	3	3	0	0
18	1	21MST808	Polymer Science & Processing Technology	PE	3	3	0	0
19	1	21MST809	Smart & Intelligent Materials	PE	3	3	0	0
20	1	21MST810	Technology Transfer and Intellectual Property (IP) Commercialisation	PE	3	3	0	0
21	2	21MST811	Advanced ceramics	PE	3	3	0	0
22	2	21MST812	Advanced Polymer Physics	PE	3	2	0	2
23	2	21MST813	Degradation of Materials	PE	3	3	0	0
24	2	21MST814	Elective III	PE	3	3	0	0
25	2	21MST815	Elective IV	PE	3	3	0	0
26	2	21MSP816	Elective V	PE	3	0	0	6
27	2	21MST817	Energy Materials	PE	3	3	0	0
28	2	21MST818	Material Processing & Microstructure Development	PE	3	3	0	0
29	2	21MST819	Membrane Technology	PE	3	3	0	0
30	2	21MSP820	Microscopy Lab	PE	3	0	0	6
31	2	21MST821	Nano Manufacturing	PE	3	3	0	0
32	2	21MST822	Nanomaterials Technology	PE	3	3	0	0
33	2	21MST823	Nanomechanics	PE	3	3	0	0
34	2	21MSP824	Spectroscopy Lab	PE	3	0	0	6
35	2	21MSP825	Thin Film fabrication & Characterization Lab	PE	3	0	0	6
36	2	21MST826	Thin films and Surface Engineering	PE	3	3	0	0

MATHEMATICS (MATHEMATICS)

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
676	1	21MAP501	Computer Lab	CORE	2	0	0	4
677	1	21MAT502	Linear Algebra	CORE	4	3	1	0
678	1	21MAT503	Abstract Algebra	CORE	4	3	1	0
679	1	21MAT504	Ordinary Differential Equation	CORE	4	3	1	0
680	1	21MAT505	Real Analysis	CORE	4	3	1	0
681	1	21MAT506	Multivariable Calculus	CORE	4	3	1	0
682	1	21MAT507	Computer Language	CORE	1	1	0	0
683	2	21MAT508	General Topology	CORE	4	3	1	0
684	2	21MAT509	Complex Analysis	CORE	4	3	1	0
685	2	21MAT510	Introduction to Numerical Analysis	CORE	4	3	1	0
686	2	21MAT511	Partial Differential Equation	CORE	4	3	1	0
687	2	21MAT512	Statistics and Probability Theory	CORE	4	3	1	0
688	3	21MAD601	Dissertation-I	CORE	4	0	0	8
689	3	21MAT602	Functional Analysis	CORE	4	3	1	0
690	4	21MAD603	Dissertation-II	CORE	8	0	0	16
691	1	21MAT801	Special Functions	PE	3	3	0	0
692	1	21MAT802	Applied Linear Algebra	PE	3	3	0	0
693	1	21MAT803	Number Theory	PE	3	3	0	0
694	1	21MAT804	Discrete Mathematics	PE	3	3	0	0
695	1	21MAT805	Classical Mechanics	PE	3	3	0	0
696	1	21MAT806	Introduction to Graph Theory	PE	3	3	0	0

MECHANICAL ENGINEERING (DESIGN ENGINEERING)

697	1	21MET501	Advanced Dynamics and Vibrations	CORE	3	3	0	0
698	1	21MET502	Advanced Engineering Mathematics	CORE	3	3	0	0
699	1	21MET503	Theory of Elasticity and Plasticity	CORE	3	3	0	0
700	1	21MEP504	Vibration and Analysis Lab	CORE	1	0	0	2
701	2	21MET505	Advanced Finite Element Methods	CORE	3	3	0	0
702	2	21MEP506	CAD/CAE Lab	CORE	1	0	0	2
703	2	21MET507	Modeling and Simulation of Dynamics Systems	CORE	3	3	0	0
704	2	21MEP508	Modelling and Simulation of Dynamic Systems Lab	CORE	1	0	0	2
705	3	21MED601	Dissertation	CORE	8	0	0	8
706	3	21MES602	Seminar	CORE	4	0	0	4
707	4	21MED603	Dissertation	CORE	12	0	0	12
708	1	21MET801	Computer Aided Fluid Dynamics	PE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
709	1	21MET802	Data Acquisition and Control Lab	PE	1	0	0	2
710	1	21MET803	Design against Fracture and Fatigue	PE	3	3	0	0
711	1	21MET804	Design of Mechanisms	PE	3	3	0	0
712	1	21MET805	Dynamics of Multibody Systems and Applications	PE	3	3	0	0
713	1	21MET806	Experimental Stress Analysis	PE	3	3	0	0
714	1	21MET807	Machinery Fault Diagnostics and Signal Processing	PE	3	3	0	0
715	1	21MET808	Mechanical Behavior of Materials	PE	3	3	0	0
716	1	21MET809	Mechanics of Composite Materials	PE	3	3	0	0
717	1	21MET810	Robotics and Control	PE	3	3	0	0
718	1	21MET811	Rotor Dynamics	PE	3	3	0	0

(INDUSTRIAL ENGINEERING)

719	1	21MET521	Advance Optimization Techniques	CORE	3	3	0	0
720	1	21MET522	Applied Statistics	CORE	3	3	0	0
721	1	21MET523	Work System Design	CORE	3	3	0	0
722	2	21MET524	Advanced Operations Planning & Control	CORE	3	3	0	0
723	2	21MEP525	Ergonomics Lab	CORE	1	0	0	2
724	2	21MET526	Quality System Engineering	CORE	3	3	0	0
725	2	21MET527	Simulation and Optimization Lab	CORE	1	0	0	2
726	2	21MET528	Supply Chain Management	CORE	3	3	0	0
727	3	21MED621	Dissertation	CORE	6	0	0	6
728	3	21MES622	Seminar	CORE	4	0	0	4
729	4	21MED623	Dissertation	CORE	12	0	0	12
730	1	21MET812	Artificial Intelligence in Manufacturing Systems	PE	3	3	0	0
731	1	21MET813	Human Factor Engineering	PE	3	3	0	0
732	1	21MET814	Machine Learning in Manufacturing Systems	PE	3	3	0	0
733	1	21MET815	Manufacturing Strategy	PE	3	3	0	0
734	1	21MET816	Product Design and Development	PE	3	3	0	0
735	1	21MET817	Productivity Engineering	PE	3	3	0	0
736	1	21MET818	Project Management	PE	3	3	0	0
737	1	21MET819	Reliability Engineering	PE	3	3	0	0
738	1	21MET820	Service System Design	PE	3	3	0	0
739	1	21MET821	Six Sigma & Lean Manufacturing	PE	3	3	0	0
740	1	21MET822	Smart Manufacturing Systems	PE	3	3	0	0
741	1	21MET823	Sustainable Manufacturing	PE	3	3	0	0
742	1	21MET824	System Modling and Simulations	PE	3	3	0	0

(PRODUCTION ENGINEERING)

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
743	1	21MET541	Advanced Manufacturing Technologies (AMTs)	CORE	3	3	0	0
744	1	21MEP542	Advanced Manufacturing Technologies (AMTs) Laboratory	CORE	1	0	0	2
745	1	21MET543	CAD/CAM & Robotics	CORE	3	3	0	0
746	1	21MET544	Theory of Machining & Forming Processes	CORE	3	3	0	0
747	2	21MET545	Industrial Tribology	CORE	3	3	0	0
748	2	21MEP546	Industrial Tribology Laboratory	CORE	1	0	0	2
749	2	21MET547	Quality Management	CORE	3	3	0	0
750	2	21MET548	Welding & Casting Technology	CORE	3	3	0	0
751	2	21MEP549	Welding & Casting Technology Laboratory	CORE	1	0	0	2
752	3	21MED641	Dissertation	CORE	6	0	0	6
753	3	21MES642	Seminar	CORE	4	0	0	4
754	4	21MED643	Dissertation	CORE	12	0	0	12
755	1	21MET825	Advanced Robotics and Expert Systems	PE	3	3	0	0
756	1	21MET826	Composite Materials & Processing	PE	3	3	0	0
757	1	21MET827	Experimental Stress Analysis	PE	3	3	0	0
758	1	21MET828	Maintenance Management	PE	3	3	0	0
759	1	21MET829	Mechatronics for Intelligent Manufacturing	PE	3	3	0	0
760	1	21MET830	MEMS & NEMS	PE	3	3	0	0
761	1	21MET831	Modeling & Simulation	PE	3	3	0	0
762	1	21MET832	Polymers & their Processing	PE	3	3	0	0
763	1	21MET833	Precision Manufacturing	PE	3	3	0	0
764	1	21MET834	Product Design & Development	PE	3	3	0	0
765	1	21MET835	Rapid Prototyping & Tooling	PE	3	3	0	0
766	1	21MET836	Tool Design & Engineering	PE	3	3	0	0

(THERMAL ENGINEERING)

767	1	21MET561	Advance Heat Transfer	CORE	3	3	0	0
768	1	21MET562	Advanced Fluid Mechanics	CORE	3	3	0	0
769	1	21MET563	Advanced Thermodynamics	CORE	3	3	0	0
770	1	21MET564	Computational Fluid Dynamics	CORE	3	3	0	0
771	1	21MET565	Design of Thermal System	CORE	3	3	0	0
772	1	21MEP566	Thermal Lab	CORE	2	0	0	4
773	2	21MEP567	CFD Lab	CORE	2	0	0	4
774	3	21MED661	Dissertation	CORE	8	0	0	8
775	3	21MES662	Seminar	CORE	4	0	0	4

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
776	4	21MED663	Dissertation	CORE	12	0	0	12
777	1	21MET837	Advanced Refrigeration	PE	3	3	0	0
778	1	21MET838	Alternative Fuels in I.C. Engine	PE	3	3	0	0
779	1	21MET839	Energy Conversion Technologies	PE	3	3	0	0
780	1	21MET840	Energy Management	PE	3	3	0	0
781	1	21MET841	Heat Exchanger Design	PE	3	3	0	0
782	1	21MET842	Pollution Control Technologies	PE	3	3	0	0
783	1	21MET843	Refrigeration and Air-conditioning Systems	PE	3	3	0	0
784	1	21MET844	Simulation and Modeling	PE	3	3	0	0
785	1	21MET845	Solar Thermal Engineering	PE	3	3	0	0
786	1	21MET846	Wind Energy Utilization	PE	3	3	0	0

METALLURGICAL AND MATERIALS ENGINEERING
(METALLURGICAL & MATERIALS ENGINEERING)

787	1	21MTT501	Advanced Metallurgical Thermodynamics	CORE	3	3	0	0
788	1	21MTT502	Materials Characterization	CORE	3	3	0	0
789	1	21MTP503	Metallurgical Laboratory	CORE	2	0	0	4
790	1	21MTT504	Structure-Properties of Materials	CORE	3	3	0	0
791	2	21MTT505	Advanced Physical Metallurgy	CORE	3	3	0	0
792	2	21MTT506	Composite Materials	CORE	3	3	0	0
793	2	21MTT507	Mechanical Behavior of Materials	CORE	3	3	0	0
794	3	21MTD601	Dissertation-I	CORE	10	0	0	20
795	3	21MTS602	Seminar *	CORE	2	0	0	4
796	4	21MTD603	Dissertation-II	CORE	12	0	0	24
797	1	21MTT801	Advances in Heat Treatment	PE	3	3	0	0
798	1	21MTT802	Corrosion and Its Prevention	PE	3	3	0	0
799	1	21MTT803	Joining of Materials	PE	3	3	0	0
800	1	21MTT804	Nanomaterials: Processing and Properties	PE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
801	1	21MTT805	Physical Metallurgy of Alloy Steels	PE	3	3	0	0
802	1	21MTT806	Properties and Processing of Polymers	PE	3	3	0	0
803	2	21MTT807	Advanced Ceramics and Glasses	PE	3	3	0	0
804	2	21MTT808	Extraction of Metals	PE	3	3	0	0
805	2	21MTT809	Fracture and Failure Analysis	PE	3	3	0	0
806	2	21MTT810	Functional Materials	PE	3	3	0	0
807	2	21MTT811	Light Metals and Alloys	PE	3	3	0	0
808	2	21MTT812	Non-Destructive Testing and Evaluation	PE	3	3	0	0
809	2	21MTT813	Powder Metallurgy and Particulate Materials Processing	PE	3	3	0	0
810	2	21MTT814	Secondary Steel Making	PE	3	3	0	0
811	2	21MTT815	Surface Engineering	PE	3	3	0	0
812	2	21MTT816	Transport Phenomena in Materials Processes	PE	3	3	0	0

(STEEL TECHNOLOGY)

813	1	21MTT521	Advanced Manufacturing Processes of Steels	CORE	3	3	0	0
814	1	21MTT522	Advanced Metallurgical Thermodynamics	CORE	3	3	0	0
815	1	21MTT523	Materials Characterization	CORE	3	3	0	0
816	1	21MTP524	Microstructure Property Correlation Lab	CORE	2	0	0	4
817	2	21MTT525	Advanced Physical Metallurgy	CORE	3	3	0	0
818	2	21MTT526	Advanced Solidification Processing of Steels	CORE	3	3	0	0
819	2	21MTT527	Advances in Iron making and Steel making	CORE	3	3	0	0
820	3	21MTD621	Dissertation-I	CORE	10	0		20
821	3	21MTS622	Seminar *	CORE	2	0		4

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
822	4	21MTT623	Dissertation-II	CORE	12	0	0	24
823	1	21MTT817	Advanced Foundry Technology	PE	3	3	0	0
824	1	21MTT818	Advances in Heat Treatment	PE	3	3	0	0
825	1	21MTT819	Corrosion and its Prevention	PE	3	3	0	0
826	1	21MTT820	Mathematical Modeling and Simulation in Materials Processing	PE	3	3	0	0
827	1	21MTT821	Physical Metallurgy of Alloy Steels	PE	3	3	0	0
828	1	21MTT822	Steels for Structural Applications	PE	3	3	0	0
829	2	21MTT823	Advanced Ceramics and Glasses	PE	3	3	0	0
830	2	21MTT824	Advanced Welding Technology of Steel	PE	3	3	0	0
831	2	21MTT825	Fracture and Failures Analysis	PE	3	3	0	0
832	2	21MTT826	Functional Materials	PE	3	3	0	0
833	2	21MTT827	Mechanical Behavior of Steels	PE	3	3	0	0
834	2	21MTT828	Non-Destructive Testing and Evaluation	PE	3	3	0	0
835	2	21MTT829	Powder Metallurgy and Particulate Materials Processing	PE	3	3	0	0
836	2	21MTT830	Surface Engineering	PE	3	3	0	0
837	2	21MTT831	Transport Phenomena in Materials Processes	PE	3	3	0	0

NATIONAL CENTRE FOR DISASTER MITIGATION AND MANAGEMENT (EARTHQUAKE ENGINEERING)

838	1	21EQT501	Earthquake Design Concepts	CORE	3	3	0	0
839	1	21EQT502	Earthquake Resistant Design of Steel Structures	CORE	3	3	0	0
840	1	21EQT503	Earthquake Structural Dynamics	CORE	4	3	1	0
841	2	21EQT504	Earthquake Analysis of Structures	CORE	3	3	0	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
842	2	21EQT505	Earthquake Resistant Design of Masonry Structures	CORE	3	3	0	0
843	2	21EQT506	Finite Element Methods	CORE	3	3	0	0
844	3	21EQD601	Dissertation & Thesis	CORE	8	0	0	16
845	3	21EQS602	Research Project	CORE	4	0	0	16
846	4	21EQD603	Dissertation/Thesis	CORE	1	0	0	24
847	1	21EQT801	Earthquake Dynamics Laboratory	PE	2	0	0	4
848	1	21EQT802	Computational Methods	PE	3	3	0	0
849	1	21EQT803	Ductile Design of RC Structures	PE	3	3	0	0
850	1	21EQT804	Earthquake Dynamics Laboratory	PE	2	0	0	4
851	1	21EQT805	Earthquake Geotechnical Engineering	PE	3	3	0	0
852	1	21EQT806	Earthquake Retrofitting of Structures	PE	3	3	0	0
853	1	21EQT807	Nonlinear analysis of Structures	PE	3	3	0	0
854	1	21EQT808	Plates & Shells	PE	3	3	0	0
855	1	21EQT809	Seismology& Geotechnical Earthquake Engineering	PE	3	3	0	0
856	1	21EQT810	Soil Structure Interaction	PE	3	3	0	0
857	1	21EQT811	Stability Analysis of Structures	PE	3	3	0	0
858	1	21EQT812	Structural Control	PE	3	3	0	0
859	1	21EQT813	Theory of Elasticity	PE				

PHYSICS (PHYSICS)

860	1	21PHT501	Classical Mechanics	CORE	4	3	1	0
861	1	21PHT502	Electronics	CORE	4	3	1	0
862	1	21PHP503	Electronics Lab	CORE	4	0	0	8
863	1	21PHT504	Mathematical Physics	CORE	4	3	1	0
864	1	21PHT505	Quantum Mechanics	CORE	4	3	1	0
865	2	21PHT506	Atomic & Molecular Spectroscopy	CORE	4	3	1	0

Sno	Sem.	Course Code	Title of Course	Elective Type	Cr	L	T	P
866	2	21PHT507	Electrodynamics	CORE	4	3	1	0
867	2	21PHT508	Nuclear and Particle Physics	CORE	4	3	1	0
868	2	21PHP509	Nuclear Physics & Spectroscopy Lab	CORE	4	0	0	8
869	2	21PHT510	Statistical Mechanics	CORE	4	3	1	0
870	3	21PHD601	Dissertation1	CORE	6	0	0	12
871	3	21PHT602	Solid State Physics	CORE	4	3	1	0
872	3	21PHP603	Solid State Physics Lab	CORE	4	0	0	8
873	4	21PHD604	Dissertation2	CORE	9	0	0	18
874	1	21PHT801	Advanced Quantum Mechanics	PE				
875	1	21PHT802	Advanced Techniques for Materials Characterisation	PE				
876	1	21PHT803	Basic Lab VIEW Programming	PE				
877	1	21PHT804	Basics of Astronomy and Astrophysics	PE				
878	1	21PHT805	Experimental Techniques in High Energy Physics	PE				
879	1	21PHT806	General Theory of Relativity	PE				
880	1	21PHT807	Introduction to Machine Learning in Physics	PE				
881	1	21PHT808	Introduction to Monte Carlo Simulations	PE				
882	1	21PHT809	Introductory Quantum Field Theory	PE				
883	1	21PHT810	Materials Science and Engineering	PE				
884	1	21PHT811	Membrane Technology for Energy Applications	PE				
885	1	21PHT812	Nanostructured Materials and Applications	PE				
886	1	21PHT813	Nanotechnology for Energy Applications	PE				
887	1	21PHT814	Numerical Methods and Computer Programming	PE				
888	1	21PHT815	Physics at Low Dimensions	PE				
889	1	21PHT816	Plasma Physics	PE				
890	1	21PHT817	Semiconductor Physics and Devices	PE				
891	1	21PHT818	Soft Materials	PE				
892	1	21PHT819	`	PE				
893	1	21PHT820	Spintronics: Physics and Technology	PE				
894	1	21PHT821	Surface Science	PE				
895	1	21PHT822	Vacuum Science and Thin Film Technology	PE				

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

DEPARTMENT /CENTER: ARCHITECTURE AND PLANNING

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Planning Studio-I	Taught Course	PC	4	0	0	8
2		Planning History and Theory	Taught Course	PC	3	2	1	0
3		Urban Infrastructure Planning	Taught Course	PC	3	2	1	0
4		Planning Techniques and Statistical Analysis	Taught Course	PC	3	2	1	0
5		Programme Elective I	Taught Course	PE	3	2	1	0
6		Programme Elective II	Taught Course	PE	3	2	1	0
					19			

Semester. II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Planning Studio-II	Taught Course	PC	4	0	0	8
2		Urban Laws, Governance and Management	Taught Course	PC	3	2	1	0
3		Urban Transportation Planning	Taught Course	PC	3	2	1	0
4		Research Methodology for Planners	Taught Course	PC	3	2	1	0
5		Programme Elective III	Taught Course	PE	3	2	1	0
6		Programme Elective IV	Taught Course	PE	3	2	1	0
7		Open Elective	Taught Course	OE	1			
					20			

Semester. III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Planning Studio-III	Taught Course	PC	4	0	0	8
2		Programme Elective V	Taught Course	PE	3	2	1	0
3		Open Elective	Taught Course	OE	3			
4		Dissertation-I	Dissertation	Dissertation	6	0	0	6
5		Seminar and Practical Training	Seminar	Seminar	3	0	0	3
					19			

Semester. IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation-I	Dissertation	Dissertation	14	0	0	14
					14			

A compulsory professional training of 6 weeks has to be undertaken during summer vacations in between 2nd and 3rd semester and shall be evaluated in ARS717.

	Credits as per	
	Institute norms	Proposed Scheme
Program Core	27-30	30
Program Elective	12-15	15
Open Elective	0-8	4
Dissertation, Seminar	22-30	23
TOTAL	72-80	72

Malaviya national institute of technology jaipur
department of management studies

Name of the program	Master of Business Administration [MBA]
Minimum duration	2 years [4 semesters]
Maximum duration	3 years [6 semesters]

Program Scheme

Semester - I

Code	Course Nomenclature	Credits (L-T-P)
	Management Theory & Practice	3 (3-0-0)
	Accounting for Managers	3 (2-1-0)
	Marketing Management - I	2 (2-0-0)
	Organizational Behavior	3 (3-0-0)
	Managerial Economics	3 (3-0-0)
	Operations Research & Optimization	3 (2-1-0)
	Statistics for Decision Making	3 (2-1-0)
	Business Communication - I	2 (0-1-2)
	Total courses in semester = 8	
	Total credits in semester = 22	

Semester - II

Code	Course Nomenclature	Credits (L-T-P)
	Business Environment	3 (3-0-0)
	Financial Management	3 (3-0-0)
	Marketing Management - II	2 (2-0-0)
	Human Resource Management	3 (3-0-0)
	Business Research Methods	3 (3-0-0)
	Operations Management	3 (2-1-0)
	IT for Data Visualization	3 (2-1-0)
	Business Communication - II	2 (0-1-2)
	Total courses in semester = 8	
	Total credits in semester = 22	

Students will be required to undergo a Summer Internship during the summer break intervening Semester II and III for a period of

offered by the Department. In addition to these area electives, the students may be offered two open electives in semester 3 and

Semester - III

Code	Course Nomenclature	Credits (L-T-P)
	Strategic Management	3 (3-0-0)
	Strategy for Management in Digital Age	2 (2-0-0)
	Course of Independent Study (CIS)	2 (0-0-4)
	Summer Internship (SI)	2 (0-0-4)
Area Electives		
BMTxxx	Area Elective 3.1	3
BMTxxx	Area Elective 3.2	3
BMTxxx	Area Elective 3.3	3
Open Electives		
BMTxxx	Open Elective 3.1	3
BMTxxx	Open Elective 3.2	3
	Total courses in semester = 7 + SI + CIS	
	Total credits in semester = 24	

Semester - IV

Code	Course Nomenclature	Credits (L-T-P)
	Business Laws	3 (3-0-0)
	Corporate Governance, Ethics & CSR	2 (2-0-0)
	Applied Management Research Project/ Capstone Project	2 (0-0-4)
Area Electives		
BMTxxx	Area Elective 4.1	3
BMTxxx	Area Elective 4.2	3
BMTxxx	Area Elective 4.3	3
Open Electives		
BMTxxx	Open Elective 4.1	3
	Total courses in semester = 6 + 1 Project	
	Total credits in semester = 19	

Total Credits for the program = 87 (23 + 22 + 24 + 18)

Credits distribution among type of courses

Type of course	Sem 1	Sem 2	Sem 3	Sem 4	Total
Program Core	22	22	5	5	**54**
Area Electives	0	0	9	9	**18**
Open Electives	0	0	6	3	**9**
Seminar/Project	0	0	4	2	**6**
Total	**22**	**22**	**24**	**19**	**87**

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
DEPARTMENT OF CHEMISTRY

Semester. I

Sl. No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Advanced Inorganic Chemistry	Theory	Program Core	4	3	1	0
2		Organic Chemistry	Theory	Program Core	4	3	1	0
3		Quantum Chemistry	Theory	Program Core	4	3	1	0
4		Analytical Chemistry	Theory	Program Core	4	3	1	0
5		(i) Inorganic Chemistry Lab-I (ii) Organic Chemistry Lab-I (iii) Physical Chemistry Lab-I (iv) Analytical Chemistry Lab-I	Lab	Program Core	8 (2+2+2+2)	0	0	16 (4+4+4+4)

Semester. II

Sl. No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Bonding in Main Group Elements and Transition Metal Organometallic Chemistry	Theory	Program Core	4	3	1	0
2		Advanced Organic Chemistry	Theory	Program Core	4	3	1	0
3		Classical and Statistical Thermodynamics	Theory	Program Core	4	3	1	0
4		Spectroscopy and its Applications	Theory	Program Core	4	3	1	0
5		(i) Inorganic Chemistry Lab-II (ii) Organic Chemistry Lab-II (iii) Physical Chemistry Lab-II (iv) Analytical Chemistry Lab-II	Lab	Program Core	8 (2+2+2+2)	0	0	16 (4+4+4+4)

Semester. III

Sl. No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Program Elective-I	Theory	Program Elective	3	3	0	0
2		Program Elective-II	Theory	Program Elective	3	3	0	0
3		Program Elective-III	Theory	Program Elective	3	3	0	0
4		Program Elective-IV	Theory	Program Elective	3	3	0	0
5		Program Elective-V	Theory	Program Elective	3	3	0	0
6		Dissertation – I	Dissertation	Dissertation	6	-	-	-

Semester. IV

Sl. No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Program Elective-VI	Theory	Program Elective	3	3	0	0
2		Open Elective	Theory	Open Elective	3	3	0	0
6		Dissertation – II	Dissertation	Dissertation	10	-	-	-

Malaviya National Institute of Technology Jaipur
Department of Mathematics
Proposed scheme for M.Sc. (Mathematics)

M.Sc. I Semester					
Course Code	**Course Name**	**Course credits**	**L**	**T**	**P**
	Linear Algebra	4	3	1	0
	Abstract Algebra	4	3	1	0
	Ordinary Differential Equation	4	3	1	0
	Real Analysis	4	3	1	0
	Multivariable Calculus	4	3	1	0
	Computer Language	1	1	0	0
	Computer Lab	2	0	0	4
	I Semester credits	23			
	M.Sc. II Semester				
Course Code	**Course Name**	**Course credits**	**L**	**T**	**P**
	General Topology	4	3	1	0
	Complex Analysis	4	3	1	0
	Introduction to Numerical Analys	4	3	1	0
	Partial Differential Equation	4	3	1	0
	Statistics and Probability Theory	4	3	1	0
	Program Elective-I	3	3	0	0
	II Semester credits	23			
	M.Sc. III Semester				
Course Code	**Course Name**	**Course credits**	**L**	**T**	**P**
	Functional Analysis	4	3	1	0
	Program Elective-II	3	3	0	0
	Program Elective-III	3	3	0	0
	Program Elective-IV	3	3	0	0
	Program Elective-V	3	3	0	0
	Dissertation-I	4	0	0	8
	III Semester credits	20			
	M.Sc. IV Semester				
Course Code	**Course Name**	**Course credits**	**L**	**T**	**P**
	Program Elective-VI	3	3	0	0
	Program Elective-VII	3	3	0	0
	Open Elective	3	3	0	0
	Dissertation-II	8	0	0	16
	IV Semester credits	17			

Tentative List of Program Electives

	Course	**Course credits**	**L**	**T**	**P**
	Special Functions	3	3	0	0
	Applied Linear Algebra	3	3	0	0
	Number Theory	3	3	0	0
	Discrete Mathematics	3	3	0	0
	Classical Mechanics	3	3	0	0
	Introduction to Graph Theory	3	3	0	0

L=Lecture hours/week P=Practical hours/week T=Tutorial hours/week

Type of course	**Credits assigned**	**Range available**
Core Course	47	30-50
Program elective	21	15-24
Open elective	3	0-6
Dissertation	12	Oct-16
Total	**83**	**80-90**

Semester	**Credits assigned**	**Range available**
I	23	20-24
II	23	20-24
III	20	20-24
IV	17	Oct-18
Total	**83**	**80-90**

Total Credits to be earned in order to become eligible for award of M.Sc. (Mathematics) (Two Year Full Time) Degree: 83 Credits

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
DEPARTMENT Physics

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Classical Mechanics	CORE	Theory	4	3	1	0
2		Mathematical Physics	CORE	Theory	4	3	1	0
3		Electronics	CORE	Theory	4	3	1	0
4		Quantum Mechanics	CORE	Theory	4	3	1	0
5		Electronics Lab	CORE	LAB	4	0	0	8

Semester. II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Electrodynamics	CORE	Theory	4	3	1	0
2		Atomic & Molecular Spectroscopy	CORE	Theory	4	3	1	0
3		Statistical Mechanics	CORE	Theory	4	3	1	0
4		Nuclear and Particle Physics	CORE	Theory	4	3	1	0
5		Nuclear Physics & Spectroscopy Lab	CORE	LAB	4	0	0	8

Semester. III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Solid State Physics	CORE	Theory	4	3	1	0
2		Program Elective01	Program Elective	Theory	3	3	0	0
3		Program Elective02	Program Elective	Theory	3	3	0	0
4		Program Elective03	Program Elective	Theory	3	3	0	0
5		Solid State Physics Lab	CORE	LAB	4	0	0	8
6		Dissertation1	Dissertation	Dissertation	6	0	0	12

Semester. IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Program Elective04	Program Elective	Theory	3	3	0	0
2		Program Elective 05	Program Elective	Theory	3	3	0	0
3		Open Elective	Open Elective	Theory	3	3	0	0
4		Dissertation2	Dissertation	Dissertation	9	0	0	18

Malaviya National Institute of Technology Jaipur
Centre for Energy and Environment

ACADEMIC CURRICULUM
Master of Technology - Renewable Energy

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Photovoltaic Systems	Core	Taught course -Core	3	3	0	0
2		Solar Thermal Systems	Core	Taught course -Core	3	3	0	0
3		Bioenergy Systems	Core	Taught course -Core	3	3	0	0
4		------	Elective	Taught course -Program Elective	3	3	0	0
5		------	Elective	Taught course -Program Elective	3	3	0	0
6		Renewable Energy Laboratory	Core	Taught course -Core	3	0	0	6

Semester. II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Energy Management and Audit	Core	Taught course -Core	3	3	0	0
2		Energy Economics and Policies	Core	Taught course -Core	3	3	0	0
3		------	Elective	Taught course -Program Elective	3	3	0	0
4		------	Elective	Taught course -Program Elective	3	3	0	0
5		------	Elective	Taught course -Program Elective	3	3	0	0
6		------	Elective	Taught course -Program Elective	3	3	0	0

Semester. III

S. No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Seminar	Mandatory	Seminar	3	0	0	6
2		Dissertation	Mandatory	Dissertation	9	0	0	18

Semester. IV

S. No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation	Mandatory	Dissertation	12	0	0	24

List of Taught Courses

Sl. no.	Course code	Course title	Core/Elective	L-T-P
1		Photovoltaic Systems	Core	3-0-0
2		Solar Thermal Systems	Core	3-0-0
3		Bioenergy Systems	Core	3-0-0
4		Energy Audit and Management	Core	3-0-0
5		Energy Economics and Policies	Core	3-0-0
6		Renewable Energy Laboratory	Core	0-0-6
7		Energy Storage Technology	Elective	3-0-0
8		Energy Efficiency in Buildings	Elective	3-0-0
9		Wind Energy Systems	Elective	3-0-0
10		Hydro Energy Systems	Elective	3-0-0
11		Advanced Photovoltaic Systems	Elective	3-0-0
12		Renewable Integration Markets	Elective	3-0-0
13		Modeling and Optimization of Energy Systems	Elective	3-0-0
14		Smart Grid Systems	Elective	3-0-0
15		Solar Passive Heating and Cooling	Elective	3-0-0
16		Hydrogen Energy Technology	Elective	3-0-0
17		Energy Simulation	Elective	1-0-4
18		Seminar	Mandatory	0-0-6
19		Dissertation - I	Mandatory	0-0-18
20		Dissertation - II	Mandatory	0-0-24

Malaviya National Institute of Technology Jaipur
Proposed Revised Curriculum of M. Tech. Chemical Engineering

M. Tech I Semester Chemical Engineering

S. No.	Course Code	Course Title	Category	Type	Credit	L	T	P
1		Advanced Transport Phenomena	PC	Theory	3	3	0	0
2		Chemical Reactor Analysis	PC	Theory	3	3	0	0
3		Advanced Chemical Engineering Thermodynamics	PC	Theory	3	3	0	0
4		Elective-I	PE	Theory	3	3	0	0
5		Elective-II	PE	Theory	3	3	0	0
6		Elective-III	PE	Theory	3	3	0	0
		List of Electives						
1		Mathematical Methods in Chemical Engineering	PE	Theory	3	3	0	0
2		Optimization of Chemical Processes	PE	Theory	3	3	0	0
3		Chemical Process Safety and Management	PE	Theory	3	3	0	0
4		Petroleum Refining Engineering	PE	Theory	3	3	0	0
5		Waste to Energy Conversion	PE	Theory	3	3	0	0
6		Introduction to Soft Matter	PE	Theory	3	3	0	0
7		Advanced Separation Process	PE	Theory	3	3	0	0
8		Process integration & Intensification	PE	Theory	3	3	0	0
9		Molecular Modeling of Chemical Systems	PE	Theory	3	3	0	0

M. Tech II Semester Chemical Engineering

S. No.	Course Code	Course Title	Category	Type	Credit	L	T	P
1		Computational Methods in Chemical Engineering	PC	Theory	3	3	0	0
2		Modelling and Simulation	PC	Theory	3	3	0	0
3		Advanced Mass Transfer	PC	Theory	3	3	0	0
4		Elective-IV	PE	Theory	3	3	0	0
5		Elective-V	PE	Theory	3	3	0	0
6		Elective-VI	PE	Theory	3	3	0	0
		List of Electives						
1		Advanced Process Control	PE	Theory	3	3	0	0
2		Bioprocess Engineering	PE	Theory	3	3	0	0
3		Multiphase Reactors	PE	Theory	3	3	0	0
4		CFD Analysis in Chemical Engineering	PE	Theory	3	3	0	0
5		Pollution Control Systems	PE	Theory	3	3	0	0
6		Applied Statistics for Experimenters	PE	Theory	3	3	0	0
7		Advanced Heat Transfer	PE	Theory	3	3	0	0
8		Industry 4.0	PE	Theory	3	3	0	0
9		Statistical Thermodynamics	PE	Theory	3	3	0	0

ester Chemical Engineering

S.No.	Course Code	Course Title	Category	Type	Credit	L	T	P
1		Seminar	PC	-	2	-	-	-
2		Dissertation	PC	-	8	-	-	-

ester Chemical Engineering

S.No.	Course Code	Course Title	Category	Type	Credit	L	T	P
1		Dissertation	PC	Theory	14	-	-	-

L=Lecture hours/week P=Practical hours/week T=Tutorial hours/week

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
DEPARTMENT OF CIVIL ENGINEERING
M.Tech Civil Engineering (Disaster Assessment & Mitigation)

Semester I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Spatial Data Collection and Analysis	Program Core	Theory	3	3	0	0
2		Natural and Manmade Disasters	Program Core	Theory	3	3	0	0
3		Hazard, Vulnerability and Risk Assessment	Program Core	Theory	3	3	0	0
4		Spatial Data Analysis Laboratory	Program Core	Practical	1	0	0	2
5		Elective 1	Program Elective	Theory	3	3	0	0
6		Elective 2	Program Elective	Theory	2	2	0	0
7		Elective 3	Program Elective	Theory	3	3	0	0
				Total Semester Credits	18			

Semester II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Geoinformatics and Its Applications	Program Core	Theory	3	3	0	0
2		Climate Variability and Adaptation	Program Core	Theory	3	3	0	0
3		Rehabilitation, Reconstruction and Recovery	Program Core	Theory	3	3	0	0
4		Geoinformatics Laboratory	Program Core	Practical	1	0	0	2
5		Elective 4	Program Elective	Theory	3	3	0	0
6		Elective 5	Program Elective	Theory	2	2	0	0
7		Elective 6	Program Elective	Theory	3	3	0	0
				Total Semester Credits	18			

Semester III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Seminar/Minor Research Project	Program Core	Seminar	4	0	0	8
2		Dissertation	Program Core	Dissertation	8	0	0	16
				Total Semester Credits	12			

Semester IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation	Program Core	Dissertation	12	0	0	24
				Total Semester Credits	12			

Total Program Credits	60

Malaviya National Institute of Technology Jaipur

Department of Civil Engineering

M.Tech. (Environmental Engg.)

S. No.	Course Code	Course Title	Course Category	Type	Credits	Contact Hours/Week		
						L	T	P
Semester I								
1		Physicochemical Principles and Processes	Program Core	Theory	3	3	0	0
2		Biological Processes and Environmental Applications	Program Core	Theory	3	3	0	0
3		Air and Noise Pollution	Program Core	Theory	3	3	0	0
4		Environmental Laboratory	Program Core	Practical	1	0	0	2
5		Elective I	Program Elective	Theory	3	3	0	0
6		Elective II	Program Elective	Theory	2	2	0	0
7		Elective III	Program Elective	Theory	3	3	0	0
Total Semester Credits					**18**			
Semester II								
1		Solid and Hazardous Waste Management	Program Core	Theory	3	3	0	0
2		Environmental Impact Assessment	Program Core	Theory	3	3	0	0
3		Environmental Statistics and Modeling	Program Core	Theory	3	3	0	0
4		Simulation Laboratory	Program Core	Practical	1	0	0	2
5		Elective IV	Program Elective	Theory	3	3	0	0
6		Elective V	Program Elective	Theory	2	2	0	0
7		Elective VI	Program Elective	Theory	3	3	0	0
Total Semester Credits					**18**			
Semester III								
1		Seminar/ Minor Research Project	Program Core	Seminar	4	0	0	8
2		Dissertation	Program Core	Dissertation	8	0	0	16
Total Semester Credits					**12**			
Semester IV								
1		Dissertation	Program Core	Dissertation	12	0	0	24
Total Semester Credits					**12**			
Total Program Credits					**60**			

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
DEPARTMENT OF CIVIL ENGINEERING
M.Tech. (Structural Engineering)

Semester I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Advanced Structural Analysis	Program Core	Theory	4	4	0	0
2		Design of Advanced Concrete Structures	Program Core	Theory	4	4	0	0
3		Concrete Technology	Program Core	Theory	3	3	0	0
4		Elective 1 (Lab Course)	Program Elective	Practical	1	0	0	2
5		Elective 2	Program Elective	Theory	3	3	0	0
6		Elective 3	Program Elective	Theory	3	3	0	0
Total Semester Credits					**18**			

Semester II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Finite Element Method	Program Core	Theory	3	3	0	0
2		Structural Dynamics	Program Core	Theory	3	3	0	0
3		Plate and Shells	Program Core	Theory	3	3	0	0
4		Elective 4	Program Elective	Theory	3	3	0	0
5		Elective 5	Program Elective	Theory	3	3	0	0
6		Elective 6	Program Elective	Theory	3	3	0	0
Total Semester Credits					**18**			

Semester III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Seminar/Minor Research Project	Program Core	Seminar	4	0	0	8
2		Dissertation	Program Core	Dissertation	8	0	0	16
Total Semester Credits					**12**			

Semester IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation	Program Core	Dissertation	12	0	0	24
Total Semester Credits					**12**			
Total Program Credits					**60**			

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
DEPARTMENT OF CIVIL ENGINEERING
M.Tech (Transportation Engineering)

Semester I

S. No	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Highway Materials	Program Core	Theory	3	3	0	0
2		Pavement Analysis & Design	Program Core	Theory	3	3	0	0
3		Mathematics for Transportation Engineering	Program Core	Theory	3	3	0	0
4		Elective 1 (Lab Course)		Practical	1	0	0	2
5		Elective 2 (Lab Course)	Program Elective	Practical	1	0	0	2
6		Elective 3	Program Elective	Theory	3	3	0	0
7		Elective 4	Program Elective	Theory	3	3	0	0
				Total Semester Credits				**17**

Semester II

S. No	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Transportation Planning	Program Core	Theory	3	3	0	0
2		Intersection Analysis and Design	Program Core	Theory	3	3	0	0
3		Highway Sub-Grade and Foundation Analysis	Program Core	Theory	3	3	0	0
4		Elective 5	Program Elective	Theory	3	3	0	0
5		Elective 6	Program Elective	Theory	3	3	0	0
6		Elective 7	Program Elective	Theory	3	3	0	0
				Total Semester Credits				**18**

Semester III

S. No	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Seminar/Minor Research Project	Program Core	Seminar	4	---	---	8
2		Dissertation	Program Core	Dissertation	8	---	---	16
				Total Semester Credits				**12**

Semester IV

S. No	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation	Program Core	Disserta tion	12	---	---	24
Total Semester Credits								**12**
Total Credits of all Semesters								**59**

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

DEPARTMENT OF CIVIL ENGINEERING

Post Graduate Program Scheme - M.Tech. (Water Resources Engineering)

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Groundwater Hydrology	Program Core	Theory	3	3	0	0
2		Physical and Stochastic Hydrology	Program Core	Theory	3	3	0	0
3		Design of Water Resources Structures	Program Core	Theory	3	3	0	0
4		Elective 1 (Lab Course)	Program Elective	Practical	1	0	0	2
5		Elective 2	Program Elective	Theory	3	3	0	0
6		Elective 3	Program Elective	Theory	2	2	0	0
7		Elective 4	Program Elective	Theory	3	3	0	0
				Total Semester Credits	**18**			

Semester. II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Geo-informatics and its Applications	Program Core	Theory	3	3	0	0
2		Watershed Development and Management	Program Core	Theory	3	3	0	0
3		Introduction to CFD	Program Core	Theory	3	3	0	0
4		Elective 5 (Lab Course)	Program Elective	Practical	1	0	0	2
5		Elective 6	Program Elective	Theory	3	3	0	0
6		Elective 7	Program Elective	Theory	2	2	0	0
7		Elective 8	Open Elective	Theory	3	3	0	0
				Total Semester Credits	**18**			

Semester. III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Seminar/ Minor Research Project	Program Core	Seminar	4	0	0	8
2		Dissertation	Program Core	Dissertation	8	0	0	16
				Total Semester Credits	**12**			

Semester. IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation	Program Core	Dissertation	12	0	0	24
				Total Semester Credits	**12**			
				Total Program Credits	**60**			

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

DEPARTMENT of Computer Science and Engineering

M.Tech. Computer Science and Engineering

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Advanced Data Structures and Algorithms	PC	Theory	3	3	0	0
2		Parallel and Distributed Computing	PC	Theory	4	3	0	2
3		Advanced Databases	PC	Theory	3	3	0	0
4		Department Elective – 1	PE	Theory	3	3	0	0
5		Department Elective – 2	PE	Theory	3	3	0	0
6		Programming Lab-1	PC	Lab	2	0	1	2
				Total	**18**			

Semester. II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Research Methodology	PC	Theory	2	2	0	0
2		Department Elective – 3	PE	Theory	3	3	0	0
3		Department Elective – 4	PE	Theory	3	3	0	0
4		Department Elective – 5	PE	Theory	3	3	0	0
5		Department Elective – 6	PE	Theory	3	3	0	0
6		Programming Lab-2	PC	Lab	2	0	1	2
7		Design Lab /Computing Tools	PC	Lab	2	0	1	2
				Total	**18**			

Semester. III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Technical Documentation and Presentation	PC	---	2	0	1	2
2		Literature Review	PC	---	2	0	1	2
3		Dissertation – 1	PC	---	8	0	0	16
				Total	**12**			

Semester. IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation – 2	PC	---	12	0	0	24
				Total	**12**			

Total Credits: 60

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

DEPARTMENT of Computer Science and Engineering

M.Tech. Computer Science and Information Security

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Cryptography	PC	Theory	3	3	0	0
2		Advanced Data Structures and Algorithms	PC	Theory	3	3	0	0
3		Computer and Network Security	PC	Theory	4	3	0	2
4		Department Elective – 1	PE	Theory	3	3	0	0
5		Department Elective – 2	PE	Theory	3	3	0	0
6		Programming Lab-1	PC	Lab	2	0	1	2
				Total	**18**			

Semester. II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Research Methodology	PC	Theory	2	2	0	0
2		Department Elective – 3	PE	Theory	3	3	0	0
3		Department Elective – 4	PE	Theory	3	3	0	0
4		Department Elective – 5	PE	Theory	3	3	0	0
5		Department Elective – 6	PE	Theory	3	3	0	0
6		Design Lab	PC	Lab	2	0	1	2
7		Security Tools Lab	PC	Lab	2	0	1	2
				Total	**18**			

Semester. III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Technical Documentation and Presentation	PC	---	2	0	1	2
2		Literature Review	PC	---	2	0	1	2
3		Dissertation – 1	PC	---	8	0	0	16
				Total	**12**			

Semester. IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation – 2	PC	---	12	0	0	24
				Total	**12**			

Total Credits: 60

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

M.Tech. ECE Scheme

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Advanced Digital Communication Systems	Program Core	Theory	3	3	0	0
2		Advanced Microwave Engineering	Program Core	Theory	3	3	0	0
3		Mathematical Modelling and Simulation for Communication System	Program Core	Theory	2	2	0	0
4		Program Elective-I	Program Elective	Theory	3	3	0	0
5		Program Elective-II	Program Elective	Theory	3	3	0	0
6		Communication Lab-I	Program Core	Lab	3	0	0	3
Total Semester Credit					**17**			

Semester. II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Advanced Antenna Engineering	Program Core	Theory	3	3	0	0
2		Advanced Mobile and Wireless Networking	Program Core	Theory	3	3	0	0
3		Program Elective-III	Program Elective	Theory	3	3	0	0
4		Program Elective-IV	Program Elective	Theory	3	3	0	0
5		Program Elective-V	Program Elective	Theory	3	3	0	0
6		Communication Lab-II	Program Core	Lab	2	0	0	2
7		Program Elective-V	Program Elective	Lab	1	0	0	2
Total Semester Credit					**18**			

Semester. III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation	Program Core	Dissertation	8	0	0	16
2		Minor Project	Program Core	Research Project	4	0	0	8
Total Semester Credit					**12**			

Semester. IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation	Program Core	Dissertation	12	0	0	24
Total Semester Credit					**12**			
Total credits of all semesters					**59**			

Credit Summary				
Semester I	Program Core Courses	11	Taught Courses	17
	Program Electives	6		
Semester II	Program Core Courses	8	Taught Courses	18
	Program Electives	10		
Semester III	Dissertation	8	Dissertation, Research Project	12
	Research Project	4		
Semester IV	Dissertation	12	Dissertation	12
	Total	**59**	**Total**	**59**

Category	Credits
Program Core	**19**
Program Electives	**16**
Open Elective	**0**
Dissertation, Research Project, Seminar	**24**
Total Credits	**59**

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
M.Tech. ECE Scheme (Embedded)

Subject Code	Course Title	Category	Type	Credits Total	L T P
Semester 1 (Taught Courses-6)					
	Data Structures & Algorithms	Core	Theory	3	3-0-0
	Advanced Microcomputer Systems & Interfacing	Core	Theory	3	3-0-0
	Reduced order Modeling, Optimization & Machine intelligence	Core	Theory	2	2-0-0
	Hardware Systems Lab	Core	Lab	1.5	0-0-3
	Software Systems lab	Core	Lab	1.5	0-0-3
	(Elective Courses)[**]				
	Program Elective (PE-1)	Elective	Theory	3	
	Program Elective (PE-2)	Elective	Theory	3	
	Total Semester Credits			**11+6=17**	
Semester 2 (Taught courses- 5)					
	Computer vision	Core	Theory	3	3-0-0
	System Design Lab	Core	Lab	3	0-0-6
	Technical Documentation	Core	Theory	1	0-0-2
	[Minor Project (Research Project)] [†]				
	(Elective Courses)**				
	Program Electives (PE-3)	Elective	Theory	3	
	Program Electives (PE-4)	Elective	Theory	3	
	Program Electives (PE-5)	Elective	Theory	3	
	MOOC[‡]	Optional	Blended		
	Total Semester Credits			**7+9=16**	
	List of Elective Courses				
	Computer Arithmetic & Micro-architecture Design		Theory	3	3-0-0
	Graph Algorithms & Combinatorial optimization		Theory	3	3-0-0
	System Level Design & Modeling		Theory	3	3-0-0
	VLSI Testing & Testability		Theory	3	3-0-0
	Formal Verification of Digital Hardware & Embedded Software		Theory	3	3-0-0
	Memory Design & Testing		Theory	3	3-0-0
	Advance Computer Architecture		Theory	3	3-0-0
	Digital System Design & FPGAs		Theory	3	3-0-0
	Embedded SoC Design		Theory	3	3-0-0
	Micro-& Nano-electro-mechanical Systems (MEMS & NEMS)		Theory	3	3-0-0
	Design of Asynchronous Sequential Circuits		Theory	3	3-0-0
	FPGA's Physical Design		Theory	3	3-0-0
	Languages for (i) Hardware Description, (ii) Scripting and (iii) Simulation/verification; (alternately, 1-credit each for these parts)		Theory	3	3-0-0
	RF MEMS		Theory	3	3-0-0
	RF Integrated Circuits		Theory	3	3-0-0
	Adaptive Signal Processing		Theory	3	3-0-0
	VLSI Signal Processing Architectures		Theory	3	3-0-0
	Advanced Digital Signal & Image Processing		Theory	3	3-0-0
	Wireless Sensor Networks		Theory	3	3-0-0
	CAD Algorithms for Synthesis of VLSI Systems		Theory	3	3-0-0
	Advanced Embedded software design		Theory	3	3-0-0
	Pattern Analysis & Machine intelligence		Theory	3	3-0-0
	Internet of Things (IoE) & IIoT		Theory	3	3-0-0
	Probabilistic Machine Learning & AI		Theory	3	3-0-0
	Medical Engineering & Systems		Theory	3	3-0-0
	Embedded Intelligent Systems		Theory	3	3-0-0

	Quantum Computing		Theory	3	3-0-0
			Theory	3	3-0-0
	Parallel & Distributed Systems		Theory	3	3-0-0
	Modeling, Optimization & Transforms		Theory	2	2-0-0
	Modeling & Simulation for Communication Engineering		Theory	2	2-0-0
	Mathematical Methods & Techniques for ECE Technologists-II		Theory	3	3-0-0
Fractional credit courses					
	Special Modules in Embedded Systems Design-I		Theory	1	1-0-0
	Special Modules in Embedded Systems Design-II		Theory	1	1-0-0
	Special Modules in Embedded Systems Design-III		Theory	1	1-0-0
	Special Modules in Embedded Systems Design-IV		Theory	1	1-0-0
	Hardware Description Language		Theory	1	1-0-0
	Scripting Language		Theory	1	1-0-0
	Language to support Simulation/verification		Theory	1	1-0-0
Semester 3					
	Minor Project (Research Project)[%]	Core	Research project	4	0-0-8
	Dissertation	Core	Dissertation	6	0 0 12
	Total Semester Credits			**4+6=10**	
Semester 4					
	Dissertation	Core	Dissertation	12	(0 0 24)
	Total Semester Credits			**12**	
	Total minimum Credits of all semesters (a student might cover more credits > 55)			**55**	

Sem I	Taught courses + Lab	17
Sem II	Taught courses	16
Sem III	Minor Project (Research Project), Dissertation	4+6=10
Sem IV	Dissertation	12
	Total	**55**

Programme core	18
Programme electives	15
Open elective	0
Minor Project (Research project)	4
Dissertation	18
Total	**55**

[†] The Minor/Research project is placed in 3rd Semester only. However, for students desirous of INTENRSHIP in 3rd Semester, this Minor project (Research Project) would have to be completed in 2nd Semester.

[‡] MOOC course is OPTIONAL and over and above the scheme credits, i.e. NOT mandatory and not counted towards minimum credits required for degree

[§] Only one course out of ECT910/ECT992, or ECT912/ECT914

[**] The students may opt for any course from MTech (Embedded Systems) or MTech (VLSI)

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

DEPARTMENT: Electronics and Communication Engineering

M.Tech. Specialization: Wireless and Optical Communications

Semester I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Advanced Digital Communication Systems	Core	Theory	3	3	0	0
2		Wireless Communications	Core	Theory	3	3	0	0
3		Advanced Optical Communication Systems	Core	Theory	3	3	0	0
4		Modeling, Optimization & Transforms (RM-II)*	Core	Theory	2	2	0	0
5		Communication lab-1	Core	Lab	3	0	0	6
6		Program Elective (PE-1)	Program Elective	Theory	3	3	0	0

Semester II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Optical Networks	Core	Theory	3	3	0	0
2		Communication lab-2	Core	Lab	2	0	0	2
3		Technical Documentation	Program Elective	Lab	1	0	0	2
4		Program Elective (PE-2)	Program Elective	Theory	3	3	0	0
5		Program Elective (PE-3)	Program Elective	Theory	3	3	0	0
6		Program Elective (PE-4)	Program Elective	Theory	3	3	0	0
7		Program Elective (PE-5)	Program Elective	Theory	3	3	0	0

Semester III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation	Core	Lab	6	0	0	12
2		Research Project	Core	Lab	4	0	0	8

Semester IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation	Core	Lab	12	0	0	24

*ECT910: Modeling, Optimization & Transforms (RM-II) is Research Methodology Part B for PhD scholars

Course Structure

Semester	Courses	Total Credits
I	Taught Courses	17
II	Taught Courses	18
III	Dissertation, Research Project	10
IV	Dissertation	12
	Total Credits	57

Credit Distribution

Program Core (Excluding dissertation)	19
Program Elective	16
Open Elective	0
Research Project, Dissertation	22

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
Scheme of Master of Technology in **VLSI Design**

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1	ECT601	Digital IC Design	Programme Core	Theory	3	3	0	0
2	ECT621	Advanced Semiconductor Devices	Programme Core	Theory	3	3	0	0
3	ECT633	Analog IC Design	Programme Core	Theory	3	3	0	0
4	ECT912	Reduced order Modeling, Optimization & Machine intelligence	Programme Core	Theory	2	2	0	0
5	ECP611	Semiconductor Devices and IC Simulation Lab	Programme Core	Laboratory	1	0	0	2
6	-	Program Elective (PE-1)	Program Elective	Theory	3	3	0	0
7	-	Program Elective (PE-2)	Program Elective	Theory	3	3	0	0
Total Credits					18			

Semester. II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Micro-& Nano- electro-mechanical Systems (MEMS & NEMS)	Programme Core	Theory	3	3	0	0
2		System Design Lab	Programme Core	Laboratory	3	0	0	6
3		Technical Documentation	Programme Core	Theory	1	0	0	2
4		Program Elective (PE-3)	Program Elective	Theory	3	3	0	0
5		Program Elective (PE-4)	Program Elective	Theory	3	3	0	0
6		Program Elective (PE-5)	Program Elective	Theory	3	3	0	0
7		MOOC Course #			######			
Total Credits					16			

Semester. III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation	Dissertation		6	0	0	12
2		Minor Project (Research Project)	Research Project		4	0	0	4
Total Credits					10			

Semester. IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation	Dissertation		12	0	0	24
Total Credits					12			

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
DEPARTMENT OF ELECTRICAL ENGINEERING
M. Tech- Power Electronics & Drives (Full Time)

Semester I

S. No.	Course Code	Course Title	Course Category	Type	Credits	L	T	P
1		Power Conversion Techniques	Program Core	Theory	3	2	1	0
2		Intelligent Control Techniques	Program Core	Theory	3	2	1	0
3		Electric Drives and their Control	Program Core	Theory	3	2	1	0
4			Program Elective	Theory	3	2	1	0
5			Program Elective	Theory	3	2	1	0
6		Power Electronics & Drives Lab	Program Core	Lab	3	0	0	6

Semester II

S. No.	Course Code	Course Title	Course Category	Type	Credits	L	T	P
1		Industrial Control Electronics	Program Core	Theory	3	2	1	0
2		Switched Mode Power Conversion	Program Core	Theory	3	2	1	0
3			Program Elective	Theory	3	2	1	0
4			Program Elective	Theory	3	2	1	0
5			Program Elective	Theory	3	2	1	0
6			Open Elective	Theory	3	2	1	0

Semester III

S. No.	Course Code	Course Title	Course Category	Type	Credits	L	T	P
1		Seminar	Program Core	Seminar	3			
2		Dissertation	Program Core	Dissertation	7			

Semester IV

S. No.	Course Code	Course Title	Course Category	Type	Credits	L	T	P
1		Dissertation	Program Core	Dissertation	14			

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
DEPARTMENT OF ELECTRICAL ENGINEERING
M.Tech. Power Systems (Full Time)

Semester I

S. No.	Course Code	Course Title	Course Category	Type	Credits	L	T	P
1		Power System Analysis	Program Core	Theory	3	2	1	0
2		Advanced Power System Protection	Program Core	Theory	3	2	1	0
3		Power Electronics	Program Core	Theory	3	2	1	0
4		Power System Lab	Program Core	Lab	3	0	0	6
5			Program Elective	Theory	3	2	1	0
6			Program Elective	Theory	3	2	1	0

Semester II

S. No.	Course Code	Course Title	Course Category	Type	Credits	L	T	P
1		Power System Stability	Program Core	Theory	3	2	1	0
2		Power System Optimization and Control	Program Core	Theory	3	2	1	0
3			Program Elective	Theory	3	2	1	0
4			Program Elective	Theory	3	2	1	0
5			Program Elective	Theory	3	2	1	0
6			Open Elective	Theory	3	2	1	0

Semester III

S. No.	Course Code	Course Title	Course Category	Type	Credits	L	T	P
1		Seminar	Program Core	Seminar	3			
2		Dissertation	Program Core	Dissertation	7			

Semester IV

S. No.	Course Code	Course Title	Course Category	Type	Credits	L	T	P
1		Dissertation	Program Core	Dissertation	14			

Malaviya National Institute of Technology, Jaipur

Department of Electrical Engineering

Scheme for **M.Tech (Power Systems Management)** as per R & R manual of PG Programmes

PROGRAM STRUCTURE

M. TECH. PROGRAMME STRUCTURE (FULL TIME)

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Optimal Operation and Control of Power Systems	Programme Core	Theory	3	2	1	0
2		Power System Restructuring and Deregulation	Programme Core	Theory	3	2	1	0
3		Power Markets, Economics and System Operation	Programme Core	Theory	3	2	1	0
4		Power Systems Management Laboratory	Programme Core	Lab	3	0	0	6
5			Programme Elective	Theory	3	2	1	0
6			Programme Elective	Theory	3	2	1	0
				Total Credits	18			

Semester. II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Distributed Energy Integration	Programme Core	Theory	3	2	1	0
2		Smart Energy Management Systems	Programme Core	Theory	3	2	1	0
3			Programme Elective	Theory	3	2	1	0
4			Programme Elective	Theory	3	2	1	0
5			Programme Elective	Theory	3	2	1	0
6			Open Elective	Theory	3	2	1	0
				Total Credits	18			

Semester. III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Seminar	Programme Core	Seminar	3			
2		Dissertation	Programme Core	Dissertation	7			
				Total Credits	10			

Semester. IV

S.No.	Course Category	Type	Credit	L	T	P
1		Dissertation	14			

Total Credits in M.Tech.(PSM) Full Time

Semester	Credits
I	18
II	18
III	10
IV	14
Total Credits	60

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

DEPARTMENT /CENTER: Department of Mechanical Engineering

Scheme for Master of Technology in Design Engineering

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Theory of Elasticity and Plasticity	Theory	Program Core	3	3	0	0
2		Advanced Dynamics and Vibrations	Theory	Program Core	3	3	0	0
3		Advanced Engineering Mathematics	Theory	Program Core	3	3	0	0
4		Vibration and Analysis Lab	Laboratory	Program Core	1	0	0	2
5		Program Elective- I	Theory	Program Elective	3	3	0	0
6		Program Elective- II	Theory	Program Elective	3	3	0	0
Total Semester Credits					16			

Semester. II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Advanced Finite Element Methods	Theory	Program Core	3	3	0	0
2		Modeling and Simulation of Dynamics Systems	Theory	Program Core	3	3	0	0
3		CAD/CAE Lab	Laboratory	Program Core	1	0	0	2
4		Modelling and Simulation of Dynamic Systems Lab	Laboratory	Program Core	1	0	0	2
5		Program Elective- III	Theory	Program Elective	3	3	0	0
6		Program Elective- IV	Theory	Program Elective	3	3	0	0
7		Program Elective- V	Theory	Program Elective	3	3	0	0
Total Semester Credits					17			

Semester. III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Seminar	Seminar	Seminar	4	0	0	4
2		Dissertation	Research	Dissertation	8	0	0	8
Total Semester Credits					12			

Semester. IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation	Research	Dissertation	12	0	0	12
Total Semester Credits					12			

Code	Code	Course Name	Credit (L-T-P)
List of Program Electives			
#		Design against Fracture and Fatigue	3 (3-0-0)
#		Robotics and Control	3 (3-0-0)
#		Rotor Dynamics	3 (3-0-0)
# #		Dynamics of Multibody Systems and Applications	3 (3-0-0)
#		Design of Mechanisms	3 (3-0-0)
#		Mechanics of Composite Materials	3 (3-0-0)
#		Experimental Stress Analysis	3 (3-0-0)
#		Mechanical Behavior of Materials	3 (3-0-0)
# #		Machinery Fault Diagnostics and Signal Processing	3 (3-0-0)
#		Data Acquisition and Control Lab	1 (0-0-2)
#		Computer Aided Fluid Dynamics	3 (3-0-0)

Credit Distribution among different types of courses is as under

Type of courses	Credits	Range as per scheme
Program core (PC)	18	18-21
Program elective (PE)	15	15-21
Open elective (OE)	0	0-6
Research project, seminar, dissertation	24	16-24
Total	57	54-60

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

DEPARTMENT /CENTER: Department of Mechanical Engineering

M. Tech. : Industrial Engineering

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Applied Statistics	Lecture	PC	3	3	0	0
2		Advance Optimization Techniques	Lecture	PC	3	3	0	0
3		Work System Design	Lecture	PC	3	3	0	0
4		Program Elective-I	Lecture	PE	3	3	0	0
5		Program Elective-II	Lecture	PE	3	3	0	0
6		Program Elective-III	Lecture	PE	3	3	0	0
					18			

Semester. II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Supply Chain Management	Lecture	PC	3	3	0	0
2		Quality System Engineering	Lecture	PC	3	3	0	0
3		Advanced Operations Planning & Control	Lecture	PC	3	3	0	0
4		Ergonomics Lab	Laboratory	PC	1	0	0	2
5		Simulation and Optimization Lab	Lecture	PC	1	0	0	2
6		Program Elective-IV	Lecture	PE	3	3	0	0
7		Program Elective-V	Lecture	PE	3	3	0	0
					17			

Semester. III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Seminar	Seminar	PC	4	0	0	4
2		Dissertation	Research	PC	6	0	0	6
					10			

Semester. IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation	Research	PC	12	0	0	12
					12			

*PC= Program Core; PE= Program Elective; OE=Open Elective

List of Program Elective (PE)				
Course Code	Course Title	Course Category	Credit	L-T-P
	Project Management	PE	3	3-0-0
	Artificial Intelligence in Manufacturing Systems	PE	3	3-0-0
	Manufacturing Strategy	PE	3	3-0-0
	Reliability Engineering	PE	3	3-0-0
	Product Design and Development	PE	3	3-0-0
	Human Factor Engineering	PE	3	3-0-0
	Productivity Engineering	PE	3	3-0-0
	Six Sigma & Lean Manufacturing	PE	3	3-0-0
	Smart Manufacturing Systems	PE	3	3-0-0
	Machine Learning in Manufacturing Systems	PE	3	3-0-0
	System Modling and Simulations	PE	3	3-0-0
	Sustainable Manufacturing	PE	3	3-0-0
	Service System Design	PE	3	3-0-0

Credit Distribution among different types of courses is as under

Type of courses	Credits	Range as per scheme
Program core (PC)	20	18-21
Program elective (PE)	15	15-21
Open elective (OE)	0	0-3
Research project, seminar dissertation	22	16-24
Total	57	54-60

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

DEPARTMENT: MECHANICAL ENGINEERING

Scheme for Master of Technology in Production Engineering

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1.		Advanced Manufacturing Technologies (AMTs)	Lecture	PC	3	3	0	0
2.		Theory of Machining & Forming Processes	Lecture	PC	3	3	0	0
3.		CAD/CAM & Robotics	Lecture	PC	3	3	0	0
4.		Advanced Manufacturing Technologies (AMTs) Laboratory	Laboratory	PC	1	0	0	2
5.		Program Elective- I	Lecture	PE	3	3	0	0
6.		Program Elective- II	Lecture	PE	3	3	0	0
7.		Program Elective- III	Lecture	PE	3	3	0	0
		Total Semester Credits			19			

Semester. II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1.		Welding & Casting Technology	Lecture	PC	3	3	0	0
2.		Industrial Tribology	Lecture	PC	3	3	0	0
3.		Quality Management	Lecture	PC	3	3	0	0
4.		Industrial Tribology Laboratory	Laboratory	PC	1	0	0	2
5.		Welding & Casting Technology Laboratory	Laboratory	PC	1	0	0	2
6.		Program Elective- IV	Lecture	PE	3	3	0	0
7.		Program Elective- V	Lecture	PE	3	3	0	0
		Total Semester Credits			17			

Semester. III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1.		Seminar	Seminar	PC	4	0	0	4
2.		Dissertation	Research	PC	6	0	0	6
		Total Semester Credits			10			

Semester. IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1.		Dissertation	Research	PC	12	0	0	12
		Total Semester Credits			12			

*PC= Program Core; PE= Program Elective

List of Program Elective (PE)

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1.		Modeling & Simulation	Lecture	PE	3	3	0	0
2.		Composite Materials & Processing	Lecture	PE	3	3	0	0
3.		Advanced Robotics and Expert Systems	Lecture	PE	3	3	0	0
4.		MEMS & NEMS	Lecture	PE	3	3	0	0
5.		Experimental Stress Analysis	Lecture	PE	3	3	0	0
6.		Product Design & Development	Lecture	PE	3	3	0	0
7.		Precision Manufacturing	Lecture	PE	3	3	0	0
8.		Mechatronics for Intelligent Manufacturing	Lecture	PE	3	3	0	0
9.		Polymers & their Processing	Lecture	PE	3	3	0	0
10.		Rapid Prototyping & Tooling	Lecture	PE	3	3	0	0
11.		Tool Design & Engineering	Lecture	PE	3	3	0	0
12.		Maintenance Management	Lecture	PE	3	3	0	0

*PC= Program Core; PE= Program Elective

Credit Distribution among different types of courses is as under

Type of courses	Credits	Range as per scheme
Program core (PC)	21	18-21
Program elective (PE)	15	15-21
Open elective (OE)	0	0-6
Research project, seminar, dissertation	22	16-24
Total	58	54-60

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

DEPARTMENT /CENTER:Department of Mechanical Engineering

Master of Technology in Thermal Engineering

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Design of Thermal System	Theory	PC	3	3	0	0
2		Advanced Fluid Mechanics	Theory	PC	3	3	0	0
3		Advance Heat Transfer	Theory	PC	3	3	0	0
4		Computational Fluid Dynamics	Theory	PC	3	3	0	0
5		Advanced Thermodynamics	Theory	PC	3	3	0	0
6		Thermal Lab	Laboratory	PC	2	0	0	4
		Total Semester Credits			17			

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Program Elective-I	Theory	PE	3	3	0	0
2		Program Elective-II	Theory	PE	3	3	0	0
3		Program Elective-III	Theory	PE	3	3	0	0
4		Program Elective-IV	Theory	PE	3	3	0	0
5		Program Elective-V	Theory	PE	3	3	0	0
6		CFD Lab	Laboratory	PC	2	0	0	4
		Total Semester Credits			17			

Semester. III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Seminar	Seminar	Seminar	4	0	0	4
2		Dissertation	Research	Research	8	0	0	8
		Total Semester Credits			12			

Semester. IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
2		Dissertation	Research	Research	12	0	0	12
		Total Semester Credits			12			

	Subject Code	Course Title	Credits Total (LTP)
List of Program Electives			
1.		Simulation and Modeling	3 (3- 0- 0)
2.		Energy Management	3 (3- 0- 0)
3.		Refrigeration and Air-conditioning Systems	3 (3- 0- 0)
4.		Advanced Refrigeration	3 (3- 0- 0)
5.		Alternative Fuels in I.C. Engine	3 (3- 0- 0)
6.		Wind Energy Utilization	3 (3- 0- 0)
7.		Pollution Control Technologies	3 (3- 0- 0)
8.		Solar Thermal Engineering	3 (3- 0- 0)
9.		Energy Conversion Technologies	3 (3- 0- 0)
10.		Heat Exchanger Design	3 (3- 0- 0)
List of Open Electives			
Supervisor and Program Advisor. There is no requirement of any Open Elective			

Credit Distribution among different types of courses is as under

Type of courses	Credits	Range as per scheme
Program core (PC)	19	18-21
Program elective (PE)	15	15-21
Open elective (OE)	0	0-6
Research project, seminar, dissertation	24	16-24
Total	58	54-60

Malaviya National Institute of Technology Jaipur

Revised Curriculum of M. Tech. (Metallurgical and Materials Engineering)

M. Tech I Semester

S. No.	Course Code	Course Title	Cate gory	Type	Credit	L	T	P
1		Advanced Metallurgical Thermodynamics	PC	Theory	3	3	0	0
2		Materials Characterization	PC	Theory	3	3	0	0
3		Structure-Properties of Materials	PC	Theory	3	3	0	0
4		Program Elective-I	PE	Theory	3	3	0	0
5		Program Elective-II	PE	Theory	3	3	0	0
6		Metallurgical Laboratory	PC	Lab	2	0	0	4
					17			
List of Electives								
1		Advances in Heat Treatment	E-1	Theory	3	3	0	0
2		Corrosion and Its Prevention	E-1	Theory	3	3	0	0
3		Joining of Materials	E-1	Theory	3	3	0	0
4		Nanomaterials: Processing and Properties	E-2	Theory	3	3	0	0
5		Physical Metallurgy of Alloy Steels	E-2	Theory	3	3	0	0
6		Properties and Processing of Polymers	E-2	Theory	3	3	0	0

M. Tech II Semester

S. No.	Course Code	Course Title	Category	Type	Credit	L	T	P
1		Mechanical Behavior of Materials	PC	Theory	3	3	0	0
2		Composite Materials	PC	Theory	3	3	0	0
3		Advanced Physical Metallurgy	PC	Theory	3	3	0	0
4		Program Elective-I	PE	Theory	3	3	0	0
5		Program Elective-II	PE	Theory	3	3	0	0
6		Program Elective-III	PE	Theory	3	3	0	0
					18			
List of Electives								
1		Surface Engineering	E-1	Theory	3	3	0	0
2		Fracture and Failure Analysis	E-1	Theory	3	3	0	0
3		Light Metals and Alloys	E-1	Theory	3	3	0	0
4		Powder Metallurgy and Particulate Materials Processing	E-2	Theory	3	3	0	0
5		Non-Destructive Testing and Evaluation	E-2	Theory	3	3	0	0
6		Secondary Steel Making	E-2	Theory	3	3	0	0
7		Advanced Ceramics and Glasses	E-3	Theory	3	3	0	0
8		Functional Materials	E-3	Theory	3	3	0	0
9		Extraction of Metals	E-3	Theory	3	3	0	0
10		Transport Phenomena in Materials Processes	E-3	Theory	3	3	0	0

M. Tech III Semester

Sr. No.	Course Code	Course Title	Category	Type	Credit	L	T	P
1		Seminar *	PC	-	2	0	0	4
2		Dissertation-I	PC	-	10	0	0	20

organization for 4-8 weeks during summer vacation after Semester-II and will present a seminar in semester-III.

ch IV Semester

Sr. No.	Course Code	Course Title	Category	Type	Credit	L	T	P
1		Dissertation-II	PC	-	12	0	0	24

L=Lecture hours/week P=Practical hours/week T=Tutorial hours/week

Malaviya National Institute of Technology Jaipur

Revised Curriculum of M. Tech. (Steel Technology)

M. Tech I Semester

S. No.	Course Code	Course Title	Category	Type	Credit	L	T	P
1		Advanced Metallurgical Thermodynamics	PC	Theory	3	3	0	0
2		Materials Characterization	PC	Theory	3	3	0	0
3		Advanced Manufacturing Processes of Steels	PC	Theory	3	3	0	0
4		Program Elective-I	PE	Theory	3	3	0	0
5		Program Elective-II	PE	Theory	3	3	0	0
6		Microstructure Property Correlation Lab	PC	Lab	2	0	0	4
					17			
List of Electives								
1		Advances in Heat Treatment	E-1	Theory	3	3	0	0
2		Corrosion and its Prevention	E-1	Theory	3	3	0	0
3		Steels for Structural Applications	E-1	Theory	3	3	0	0
4		Physical Metallurgy of Alloy Steels	E-2	Theory	3	3	0	0
5		Mathematical Modeling and Simulation in Materials Processing	E-2	Theory	3	3	0	0
6		Advanced Foundry Technology	E-2	Theory	3	3	0	0

L=Lecture hours/week, P=Practical hours/week, T=Tutorial hours/week

M. Tech II Semester

S. No.	Course Code	Course Title	Category	Type	Credit	L	T	P
1		Advances in Iron making and Steel making	PC	Theory	3	3	0	0
2		Advanced Physical Metallurgy	PC	Theory	3	3	0	0
3		Advanced Solidification Processing of Steels	PC	Theory	3	3	0	0
4		Program Elective-I	PE	Theory	3	3	0	0
5		Program Elective-II	PE	Theory	3	3	0	0
6		Program Elective-III	PE	Theory	3	3	0	0
					18			
List of Electives								
1		Surface Engineering	E-1	Theory	3	3	0	0
2		Fracture and Failures Analysis	E-1	Theory	3	3	0	0
3		Mechanical Behavior of Steels	E-1	Theory	3	3	0	0
4		Powder Metallurgy and Particulate Materials Processing	E-2	Theory	3	3	0	0
5		Non-Destructive Testing and Evaluation	E-2	Theory	3	3	0	0
6		Transport Phenomena in Materials Processes	E-2	Theory	3	3	0	0
7		Advanced Ceramics and Glasses	E-3	Theory	3	3	0	0
8		Functional Materials	E-3	Theory	3	3	0	0
9		Advanced Welding Technology of Steel	E-3	Theory	3	3	0	0

L=Lecture hours/week, P=Practical hours/week, T=Tutorial hours/week

ch III Semester

S. No.	Course Code	Course Title	Category	Type	Credit	L	T	P
1		Seminar *	PC	-	2	0		4
2		Dissertation-I	PC	-	10	0		20

**** In lieu of seminar, interested students may be encouraged to do an internship in an industry/research organization***

ch IV Semester

S. No.	Course Code	Course Title	Category	Type	Credit	L	T	P
1		Dissertation-II	PC	Theory	12	0	0	24

L=Lecture hours/week P=Practical hours/week T=Tutorial hours/week

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
MATERIALS RESEARCH CENTRE

Semester. I

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Design of Materials	Program Core	Theory	3	3	0	0
2		Synthesis and Properties of Materials	Program Core	Theory	3	3	0	0
3		Material Characterization Techniques	Program Core	Theory	3	3	0	0
4		Elective I	Program Elective	Theory	3	3	0	0
5		Elective II	Program Elective	Theory	3	3	0	0
6		Material synthesis and Characterization Lab	Program Core	Lab	3	0	0	6
		List of Electives						
1		Colloids and Surfaces	Program Elective	Theory	3	3	0	0
2		Computational Materials Engineering	Program Elective	Theory	3	2	0	2
3		Introduction to Soft Materials	Program Elective	Theory	3	3	0	0
4		Ceramic Materials & Properties	Program Elective	Theory	3	3	0	0
5		Organic Electronics	Program Elective	Theory	3	3	0	0
6		Polymer Science & Processing Technology	Program Elective	Theory	3	3	0	0
7		Optoelectronic Materials and Devices	Program Elective	Theory	3	3	0	0
8		Biomaterials	Program Elective	Theory	3	3	0	0
9		Smart & Intelligent Materials	Program Elective	Theory	3	3	0	0
10		Technology Transfer and Intellectual Property (IP) Commercialisation	Program Elective	Theory	3	3	0	0

Semester. II

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Compound Semiconducting Devices	Program Core	Theory	3	3	0	0
2		Thermodynamics and Kinetics of Materials	Program Core	Theory	3	3	0	0
3		Spectroscopic & Microscopic Techniques for Material Characterization	Program Core	Theory	3	3	0	0
4		Elective III	Program Elective	Theory	3	3	0	0
5		Elective IV	Program Elective	Theory	3	3	0	0
6		Elective V	Program Elective	Lab	3	0	0	6
		List of Electives						
1		Nanomaterials Technology	Program Elective	Theory	3	3	0	0
2		Advanced Polymer Physics	Program Elective	Theory	3	2	0	2
3		Advanced ceramics	Program Elective	Theory	3	3	0	0
4		Degradation of Materials	Program Elective	Theory	3	3	0	0
5		Thin films and Surface Engineering	Program Elective	Theory	3	3	0	0
6		Material Processing & Microstructure Development	Program Elective	Theory	3	3	0	0
7		Energy Materials	Program Elective	Theory	3	3	0	0
8		Nano Manufacturing	Program Elective	Theory	3	3	0	0
9		Nanomechanics	Program Elective	Theory	3	3	0	0
10		Membrane Technology	Program Elective	Theory	3	3	0	0
		List of Elective Labs						
1		Thin Film fabrication & Characterization Lab	Program Elective	Lab	3	0	0	6
2		Spectroscopy Lab	Program Elective	Lab	3	0	0	6
3		Microscopy Lab	Program Elective	Lab	3	0	0	6

Semester. III

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Seminar	Program Core	-	3	0	0	6
2		Dissertation - I	Program Core	-	9	0	0	18

Semester. IV

S.No.	Course Code	Course Title	Course Category	Type	Credit	L	T	P
1		Dissertation - II	Program Core	-	12	0	0	24

Master of Technology in Earthquake Engineering
National Centre for Disaster Mitigation and Management
(Revised Scheme July 2021)

Code	Course Title	Type	Credit (L-T-P)
Semester 1			
	1. Earthquake Structural Dynamics	PC	4(3 1 0)
	2. Earthquake Resistant Design of Steel Structures	PC	3(3 0 0)
	3. Earthquake Design Concepts	PC	3(3 0 0)
	4. Earthquake Dynamics Laboratory	PE	2(0 0 4)
	5. Program Elective	PE	3(3 0 0)
	6. Program/Open Elective (*)	PE/OE	3(3 0 0)
	Total Semester Credits		18
Semester 2			
	1. Earthquake Analysis of Structures	PC	3(3 0 0)
	2. Earthquake Resistant Design of Masonry Structures	PC	3(3 0 0)
	3. Finite Element Methods	PC	3(3 0 0)
	4. Program Elective	PE	3(3 0 0)
	5. Program Elective	PE	3(3 0 0)
	6. Program /Open Elective (*)	PE/OE	3(3 0 0)
	Total Semester Credits		18
	Total course Credits (I & II Semester)		**36**
***Maximum one Open Elective is allowed in both the semester put together.**			
Semester 3			
	Research Project		4(0 0 16)
	Dissertation & Thesis		8(0 0 16)
	Total Third Semester Credits		12
Semester 4			
	Dissertation/Thesis		12(0 0 24)
	Total Fourth Semester Credits		12
	Total Credits (III & IV Semester)		24
	Total Program Credits (all four semester)		**60**

List of PhD Courses (Mandatory)

S. No.	Degree	Department	Course Code(Old)	Title of Course	Elective Type	Course Type (T/P/S/D)	Credit	L	T	P	Course Code(New)
1	PhD	MECHANICAL ENGINEERING	MET901	Research Methodology		THEORY	2	2	0	0	21MET901
2	PhD	MECHANICAL ENGINEERING	MET902	Design of Experiments and optimization		THEORY	2	2	0	0	21MET902
3	PhD	MANAGEMENT STUDIES	BMT903	Survey Research Methods		THEORY	2	2	0	0	21BMT901
4	PhD	HUMANITIES & SOCIAL SCIENCES	HST904	Research Design: Inquiry and Discovery		THEORY	2	2	0	0	21HST901
5	PhD	COMPUTER SCIENCE & ENGINEERING	CST905	Research Methodology - II		THEORY	2	2	0	0	21CST901

12.8(i)

HUMANITIES & SOCIAL SCIENCES

Sno	Sem	Course Code	Title of Course	Elective Type	Credit	L	T	P
1		21HST801	BUILDING LANGUAGE SKILLS	PE	3	3	0	0
2		21HST802	CRITICAL THINKING AND WRITING	PE	3	3	0	0
3		21HST803	DYNAMICS OF COMMUNICATION	PE	3	3	0	0
4		21HST804	FOUNDATIONS OF RESEARCH AND ACADEMIC WRITING	PE	3	3	0	0
5		21HST805	GENDER AND SOCIETY	PE	3	3	0	0
6		21HST806	GOVERNANCE AND REFORM IN INDIA	PE	3	3	0	0
7		21HST807	HISTORY OF DRAMA AND DRAMATIC THEORY	PE	3	3	0	0
8		21HST808	INDIAN CONSTITUTION, DEMOCRACY AND WORLD AFFAIRS	PE	3	3	0	0
9		21HST809	INTERNATIONAL ECONOMICS	PE	3	3	0	0
10		21HST810	INTRODUCTION TO COMMUNITY BASED PARTICIPATORY RESEARCH	PE	3	3	0	0
11		21HST811	INTRODUCTION TO ECONOMETRICS	PE	3	3	0	0
12		21HST812	LITERARY THEORY AND CRITICISM	PE	3	3	0	0
13		21HST813	SOCIAL SCIENCES IN INDIA	PE	3	3	0	0
14		21HST814	TECHNICAL WRITING AND PRESENTATION SKILLS	PE	3	3	0	0

Annexure -J

दैनन्दिनी संख्या MNIT DIARY

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

पृष्ठ संख्या Page No.

पंजिका संख्या / FILE NO. F.4/S-III-1/21-22 Acad OS.

कार्यालय टिप्पणी

Note Sheet

Academic Section

Subject :- Minutes of 33rd SUGB Meeting held on July 20,2021 at 04:00 PM.

33rd meeting of SUGB was held on July,20 2021 at 04:00 PM in Old Senate Hall Ground Floor, Prabha Bhawan, MNIT Jaipur.

The minutes were circulated amongst the members and the comments received were incorporated in the minutes.

The minutes of 33rd SUGB meeting are put up for kind approval.

(Anil Swarnkar)
Convener, SUGB

Chairman, SUGB

Chairman, Senate

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

MINUTES OF THE 33rd MEETING OF THE SUGB HELD ON July 20, 2021

The 33rd Meeting of SUGB was held on July 20, 2021 at 4:00 PM in the Old Senate Hall, Prabha Bhawan.

The meeting was attended by the following members:

S.No.	Name	Department
1.	Prof. Ravindra Nagar	Chairman, SUGB
2.	Prof. Rakesh Jain	Chairman, SPGB
3.	Prof. Urmila Brighu	Dean, Academics
4.	Prof. Kanupriya Sachdev	Associate Dean (PG)
5.	Dr. Anil Swarnkar	Associate Dean (UG)
6.	Dr. Rajeev Dohare	Department of Chemical Engineering
7.	Dr. Ramesh Babu Batula	Department of Computer Science & Engineering
8.	Dr. Reeta Singh	Department of Management Studies
9.	Dr. Pooja Nigam	Department of Architecture and Planning
10.	Dr. Amartya Chowdhary	Centre for Energy & Environment
11.	Dr. Sumit Kumar Sonkar	Department of Chemistry
12.	Dr. Vibhuti Singh Shekhawat	Department of Humanities and Social Science
13.	Dr. G. D. Agarwal	Department of Mechanical Engineering & Ex-Chairman SUGB
14.	Dr. Vatsala Mathur	Department of Mathematics
15.	Dr. C. Periasamy	Department of Electronics & Communication Engineering
16.	Dr. Ajaya Kumar Pradhan	Department of Metallurgical and Materials Engineering
17.	Dr. Sumit Khandelwal	Department of Civil Engineering
18.	Dr. Nisha Verma	Material Research Centre
19.	Dr. Kavita Lalwani	Department of Physics
20.	Dr. Kusum Verma	Department of Electrical Engineering
21.	Dr Nidhi Sharma	Humanities and Social Sciences (Special Invitee)
22.	Dr. Sushant Upadhyaya	Department of Chemical Engineering (Special Invitee)
23.	Dr. Ram Dayal	Time Table Coordinator (Special Invitee)

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Following members couldn't attend the meeting:

S.No.	Name	Department
1.	Dr. Naveen Choudhary	Professor and Head, CSE, CTAE Udaipur (TEQIP Nominee)
2.	Dr. Nivedita Kaul	Nominee, Chairperson Senate

The following agenda items were discussed and the recommendations are as follows:

Item No. 33-1.0	**To confirm the minutes of the 32nd meeting of the SUGB held on January,29th 2021.** The 32nd SUGB meeting was held on January, 29th, 2021. The drafts minutes of the meeting were circulated to all the SUGB members and comments received were incorporated. Thereafter, the minutes were approved by the Chairman Senate. The SUGB confirmed the minutes of 32nd meeting of SUGB.
Item No33-2.0	Items for Consideration.
Item No. 33-2.1	To consider the list of the students (2021 passed out) eligible for award of degree in UG programmes in the forthcoming 15th Convocation. The list placed at **Annexure-A** The SUGB recommended the list to be placed before the Senate for approval to award the degree to the students.
Item No. 33-2.2	To consider the names of the students (2021 passed out) for award of Gold Medals in the respective UG programmes in the forthcoming 15th Convocation. The list placed at **Annexure-B** The SUGB recommended the list to be placed before the Senate for approval for award of Gold Medals to the students.
Item No. 33-2.3	**To consider the proposal received from DUGC, Department of Mechanical Engineering to introduce new elective courses** i. Machine Learning (MET-477) – Adv. Program Elective. ii. Reliability and Maintainability Engineering (MET-478) - Adv. Program Elective. iii. Strategic Product Development (MET- 495) - Open elective course. iv. Introduction to Sports Engineering (MET- xxx) - Open elective course. v. Welding Engineering and Technology (MET- xxx) - Program elective course. The SUGB deliberated upon the issue and recommended the proposal submitted by the Department of Mechanical Engineering to be placed before the Senate for approval.

Item No. 33-2.4	**To consider the matter regarding semester long internship to Mr. Shivam Kumar (ID 2018UME 1611) received from DUGC, Department of Mechanical Engineering Department.** The SUGB noted the matter and decided that these types of cases may be dealt at the department level as per the UG institute internship policy, and only exceptional cases should be sent as the agenda of the SUGB meeting.
Item No. 33-2.5	**To consider the proposal received from the DUGC, Department of Humanities & Social Sciences for revision in following courses.** i. HST 102: Basic Economics [CORE] (revision in content) ii. HST 406: Indian Economic Problems &Policies [Open Elective] (revision in content and nomenclature) The SUGB deliberated upon the issue and approved the proposal.
Item No. 33-2.6	**To consider the proposal received from the DUGC, Department of Civil Engineering regarding sharing of course load of "CET101: Computer Aided Engineering Drawing (CAED)" equally between Mechanical and Civil Engineering Departments.** The SUGB decided to maintain the status quo, i.e., the course "CET101: Computer Aided Engineering Drawing (CAED)" will be taught by the Department of Civil Engineering as earlier.
Item No. 33-2.7	**To consider the proposal received from the DUGC, Department of Civil Engineering regarding sharing of course load of "CET102: Environmental Science (ES)" equally between Chemical and Civil Engineering Departments.** The SUGB decided to maintain the status quo, i.e., the course "CET102: Environmental Science (ES)" will be taught by the Department of Civil Engineering as earlier.
Item No. 33-2.8	**To consider the proposal received from the DUGC, Department of Civil Engineering regarding uniformity in policy for conduct of re-exam for MTE and ETE for students who miss their exam for genuine reasons.** The SUGB deliberated upon the issue and it was decided to keep the number of days to re-appear for the exam unchanged. However, for the purpose of interpretation, it is clarified that 'within 2 weeks of the exam' may be considered as 'within 2 weeks after the last exam' for the Mid Term examination and 'within 10 days after the last exam' for the End Term examination.

Item No. 33-2.9	**To consider the proposal received from the DUGC, Department of Civil Engineering regarding uniformity in application of penalty of re-exam of MTE and ETE for students who miss their exam for genuine reasons.** The SUGB discussed the issue in detail and the agenda item is not approved.
Item No33-3.0	Reporting Items
Item No33-4.0	*Any other item with permission of chair.*
Item No33-4.1	**To consider the proposal of Department of Physics regarding minor changes in UG Courses of B.Tech.** The SUGB approved the minor revision of existing UG Course as proposed by the Department of Physics. In addition, one new open elective course' Organic Electronic Material and Devices (PHT 422)' was also proposed. The SUGB recommended the new elective course proposed by the Department of Physics to be placed before the Senate for approval.
Item No33-4.2	**To consider the list of UG students who have reached their maximum limit of duration for completing the B. Tech. degree at MNIT Jaipur.** The SUGB deliberated upon the issue and decided that the Concerned Department's and Academic Section will try to contact such students and based on the responses of the students the matter may be discussed in the next senate meeting.

Annexure -K

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

Minutes of 20th Academic Affairs Committee

The 20th meeting of Academic Affairs Committee was held on July 26, 2021 at 10.15 AM in the Committee Room near the Office of Dean Academic for discussing the issues related to Ph.D entrance Examination

1. Prof. Rakesh Jain (Chairman SPGB)
2. Prof. Urmila Brighu (Dean Academic)
3. Prof. Kanupriya Sachdeva (Associate Dean PG).
4. Prof. Vijay Laxmi (Associate Dean, Academic)

Items No.	Particular
20-1-0	**To consider the issue regarding qualifying marks in Ph.D. entrance exam.** As per the Guidelines for Ph.D. entrance exam, the written exam for Ph.D. comprised of two sections, Section A meant to test the research aptitude and Section B to test the subject knowledge of the student. Both the tests were of a qualifying nature and 50% and 40% were decided as qualifying marks for these tests respectively. The members of the Committee deliberated on the issue of qualifying marks for various categories of students in this exam and decided that a relaxation of 5% be made in the qualifying percentage for students of SC/ST category and their qualifying percentage would respectively be 45% for Section A and 35% for Section B. The qualifying percentage for students of the general category would remain the same as decided in the guidelines.
20-2-0	**To consider the nomination of one women and one SC/ST member in the Departmental Selection Committee.** It has been observed that many a times there is no representation of women or SC/STs in Departmental Selection Committees. The Committee recommends that Departmental Selection Committees be advised to include representatives of women and SC/ST community as invited members in the DSC under intimation to Dean, Academics, if their representation is not there already.
20-3-0	**To formulate the criteria for consideration of the subject merit in deciding the final merit in Ph.D. admission** As per the guidelines for Ph.D. exam, the admission process comprises of the written exam and the interview. The written exam has two sections, research aptitude and subject knowledge of the candidate. The qualifying marks for both these exams were decided in the guidelines.

Urmila Laxmi

	The Committee recommends that marks of the subject test should be taken into consideration while deciding the overall merit of the candidate after interview. The Departmental Selection Committee should formulate the mechanism to include the subject test while preparing final merit with intimation to the Office of Dean Academic.

The committee recommended that the aforesaid revision may be applicable from PhD entrance examination from Even Semester 2021-22 and onwards.

(Urmila Brighu)	(Kanupriya Sachdev)	(Rakesh Jain)	(Vijay Laxmi)
Dean Academic	ADPG	Chairman SPGB	Associate Dean

Submitted for approval please.

Urmila

- Chairman, Senate.

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

Minutes of 21st Academic Affairs Committee

The 21st meeting of Academic Affairs Committee was held on July 30, 2021 at 04.00 PM in the Committee Room, Prabha Bhawan. The following members attended the meeting:

1. Prof. Rakesh Jain (Chairman, SPGB)
2. Prof. Ravindra Nagar (Chairman, SUGB)
3. Prof. Urmila Brighu (Dean, Academics)
4. Prof. Kanupriya Sachdeva (Associate Dean PG& PH.D.),
5. Prof. Vijay Laxmi (Associate Dean, Academics)
6. Dr. Anil Swarnkar (Associate Dean UG),
7. Dr. Reetu Singh (Deputy Registrar, Academics)

Items No.	Particular
21-1-0	To consider the issue regarding request for re-admission of M.Tech student of Thermal Engineering, Mr. Lakhinana Tharaka Rathna(2020PTE5343) Various requests via e-mail have been received from, Mr. Lakhinana Tharaka Rathna, a student of M.Tech in Thermal Engineering (second semester) regarding re-admission in the Institute. Mr. Rathna has taken withdrawal from the institute in April, 2021 , at a time when the institute opened for off- line classes. In his plea for re-admission he has admitted that it was a mistake on his part that he applied for institute withdrawal. The reason cited him for this withdrawal was the extreme mental pressure and his disturbed mental health which occurred due to COVID pandemic and the poor financial conditions of his family which worsened due to the pandemic. Mr. Rathna is a bright student whose CGPA was 8.20 in the first semester and has submitted fees of both semesters and has not received any financial assistantship. No rule is mentioned in the PG Regulation for such type of matters of re-admission after institute withdrawal. **The Committee members deliberated on the matter and decided that the request of the student be considered for re-admission and case be made and sent to Senate Chairman for his approval. Once re-admitted, the student may be asked to take semester withdrawal for the second semester.**

(Rakesh Jain)
Chairman SPGB

(Ravindra Nagar)
Chairman SUGB

(Urmila Brighu)
Dean Academic

(Kanupriya Sachdev)
ADPG& Ph.D.

(Anil Swarnkar)
ADUG

(Vijay Laxmi)
Associate Dean, Academic

(Reetu Singh)
Deputy Registrar, Academic

Annexure -L

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर

MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

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नान्दनी संख्या MNIT DIARY NO.

Note Sheet

ACADEMIC SECTION

Dated 15-06-2021

Sub: Additional qualification for admission to M. Tech. Environmental programme.

With reference to email received from the Coordinator CCMT-2021 to allow addition of any missing qualifying degree and/or GATE/JAM exam paper mapping and addition deletion of any existing mapping and addition of any new qualifying degree or new special eligibility condition in the master data.

In response to the above, following recommendations have been received from the DPGC of the Civil Engineering Department:

(1) Students of B. Tech. (Environmental Engineering) shall be allowed for admission to our M.Tech. (Env.) program. with GATE Paper in Environmental Science and Engineering. Umrik 15/6/21

(2) Also students who qualified GATE with Environmental Science and Engineering (E.S.) paper and B.E. / B.Tech. (Civil) should also be considered for the admission to our M.Tech. (Env.) program.

If approved, the same would be forwarded to Coordinator CCMT for inclusion as new qualifying degree in the master data.

Umrik

– Chairman, Senate.

Approved. 16/6/21.

fna please.

Umrik

– Prof R.K. Vyas.

Annexure -M

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

Office of Dean, Academic

Date- 26/7/21

NOTESHEET

It is submitted that the CCMT is allowing before Special Round 1 any additions in the list of qualifying degrees, mapping of qualifying degrees and GATE/JAM papers, new programs etc.

The DFB of Department of Metallurgical And Materials Engineering has recommended addition of 4 additional disciplines for the M.Tech. (Metallurgical and Materials Engineering) program to get good registration in the program, as mentioned below (Minutes of Meeting attached).

Name of the Programme	Degree Eligibility	Degree Code	GATE Code
M. Tech. (Metallurgical And Materials Engineering)	M.Sc. in Materials Science	S518	MT, XE, PH, CY
	M.Sc. in Materials Science Solid State Physics	S558	MT, XE, PH
	The Institution of Engineers (India) (IE)	R101	MT, XE, ME
	M.Sc. in Applied Science	S504	MT, ME, XE, CY

It is requested to kindly accord necessary approval for the same.

Sachdev 26/7/21
(K.Sachdev)

ADPG

684 28/7

Dean 26/7/21.

396 29-7-21

Director CCMT

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MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

Minutes of the meeting of Departmental Faculty Board (DFB)
(DFB-10/2021-2022)

July 22, 2021

The 10th meeting of the Departmental Faculty Board (DFB) for the academic session 2020-2021 was held on Thursday, July 22, 2021 at 4.00 PM in online mode

Attendees:

1. Prof. Rajendra Kumar Goyal (Chairman)
2. Prof. Upendra Pandel,
3. Dr. Vijay Navaratna N.
4. Dr. Ajaya Kumar Pradhan
5. Dr. Krishna Kumar
6. Dr. Swati Sharma (Secretary-DFB)
7. Dr. Jyotirmaya Kar
8. Dr. Manjesh Mishra
9. Dr. Kunal Borse
10. Dr. Brij Mohan
11. Dr. Rajesh Kumar Rai
12. Dr. Abhishek Tripathi

At the onset, the chairman welcomed the members to the DFB and placed the agenda circulated on 22.07.2021 for the deliberation of the members.

After a detailed discussion it was unanimously decided by the DFB members to add the following disciplines under eligibility criteria for admission in M.Tech. (Metallurgical and Materials Engineering).

Name of the Programme	Degree Eligibility	Degree Code	GATE Code
M. Tech. (Metallurgical And Materials Engineering)	M.Sc. in Materials Science	S518	MT, XE, PH, CY
	M.Sc. in Materials Science Solid State Physics	S558	MT, XE, PH
	The Institution of Engineers (India) (IE)	R101	MT, XE, ME
	M.Sc. in Applied Science	S504	MT, ME, XE, CY

Item No. 2: Any other points

No other item was taken for deliberation.

The meeting ended with a vote of thanks to the chair.

23/07/21

23/07/21

23.07.2021

23/07/2021

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दैनन्दिनी संख्या MNIT DIARY NO.

Annexure -N

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान

MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

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Note Sheet

ACADEMIC SECTION

Dated: 23/6/2021

Sub: Addition of qualifying degree for admission in M.Sc. programme.

CCMN candidates in applying to M.Sc. Mathematics & M.Sc. Chemistry at MNIT Jaipur, the two departments have requested to add the following as qualifying degrees for admission:

1. Department of Mathematics
   (i) S101 B.Sc.
   (ii) S113 B.Sc. Physical Sciences with the same special eligibility conditions.

2. Department of Chemistry
   (i) B.Sc. Physical Science with a special eligibility condition that the candidate should have studied Chemistry in at least 4 semesters in the UG level.

It is requested to kindly accord approval for the above.

Dean, Academic

– Chairman, Senate.

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

ACADEMIC SECTION

Annexure-01

List of UG students to be considered for award of degree in 15th Convocation (A.Y. 2020-21)

Architecture & Planning

S No.	Student Id	Student Name	Total Registered Credits	Total Earned Credits	CGPA
1	2015UAR1180	LALNUNMAWIA	229	229	6.29
2	2015UAR1181	SALMAN HAIDER	229	229	5.67
3	2015UAR1270	RASHMI SINGH	229	229	6.59
4	2015UAR1697	CHHOWALA NAMIT NAVINCHANDRA	229	229	5.84
5	2016UAR1058	RITAMBRA SINGH	229	229	7.45
6	2016UAR1062	GAURI SHARMA	229	229	8.38
7	2016UAR1063	HIMANI PATEL	229	229	6.63
8	2016UAR1075	MEENAL KANWAR CHUNDAWAT	229	229	8.25
9	2016UAR1084	SAUMYA JAIN	229	229	7.62
10	2016UAR1097	VAIBHAV SAINI	229	229	7.12
11	2016UAR1108	BHAVIN	229	229	7.85
12	2016UAR1109	SPRIHA SINGH	229	229	7.48
13	2016UAR1112	MONIKA	229	229	8.44
14	2016UAR1113	ANURAG AMAN	229	229	5.41
15	2016UAR1115	VAIBHAV KUSHWAHA	229	229	8.45
16	2016UAR1122	DIKSHANT SHARMA	229	229	6.43
17	2016UAR1131	ARUSHI SHARMA	229	229	9.00
18	2016UAR1133	SHREYANCY GOYAL	229	229	7.19
19	2016UAR1134	SHRASTHI GUPTA	229	229	8.36
20	2016UAR1137	SHREYANSHA GUHA ROY	229	229	9.12
21	2016UAR1139	ANUPAMA	229	229	8.25
22	2016UAR1143	KRATIKA VASDANI	229	229	8.31
23	2016UAR1144	SATYAM KUMAWAT	229	229	8.00
24	2016UAR1147	SHIKHAR CHATURVEDI	229	229	5.13
25	2016UAR1152	PALLAV KUMAR	229	229	7.32
26	2016UAR1153	KHUSHHAL SINGH YADAV	229	229	9.29
27	2016UAR1158	MANISHA DAMACHYA	229	229	6.09
28	2016UAR1173	TANMAY AGARWAL	229	229	7.98
29	2016UAR1175	AMULYA GUPTA	229	229	9.26
30	2016UAR1187	VIDHI GOYAL	229	229	6.98
31	2016UAR1246	AKSHAY VISHWANATH BHALERAO	229	229	7.16
32	2016UAR1300	SUKRITI ARYA	229	229	6.82
33	2016UAR1315	BHARTI SINGH	229	229	6.11
34	2016UAR1402	P KISHORE KUMAR	229	229	7.72
35	2016UAR1429	SAMBHAV JAIN	229	229	7.48
36	2016UAR1431	ABHISHEK KUMAR	229	229	6.12
37	2016UAR1475	KAPIL KUMAR MUNDOTIYA	229	229	5.17

38	2016UAR1477	VARTIKA SOOD	229	229	8.52
39	2016UAR1485	YUKTA PATIDAR	229	229	7.92
40	2016UAR1506	AQIF HUSSAIN	229	229	5.51
41	2016UAR1530	RASHI SINGH	229	229	8.35
42	2016UAR1552	MOHIT KUMAR	229	229	6.53
43	2016UAR1587	JAGAD JAY MUKESHBHAI	229	229	8.59
44	2016UAR1607	MAHENDRA RAJ BHARTI	229	229	6.04
45	2016UAR1611	SHUBHI VAID	229	229	8.83
46	2016UAR1618	ANKIT KUMAR	229	229	8.19
47	2016UAR1629	YASHIKA SHARMA	229	229	8.51
48	2016UAR1652	NITESH KUMAR	229	229	5.33
49	2016UAR1672	MUKESH VERMA	229	229	6.88
50	2016UAR1677	AMEESHA SONI	229	229	8.03
51	2016UAR1693	SHUBHAM GUPTA	229	229	8.61
52	2016UAR1717	SHRUTHI ANDRU	229	229	8.02
53	2016UAR1724	SHIKHA AGRAWAL	229	229	7.07

Chemical Engineering

1	2017UCH1019	ADITYA DEEPAK NAIR	195	195	5.67
2	2017UCH1035	SANKET PANWAR	196	196	7.80
3	2017UCH1052	PRANAY NANNAWARE	196	196	7.38
4	2017UCH1058	CHINMAY GUPTA	196	196	7.69
5	2017UCH1059	HIMANSHU YADAV	196	196	7.90
6	2017UCH1067	PRANSHI MITTAL	197	197	5.94
7	2017UCH1084	TEJPAL CHOUDHARY	196	196	6.81
8	2017UCH1092	AMAN AGARWAL	196	196	6.92
9	2017UCH1095	NIKITA	195	195	6.58
10	2017UCH1099	KUNAL SOLANKI	197	197	5.75
11	2017UCH1104	DIVYA	195	195	6.75
12	2017UCH1106	AKSHITA LODHA	195	195	8.63
13	2017UCH1111	SANJAY SINGH CHOUHAN	197	197	5.24
14	2017UCH1131	ROHITASH KUMAR MEENA	195	195	7.74
15	2017UCH1145	VAIBHAV BAJAJ	195	195	8.67
16	2017UCH1166	AYUSH KUMAR	195	195	7.15
17	2017UCH1196	RISHABH TRIPATHI	196	196	7.66
18	2017UCH1208	RAHUL KUMAR	196	196	6.60
19	2017UCH1223	MANISH YADAV	197	197	8.08
20	2017UCH1232	RISHABH SINGH	196	196	7.44
21	2017UCH1238	MAYANK SHARMA	196	196	7.87
22	2017UCH1240	NISHCHAYA GUPTA	196	196	8.88
23	2017UCH1248	PANKAJ	196	196	6.15
24	2017UCH1253	JONESH JAIN	196	196	6.22
25	2017UCH1257	VIVEK KUMAR SINGH	195	195	7.05
26	2017UCH1265	ARUN CHAUHAN	196	196	6.66
27	2017UCH1275	CHHAVI SHUKLA	196	196	8.99
28	2017UCH1311	MANVI GUPTA	197	197	9.13
29	2017UCH1321	TEJAS GUPTA	195	195	8.73
30	2017UCH1324	DHARMENDRA KUMAR	197	197	7.21
31	2017UCH1342	TARUN KUMAR	196	196	7.20

32	2017UCH1349	DEEPAK SINGH	195	195	5.58
33	2017UCH1351	BRIJESH SETHI	196	196	6.04
34	2017UCH1363	GOPAL KUMAWAT	195	195	7.98
35	2017UCH1367	PRIYA KANODIA	195	195	7.66
36	2017UCH1386	ANUSHKA JAIN	196	196	8.74
37	2017UCH1390	YOGENDRA SINGH	196	196	6.87
38	2017UCH1398	RIA DHAMEJA	196	196	7.92
39	2017UCH1421	PRACHI SHARMA	196	196	8.93
40	2017UCH1435	SHATAKSHA SINGH	196	196	7.21
41	2017UCH1437	SUNIL KUMAR	196	196	6.28
42	2017UCH1440	GAGAN PRATAP	195	195	7.45
43	2017UCH1445	PARAMJEET SINGH WALIA	197	197	8.64
44	2017UCH1453	SHRADDHA MEHTA	197	197	8.22
45	2017UCH1463	PRAKASH CHAND	196	196	6.51
46	2017UCH1466	ANUSHREE AGRAWAL	196	196	8.57
47	2017UCH1476	VAIBHAV JAIN	196	196	9.13
48	2017UCH1489	SIDDHARTH PANDEY	197	197	7.72
49	2017UCH1492	ABHISHEK	196	196	6.24
50	2017UCH1509	HAMENT AGARWALLA	195	195	7.15
51	2017UCH1511	SNIGDHA PRASAD	196	196	6.89
52	2017UCH1520	MANISH CHAUDHARY	196	196	8.24
53	2017UCH1521	PUSHPENDRA KUMAR	195	195	7.61
54	2017UCH1523	PRIYANKA RANI CHAUHAN	197	197	8.87
55	2017UCH1526	EKANSH CHOUDHARY	197	197	8.24
56	2017UCH1532	MANISH MEENA	197	197	6.33
57	2017UCH1549	MOHIT KUMAR	197	197	8.45
58	2017UCH1552	NIKSHA LAMBA	197	197	8.07
59	2017UCH1564	ABHISHEK KUMAWAT	196	196	6.12
60	2017UCH1572	HARSHITA JANGID	195	195	7.80
61	2017UCH1576	AMISHA SINGH	196	196	8.20
62	2017UCH1585	NANDINI AGGARWAL	197	197	8.34
63	2017UCH1591	SUMIT KUMAR YADAV	195	195	7.24
64	2017UCH1592	SWAPNIL RAMNARAYANJI DHOOT	196	196	7.75
65	2017UCH1596	SUNNY NILESH AGRAWAL	196	196	7.23
66	2017UCH1639	SRAJAN CHATURVEDI	196	196	9.30
67	2017UCH1643	RIYA S NATH	196	196	8.54
68	2017UCH1648	MANI SAXENA	197	197	8.03
69	2017UCH1654	MANVENDRA SINGH RATHORE	195	195	7.11
70	2017UCH1664	ISHIT AGARWAL	196	196	7.02
71	2017UCH1668	ANKIT OJHA	197	197	8.89
72	2017UCH1675	RADHESHYAM CHOUDHARY	195	195	5.52
73	2017UCH1687	ARUNANSHU DEEP BARNWAL	199	199	5.80
74	2017UCH1695	VIKKY DEVANDA	197	197	6.26
75	2017UCH1698	VALIUDDIN QURESHI	195	195	7.25
76	2017UCH1708	HIMANSHU YADAV	197	197	8.15
77	2017UCH1710	SUSHANT GIRI	195	195	6.86
78	2017UCH1711	KARMESH GUPTA	197	197	9.22
79	2017UCH1725	MAYANK AGRAWAL	197	197	8.53

80	2017UCH1728	ANJALI JAIN	195	195	7.70
81	2017UCH1736	TARANG NIGAM	197	197	8.56
82	2017UCH1740	SIDDHARTH SINGH	196	196	7.84
83	2017UCH1743	ANUJ SRIVASTAVA	197	197	8.10
84	2017UCH1750	ABHIGYAN BISWAS	196	196	7.83
85	2017UCH1753	KANISHKA GUPTA	195	195	8.46
86	2017UCH1770	ANSH KHANDELWAL	195	195	7.95
87	2017UCH1781	JIGARKUMAR DAMOR	196	196	6.93

Civil Engineering

1	2016UCE1163	SANJAY KUMAWAT	192	192	5.63
2	2016UCE1678	ASHUTOSH PANDEY	191	191	7.54
3	2016UCE1707	NARENDRA KUMAR SWAMI	192	192	5.90
4	2017UCE1018	NADIM SAJID SARPANCH	191	191	5.68
5	2017UCE1044	MONIKA KUMAWAT	191	191	7.57
6	2017UCE1045	TUSHIT KUMAR SINGH	193	193	7.29
7	2017UCE1047	NAMIT AGRAWAL	191	191	8.72
8	2017UCE1065	SMIT NATAVARPURI GOSWAMI	191	191	5.71
9	2017UCE1066	MANJEET	193	193	6.32
10	2017UCE1071	AVNISH GOYAL	192	192	8.03
11	2017UCE1080	ABHISHEK KASHYAP	191	191	7.34
12	2017UCE1097	BHUVNESH JINDAL	193	193	7.22
13	2017UCE1098	PREM SEWARIYA	191	191	7.16
14	2017UCE1124	NIKITA AGRAWAL	191	191	9.49
15	2017UCE1129	PRINCE KUMAR SINGHAL	193	193	7.73
16	2017UCE1142	AYUSHI GOYAL	191	191	7.64
17	2017UCE1147	RISHABH KUMAR MEENA	191	191	5.84
18	2017UCE1149	SUBHASH DADARWAL	192	192	7.79
19	2017UCE1158	KARAN NAWARIYA	193	193	7.67
20	2017UCE1171	AYUSH SINGH	192	192	7.24
21	2017UCE1172	LAKHAN BHUIYAN	195	195	7.66
22	2017UCE1181	VIJAY DUDHWAL	193	193	6.22
23	2017UCE1182	VISHAL KUMAR	194	194	6.75
24	2017UCE1184	VAIBHAV SINGH	192	192	9.17
25	2017UCE1186	RAHUL MEENA	191	191	6.60
26	2017UCE1190	DEEPANK KUMAR SINGH	193	193	8.43
27	2017UCE1201	ABHIJEET YADAV	193	193	8.03
28	2017UCE1211	DIVYAMAN	193	193	8.11
29	2017UCE1244	SURAJ PRAKASH	192	192	6.37
30	2017UCE1255	ARNAV SHARMA	191	191	8.28
31	2017UCE1267	DHARMENDRA GUJAR	191	191	7.27
32	2017UCE1274	SHEHBAJ SINGH BATTH	193	193	7.25
33	2017UCE1280	SANJAY KUMAR	192	192	7.44
34	2017UCE1283	SANKEERTH DHARMAPURI	192	192	7.85
35	2017UCE1290	SHUBHAM KUMAR GOYAL	192	192	7.42
36	2017UCE1297	GAURAV KUMAR	191	191	7.42
37	2017UCE1314	NITIN KUMAR SINGH	191	191	6.99
38	2017UCE1317	AMIT KUMAR MAURYA	193	193	6.10
39	2017UCE1333	TEJPRATAP YADAV	192	192	6.98

40	2017UCE1334	ARJUN GUPTA	192	192	7.98
41	2017UCE1339	UDBHAV TRIPATHI	194	194	6.69
42	2017UCE1370	SAVITA BAIS	191	191	8.64
43	2017UCE1371	PRAFULL PRIYA ARYA	192	192	7.00
44	2017UCE1373	AMIT KUMAR JAT	192	192	7.72
45	2017UCE1376	MANNAT PADHA	191	191	8.01
46	2017UCE1380	ATUL KUMAR MEENA	192	192	7.93
47	2017UCE1382	SWAPNIL SINGARIYA	192	192	6.79
48	2017UCE1394	BHOOPENDRA SINGH	193	193	5.88
49	2017UCE1395	PRADEEP HARWANI	194	194	6.90
50	2017UCE1403	DEEPAK	192	192	8.03
51	2017UCE1404	AMAN CHOUDHARY	192	192	7.36
52	2017UCE1409	SAMARTHYA TOMAR	192	192	8.29
53	2017UCE1417	ANOOP SINGH YADAV	193	193	6.74
54	2017UCE1443	TANUJ KUMAR	192	192	5.21
55	2017UCE1447	NAYAN JAIN	191	191	7.47
56	2017UCE1468	ANJALI ANAND	192	192	8.26
57	2017UCE1473	PUNURU SIVA KRISHNA REDDY	193	193	6.29
58	2017UCE1484	HEMENDRA RATHORE	191	191	6.40
59	2017UCE1487	SRISTI GANGWAR	192	192	9.29
60	2017UCE1491	SHUBHAM CHAUDHARY	192	192	6.17
61	2017UCE1494	MANU TRIVEDI	191	191	7.34
62	2017UCE1535	HARI RAM	192	192	8.30
63	2017UCE1551	ROHIT KUMAR	192	192	6.45
64	2017UCE1563	ANAND SHARMA	192	192	8.56
65	2017UCE1594	SAGAR BARONIA	192	192	7.18
66	2017UCE1598	SACHIN KUMAR SHARMA	193	193	7.02
67	2017UCE1612	ASHWINI SEN GUPTA	191	191	7.73
68	2017UCE1614	PRADEEP SUMAN	191	191	7.52
69	2017UCE1622	AAYUSH GUPTA	193	193	7.08
70	2017UCE1630	AKSHAY KUMAWAT	194	194	8.50
71	2017UCE1634	RAHUL SINGH	191	191	7.77
72	2017UCE1653	SAMYAK SETHI	192	192	6.26
73	2017UCE1656	MUDIT PODDAR	192	192	7.48
74	2017UCE1667	HIMANSHU GUPTA	191	191	8.28
75	2017UCE1681	PRADEEP KUMAR	192	192	7.84
76	2017UCE1693	RISHABH AGARWAL	192	192	6.95
77	2017UCE1696	NATWAR MISHRA	192	192	8.18
78	2017UCE1707	SHREYA TRIPATHI	192	192	8.44
79	2017UCE1722	VAGISH NANDAL	192	192	6.94
80	2017UCE1738	SHIVAM KUMAR	191	191	7.95
81	2017UCE1745	VIKAS KUMAR	192	192	7.77
82	2017UCE1763	YASH AGARWAL	191	191	7.77
83	2017UCE1780	AARUSHI MAURYA	191	191	8.23
84	2017UCE1784	YOGESH PEHALWANI	191	191	7.65
85	2015UCE1196	CHAVAN PRUTHVI RAJ	191	191	4.80
86	2017UCE1325	PRANAV PRABHAKAR	192	192	5.74
87	2017UCE1344	SHUBHAM RANA	193	193	6.52

Computer Science & Engineering

1	2016UCP1155	SANJAY KUMAR PAL	201	201	6.21
2	2016UCP1294	UTKARSH VISHEN	201	201	5.10
3	2017UCP1001	AAKASH GOPAL VACHHANI	201	201	7.70
4	2017UCP1002	YAMINI KALYANI EDIGA	202	202	6.49
5	2017UCP1003	AKASH SRIVASTAV	201	201	7.68
6	2017UCP1005	JISHNU MISHRA	202	202	6.36
7	2017UCP1007	SAMIR AMITKUMAR GUPTA	201	201	7.33
8	2017UCP1009	AMISH RAJ	201	201	7.26
9	2017UCP1011	BHUVANAGIRI VENKATA SRIVIDYA	201	201	8.83
10	2017UCP1015	AADITYA MURARKA	201	201	7.18
11	2017UCP1027	NIKHIL SHARMA	201	201	7.20
12	2017UCP1028	SHREYA MODI	201	201	9.33
13	2017UCP1029	HARSHIT SONI	202	202	8.86
14	2017UCP1032	PURVANSH GOURH	202	202	9.03
15	2017UCP1036	ABHINAV BANSAL	202	202	8.56
16	2017UCP1040	RISHAV KUMAR	201	201	7.44
17	2017UCP1041	SUNIL DHAYAL	201	201	7.41
18	2017UCP1061	SALONI GOYAL	201	201	8.53
19	2017UCP1063	ABHISHEK GUPTA	202	202	7.17
20	2017UCP1077	AMAN DUTTA	201	201	7.02
21	2017UCP1082	RAVI NAPIT	201	201	7.39
22	2017UCP1101	AMIT AGARWAL	201	201	8.05
23	2017UCP1103	PRIYANSHI AJMERA	201	201	8.60
24	2017UCP1114	ANAND SONI	201	201	7.55
25	2017UCP1117	YASHVENDAR	202	202	6.53
26	2017UCP1119	DEEPAK JAKHU	201	201	6.57
27	2017UCP1132	SAURAV KUMAR MEENA	201	201	7.11
28	2017UCP1141	NAYAN MITTAL	201	201	7.11
29	2017UCP1153	AASHISH VERMA	201	201	6.87
30	2017UCP1160	ARNAV VERMA	202	202	6.20
31	2017UCP1163	MOHIT ARORA	201	201	7.43
32	2017UCP1168	AYUSH JAIN	201	201	8.86
33	2017UCP1188	DIVYA SODANI	201	201	8.85
34	2017UCP1192	AMAN BANSIWAL	201	201	6.12
35	2017UCP1198	ANUBHAV NEMA	201	201	7.44
36	2017UCP1200	PRANSHU KHANDELWAL	201	201	9.28
37	2017UCP1202	MOHAMMAD FAIZAN	202	202	8.35
38	2017UCP1204	ADITYA KUMAR	201	201	7.56
39	2017UCP1209	RAHUL GOSWAMI	202	202	7.54
40	2017UCP1216	VISHAL CHOUDHARY	201	201	5.50
41	2017UCP1230	HIMANSHU RAWAT	201	201	7.16
42	2017UCP1233	ABHISHEK CHATURVEDI	201	201	5.86
43	2017UCP1234	YUKTI KHURANA	201	201	9.31
44	2017UCP1245	ASHISH PRASAD SURENDRA	202	202	6.47
45	2017UCP1251	RINKESH SAINI	202	202	6.85
46	2017UCP1254	RAJAT RATANLAL GEDAM	201	201	6.85
47	2017UCP1268	RAHUL YADAV	201	201	6.65

48	2017UCP1269	VIPUL CHAUHAN	201	201	7.44
49	2017UCP1273	SIKANDER KUMAR	201	201	7.38
50	2017UCP1279	SHIVJEET SHAKYA	201	201	6.47
51	2017UCP1282	DINESH KUMAR MEENA	201	201	5.99
52	2017UCP1296	SUDHIR KUMAR	201	201	6.74
53	2017UCP1306	SAURABH	201	201	8.09
54	2017UCP1309	DEEPAK KUMAR	202	202	7.89
55	2017UCP1313	GAURAB DAHIT	201	201	7.66
56	2017UCP1323	SUMIT	202	202	8.86
57	2017UCP1329	ATULYA RAJ	202	202	7.07
58	2017UCP1331	RAHUL JAIN	202	202	7.60
59	2017UCP1356	HIMANSHU GWALANI	201	201	9.44
60	2017UCP1362	PRAMOD KUMAR VERMA	202	202	6.89
61	2017UCP1383	JYOTI KUMARI	201	201	6.07
62	2017UCP1384	VIRENDRA KUMAR SAINI	202	202	6.08
63	2017UCP1389	SIDDHARTH JAIN	201	201	5.68
64	2017UCP1401	DIXIT KUMAR JAIN	202	202	8.51
65	2017UCP1412	DIPESH GARG	201	201	8.05
66	2017UCP1432	AKSHIT MEHTA	202	202	8.61
67	2017UCP1436	AMISHA SINGLA	201	201	9.25
68	2017UCP1438	KAMLESH SUTHAR	202	202	7.32
69	2017UCP1469	ANIKET JAIN	201	201	7.96
70	2017UCP1478	SUMIT KUMAR	202	202	7.16
71	2017UCP1479	RAHUL TUTEJA	202	202	7.26
72	2017UCP1513	SAMIK	201	201	7.93
73	2017UCP1515	SHIVANSH BHARDWAJ	201	201	8.41
74	2017UCP1517	SHUBHAM GUPTA	201	201	7.97
75	2017UCP1530	RAJDEEP SINGH SOLANKI	201	201	8.10
76	2017UCP1531	DEEPAK RAGHUWANSHI	202	202	6.61
77	2017UCP1543	PRAKHAR JAIN	202	202	5.80
78	2017UCP1554	SOURABH YADAV	201	201	7.46
79	2017UCP1555	ADITYA KUMAR	201	201	6.20
80	2017UCP1566	ISHIKA	201	201	8.83
81	2017UCP1570	SUDHANSHU KUMAR SINGH	201	201	7.48
82	2017UCP1577	SUNIL MEENA	201	201	7.50
83	2017UCP1580	MANDEEP SINGH GOYAT	201	201	8.22
84	2017UCP1582	TAPAN GOYAL	201	201	8.42
85	2017UCP1593	SUNIL MEENA	202	202	6.28
86	2017UCP1605	NEERAJ KUMAR	201	201	7.58
87	2017UCP1617	SHIVANSHU GUPTA	201	201	8.14
88	2017UCP1620	HARSH GARG	201	201	8.33
89	2017UCP1637	KANZARIYA VIRAL MAHESHBHAI	201	201	7.87
90	2017UCP1670	RAKESH KUMAR TELI	202	202	7.33
91	2017UCP1689	JITESH MEGHWAL	201	201	7.64
92	2017UCP1697	RAVIKANT TATIWAL	201	201	6.80
93	2017UCP1705	ROHIT RONTE	201	201	6.16
94	2017UCP1706	KHIMRAJ	201	201	7.72
95	2017UCP1720	DIVY BANSAL	201	201	7.78

96	2017UCP1758	NISHANT YADAV	202	202	5.97
97	2017UCP1762	LAVISH NAGAR	201	201	7.80
98	2017UCP1787	SANJANA BATTULA	202	202	6.77

Electrical Engineering

1	2017UEE1017	ANSARI MAAZ AHMAD	201	201	5.49
2	2017UEE1034	SHUBHAM BANGARWA	203	203	7.98
3	2017UEE1037	AKSHIT SHARMA	201	201	8.78
4	2017UEE1038	ANINDYA MISHRA	202	202	8.59
5	2017UEE1043	RAJKUMAR MAWALIYA	202	202	7.94
6	2017UEE1046	ABHISHEK KUMAR SINGH	202	202	6.88
7	2017UEE1050	KSHITIZ KAIN	201	201	5.46
8	2017UEE1076	ABHINAV TAILOR	203	203	8.77
9	2017UEE1078	PRAKASH CHAND MEENA	201	201	6.73
10	2017UEE1085	SHUBHAM KALLA	202	202	7.59
11	2017UEE1087	HARSHIL VERMA	201	201	8.42
12	2017UEE1091	PRANAV KULSHRESTHA	202	202	7.14
13	2017UEE1107	SUMEDH CHAUDHARY	202	202	5.68
14	2017UEE1122	VINAY KUMAR	203	203	9.38
15	2017UEE1123	AAYUSHMAN GARG	201	201	8.01
16	2017UEE1130	MOHD ISLAM	202	202	7.39
17	2017UEE1140	SAMEER SRIVASTAVA	202	202	8.58
18	2017UEE1148	JAYNEESH VYAS	202	202	6.98
19	2017UEE1152	MOHIT BHAWARIYA	201	201	7.22
20	2017UEE1162	RITIK ROSHAN BHAGAT	201	201	7.67
21	2017UEE1165	JATIN	202	202	6.39
22	2017UEE1169	AYUSHI AGARWAL	201	201	8.30
23	2017UEE1175	SAKSHAM GUPTA	201	201	8.11
24	2017UEE1179	ABHAY SHARMA	203	203	7.16
25	2017UEE1183	BHAWANA SOLANKI	201	201	9.34
26	2017UEE1185	SHREYANSH BHARADWAJ	202	202	9.08
27	2017UEE1187	AVINASH KUMAR	201	201	6.08
28	2017UEE1189	MOHIT JARWAL	201	201	6.63
29	2017UEE1191	AKHIL KUMAWAT	202	202	9.05
30	2017UEE1205	SHUBAM SINGH	201	201	5.30
31	2017UEE1212	TANVEER AHMAD	201	201	9.08
32	2017UEE1217	MOHAMED RASHAD NARIKUNNAN	201	201	5.51
33	2017UEE1219	ROHIT VERMA	201	201	6.78
34	2017UEE1227	RAJVEER SAINI	202	202	7.67
35	2017UEE1259	KAPIL BAMIL	202	202	6.43
36	2017UEE1260	MEGHA KHATRI	201	201	8.33
37	2017UEE1261	VISHNU	202	202	7.87
38	2017UEE1263	NITIN MITTAL	203	203	9.31
39	2017UEE1264	RAMAKANT SHUKLA	201	201	7.79
40	2017UEE1278	ASHUTOSH YADAV	201	201	8.32
41	2017UEE1288	AESHNA ANAND	201	201	9.27
42	2017UEE1295	MAYANK KUMAR	202	202	6.14
43	2017UEE1298	RAMVILAS	201	201	7.73
44	2017UEE1299	KRISHANK RATHORE	202	202	8.18

45	2017UEE1302	AJEET SINGH	203	203	7.41
46	2017UEE1318	SHEIKH AAQIB MEHMOOD	201	201	6.44
47	2017UEE1327	VINOD KUMAR YADAV	201	201	6.89
48	2017UEE1336	PRIYA MITTAL	202	202	7.36
49	2017UEE1340	SHRUTI NIKOSE	201	201	8.14
50	2017UEE1348	HARSHIYA MAHESHWARI	202	202	8.21
51	2017UEE1355	MADHAVENDRA SINGH INDA	201	201	7.42
52	2017UEE1361	ABHISHEK KUMAR MEENA	201	201	5.80
53	2017UEE1368	VINAY KUMAR	203	203	5.39
54	2017UEE1372	ASHRAY GUPTA	201	201	8.54
55	2017UEE1375	MOIN ASHRAF SIDDIQUI	201	201	8.74
56	2017UEE1377	GAGANDEEP	201	201	6.11
57	2017UEE1379	SAURABH	202	202	7.22
58	2017UEE1385	UDIT PRATAP SINGH TANWAR	201	201	8.47
59	2017UEE1393	RITIK GARG	201	201	7.78
60	2017UEE1397	RAVEENA MEENA	201	201	6.83
61	2017UEE1399	SHRIKRISHNA SINGH YADAV	202	202	7.49
62	2017UEE1413	SANJAY	201	201	7.75
63	2017UEE1414	BHAGYODAY KUMAR	202	202	6.90
64	2017UEE1415	RITESH SINGH	202	202	7.21
65	2017UEE1416	RAMKISHOR MEENA	202	202	7.57
66	2017UEE1434	AKASH RAJ	202	202	8.59
67	2017UEE1452	LALIT	203	203	8.08
68	2017UEE1474	ARCHIT KUMAR SHARMA	203	203	6.97
69	2017UEE1477	GOURAV KHADRIA	203	203	7.78
70	2017UEE1488	HARSHIT SAHU	203	203	7.10
71	2017UEE1497	AYUSH CHAUHAN	202	202	6.63
72	2017UEE1553	PAURUSH PRATAP SINGH	203	203	6.21
73	2017UEE1560	VISHAL KUMAR SINGH	201	201	8.53
74	2017UEE1562	TUSHAR JAIN	202	202	6.82
75	2017UEE1595	MADHAV KUMAR GUPTA	202	202	7.98
76	2017UEE1625	DHRUV GOEL	201	201	9.65
77	2017UEE1632	MANTHAN SHARMA	201	201	9.37
78	2017UEE1635	NITIKA MAHIYA	201	201	9.37
79	2017UEE1638	RAHUL KUMAR	201	201	7.87
80	2017UEE1640	KRISHAN AGARWAL	202	202	7.34
81	2017UEE1649	PRATIK ROHILA	203	203	7.32
82	2017UEE1663	MOHAMMED ARIF	202	202	7.22
83	2017UEE1669	KAPIL CHOUDHARY	201	201	8.35
84	2017UEE1673	AMIT PAHUJA	203	203	7.49
85	2017UEE1734	RUDRESH SINGH	202	202	6.11
86	2017UEE1742	ADITYA KUMAR LAL	202	202	7.23
87	2017UEE1749	SURYANSH RAJ	202	202	8.96
88	2017UEE1757	VISHVAJEET	201	201	6.82
89	2017UEE1760	NAGESHWAR PRASAD SINGH	202	202	6.78
90	2017UEE1765	RAHUL GOYAL	201	201	6.69

Electronics & Communication Engineering

1	2017UEC1008	MUSKAAN SAMTANI	202	202	8.64

2	2017UEC1010	SANTOSHI MANVITA KARUTURI	202	202	6.20
3	2017UEC1012	ANUDEEP DHOPTEY	202	202	7.14
4	2017UEC1013	DEBANGKUR DAS	202	202	5.61
5	2017UEC1016	UPASANA MISHRA	202	202	7.10
6	2017UEC1020	NIHARIKA	202	202	6.62
7	2017UEC1021	AKHILA ORUGANTI	202	202	6.52
8	2017UEC1022	VEDASHREE UMESH BHIDE	202	202	7.15
9	2017UEC1031	SHANU	203	203	7.73
10	2017UEC1039	NAMAN KUSHWAHA	203	203	7.12
11	2017UEC1048	NIMIT JAIN	203	203	7.59
12	2017UEC1055	KRISHNA AGARWAL	202	202	9.52
13	2017UEC1056	DHRUV SURESH GOLANI	202	202	8.62
14	2017UEC1057	G PREETI	202	202	8.26
15	2017UEC1070	AMIT CHOUDHARY	204	204	7.30
16	2017UEC1083	PRATIBHA YADAV	202	202	7.95
17	2017UEC1089	ARYAN RAI	202	202	5.88
18	2017UEC1090	RAHUL JANGID	202	202	6.29
19	2017UEC1096	PAARTH BIR	202	202	8.24
20	2017UEC1110	KUSHAGRA GUPTA	203	203	7.35
21	2017UEC1135	HEMANT KUMAR	203	203	6.79
22	2017UEC1150	PARTH GOYAL	202	202	6.28
23	2017UEC1170	KETHAVATH KALIDAS NAYAK	203	203	5.95
24	2017UEC1180	ABHISHEK CHAUDHARY	202	202	6.72
25	2017UEC1194	RITIKA RAJESH MOR	202	202	9.03
26	2017UEC1197	INDERJEET SINGH	202	202	8.20
27	2017UEC1207	VIPUL RAJ SINGH	203	203	7.50
28	2017UEC1213	SACHIN SINGHAL	202	202	5.70
29	2017UEC1215	RUCHIKA BAKOLIA	202	202	6.65
30	2017UEC1218	RAMKARAN	203	203	6.61
31	2017UEC1220	MOHIT SONI	202	202	7.63
32	2017UEC1226	SACHIN YADAV	202	202	6.63
33	2017UEC1231	SURYAPRAKASH AGARWAL	202	202	8.72
34	2017UEC1236	VASU VERMA	202	202	8.48
35	2017UEC1239	ANJALI DEVACHA	202	202	8.09
36	2017UEC1242	VAIBHAV VERMA	203	203	5.44
37	2017UEC1250	PRASTIK GYAWALI	202	202	7.18
38	2017UEC1285	CHARAN SINGH	203	203	8.26
39	2017UEC1286	DILPREET SINGH	202	202	8.41
40	2017UEC1289	ADITI SINGHAL	202	202	9.04
41	2017UEC1292	SOURABH KUMAR	202	202	7.66
42	2017UEC1294	ANIL SINGARIYA	202	202	6.05
43	2017UEC1300	MUKESH KUMAR	203	203	5.66
44	2017UEC1305	PRADUMN OJHA	202	202	6.51
45	2017UEC1312	RAJAT JAKHAR	202	202	7.53
46	2017UEC1315	AVINASH MEHTO	202	202	6.41
47	2017UEC1328	NIKHIL PAL SINGH	202	202	6.28
48	2017UEC1341	KESHAV SARRAF	202	202	7.46
49	2017UEC1350	HIMANSHU SINGHAL	203	203	7.38

50	2017UEC1359	SAHIL KHANDELWAL	203	203	8.32
51	2017UEC1378	RAHUL GARVA	202	202	6.40
52	2017UEC1392	NAMAN SONI	202	202	8.11
53	2017UEC1425	SHOMIL MAURYA	202	202	8.00
54	2017UEC1427	SHOBHA SIRVI	203	203	6.22
55	2017UEC1442	ASHWANI	202	202	7.78
56	2017UEC1449	AINALA JASWANTH CHAKRAVARTHI	202	202	6.48
57	2017UEC1456	SUMIT GUPTA	202	202	7.66
58	2017UEC1457	ANURAG TRIPATHI	202	202	7.72
59	2017UEC1462	AVIRAL MAHESHWARI	203	203	7.10
60	2017UEC1470	JASKARAN SINGH KAINTH	202	202	8.57
61	2017UEC1504	RIDHIMA	203	203	8.25
62	2017UEC1525	MANISH KUMAR SINGH	202	202	7.68
63	2017UEC1537	AKSHAT GARG	202	202	8.53
64	2017UEC1540	RADHIKA JUNEJA	202	202	8.06
65	2017UEC1545	KUNAL AGARWAL	203	203	8.36
66	2017UEC1547	TANMAY AGARWAL	202	202	8.73
67	2017UEC1568	JAGMEET SINGH	202	202	7.58
68	2017UEC1571	ANIRUDH MAHESHWARI	203	203	7.41
69	2017UEC1575	JAYESH KUMAR SUTHAR	203	203	7.55
70	2017UEC1581	ANURAG SRIGYAN	202	202	7.70
71	2017UEC1586	ARJUN SINGH RATHORE	203	203	8.26
72	2017UEC1587	HARDIK BANTHIA	202	202	8.13
73	2017UEC1604	KAUSTUBH MANI KANAUJIA	202	202	9.28
74	2017UEC1607	ABHINAV ARYA	202	202	6.62
75	2017UEC1619	PRATIKSHA	202	202	9.61
76	2017UEC1621	PRANJAL PATEL	202	202	8.65
77	2017UEC1623	AYUSH MANGLA	202	202	9.84
78	2017UEC1633	RAVI SARASWAT	202	202	6.64
79	2017UEC1641	HARDIK PANDYA	202	202	8.02
80	2017UEC1642	SHRIRAM SHARMA	202	202	7.57
81	2017UEC1646	HARSHIT GARG	202	202	6.78
82	2017UEC1651	KUNAL BHATU WANI	202	202	9.07
83	2017UEC1662	AKSHAT GULKHANDIA	202	202	8.03
84	2017UEC1665	SURESH MEENA	202	202	6.43
85	2017UEC1671	HIMANSHU LAL	202	202	8.10
86	2017UEC1676	PULKIT SHARMA	203	203	8.30
87	2017UEC1678	NAMAN SANGHI	203	203	7.21
88	2017UEC1683	VISHAL KOTHARI	203	203	7.39
89	2017UEC1686	ASHUTOSH MAKHARIYA	203	203	8.99
90	2017UEC1688	MAYUR SHANKAR	203	203	8.58
91	2017UEC1751	RAJEEV RATAN MAURYA	202	202	6.83
92	2017UEC1752	PRASHANT RAJPUT	202	202	7.67
93	2017UEC1755	SHISHANT KUMAR	203	203	7.46
94	2017UEC1759	BIDARI PANINDRA KUMAR	203	203	6.55
95	2017UEC1772	CHIRANJEEV SINGH	203	203	7.77
96	2017UEC1782	MANISH SINGH RATHORE	202	202	8.43
97	2017UEC1788	ADITYA MUDGAL	202	202	7.23

Mechanical Engineering

1	2014UME1328	MADDULA JAGAN	198	198	4.94
2	2017UME1004	JAGATH JEEVAN SHA	198	198	5.18
3	2017UME1006	KIRAN BRAHMA MEDASANI	198	198	6.82
4	2017UME1014	MOHAMMED NAJI	198	198	6.20
5	2017UME1024	SHIVAM PRASAD GUPTA	198	198	7.17
6	2017UME1025	KARAN KHANNA	198	198	5.53
7	2017UME1030	VATSAL JAIN	199	199	8.52
8	2017UME1042	AJAY VERMA	199	199	6.75
9	2017UME1053	MUKUL VERMA	199	199	6.71
10	2017UME1068	ARJUN JAKHAR	199	199	9.30
11	2017UME1074	RAHUL RAJESH KUMAR LADDHA	199	199	7.41
12	2017UME1081	DIVYANSHU KUMAR	198	198	9.02
13	2017UME1086	YAGESH AGRAWAL	199	199	6.61
14	2017UME1088	ABHISHEK KUMAR DHYAWANA	198	198	8.42
15	2017UME1093	RAVINDRA SIYAG	198	198	7.75
16	2017UME1094	DHANRAJ MEGHVANSHI	198	198	8.08
17	2017UME1102	MANJEET	199	199	6.85
18	2017UME1109	SUNIL KUMAR	198	198	7.30
19	2017UME1118	VIKAS NITHARWAL	198	198	6.62
20	2017UME1126	SAGAR RAWAL	199	199	8.30
21	2017UME1127	NITIN PAREEK	200	200	6.88
22	2017UME1133	SHIVANG SHARMA	198	198	7.26
23	2017UME1136	ADIT AGARWAL	198	198	8.41
24	2017UME1157	PARVEEN KUMAR	198	198	5.98
25	2017UME1161	MAYANK CHHIPA	198	198	8.70
26	2017UME1164	PIYUSH AGARWAL	199	199	7.26
27	2017UME1174	KARTIK JAIN	199	199	7.39
28	2017UME1178	AKHILESH KUMAR KASHYAP	200	200	7.81
29	2017UME1193	DIVYANSHU GUPTA	199	199	7.69
30	2017UME1195	JAI KUMAR UPADHYAY	198	198	7.39
31	2017UME1199	DEEPAK KUMAR VERMA	198	198	8.23
32	2017UME1210	ARUN KHARE	198	198	8.09
33	2017UME1214	VAIBHAV SHARMA	198	198	7.90
34	2017UME1222	SIDDHANT SINGH	201	201	8.35
35	2017UME1224	HARSH	199	199	6.82
36	2017UME1228	ANSHUL MAHESHWARI	198	198	8.27
37	2017UME1229	ABHISHEK MEENA	199	199	5.94
38	2017UME1235	AADITYA CHATUR	199	199	7.99
39	2017UME1241	HREYAS CHANDRASHEKHAR CHANDANNAVA	198	198	6.57
40	2017UME1252	SANKALP SINGH	198	198	8.85
41	2017UME1256	MOHIT KUMAR	198	198	8.13
42	2017UME1258	PRIYADARSHEE P ANAND	198	198	6.48
43	2017UME1266	SHUBHAM PUROHIT	198	198	8.26
44	2017UME1271	KUNDAN KUMAR MANDAWARIA	198	198	5.24
45	2017UME1277	RAVI BAHADUR	199	199	8.02
46	2017UME1287	MOHAMMAD AMIR	198	198	6.74
47	2017UME1322	HEMANT KUMAR SHARMA	199	199	8.14

48	2017UME1326	SANKET AVINASH AINAPURE	198	198	5.89
49	2017UME1335	AAYUSH MOHTA	198	198	6.85
50	2017UME1338	SULABH RAI	198	198	8.02
51	2017UME1346	SHYAM VERMA	198	198	6.08
52	2017UME1347	ANSHUL PARATE	198	198	8.19
53	2017UME1352	MRIDUL SINGHAL	198	198	8.18
54	2017UME1353	SAUMAY GUPTA	199	199	8.70
55	2017UME1354	AJAY KUMAR MAUR	198	198	9.06
56	2017UME1357	KAMLESH KUMAR	198	198	7.49
57	2017UME1360	PRADHUMN AGNIBHOJ	199	199	6.45
58	2017UME1366	TANISHK DUDI	199	199	8.19
59	2017UME1374	TARUN RAJ	198	198	7.63
60	2017UME1396	VISHAL KUMAR BHARTI	198	198	8.44
61	2017UME1407	SARTHAK DWIVEDI	199	199	7.01
62	2017UME1423	PRAGYANSHU PANDEY	198	198	8.66
63	2017UME1428	DEEPESH YADAV	198	198	8.79
64	2017UME1451	PARAM PREET SINGH	200	200	7.80
65	2017UME1461	NAMAN KUMAR AGRAWAL	199	199	8.47
66	2017UME1465	NARENDER BHADU	199	199	6.57
67	2017UME1475	MOHAK GAUR	198	198	7.44
68	2017UME1486	JAT AJAY ANNARAM	198	198	7.49
69	2017UME1490	DEVANSHU KHANDAL	198	198	8.55
70	2017UME1498	ANKIT CHOUDHARY	198	198	7.28
71	2017UME1503	DEVANG MITTAL	199	199	8.90
72	2017UME1512	DEV VARDHAN SINGH MERTIYA	198	198	8.44
73	2017UME1514	DHEERAJ VAISHNAV	199	199	7.43
74	2017UME1519	VIRENDRA KUMAR MEENA	198	198	5.69
75	2017UME1527	MOHIT KUMAR	198	198	8.30
76	2017UME1538	HIMANSHU CHOUHAN	199	199	5.84
77	2017UME1539	MEHUL DHAKA	199	199	7.85
78	2017UME1557	HARSHIT SRIVASTAV	199	199	8.68
79	2017UME1561	NITESH SINGH	198	198	7.94
80	2017UME1565	CHANDAN KUMAR	201	201	6.29
81	2017UME1584	NITESH KUMAR	198	198	8.14
82	2017UME1599	LALIT KUMAR GARG	198	198	8.30
83	2017UME1600	AVIRAL KEDIA	198	198	7.33
84	2017UME1603	VIKRAM KUMAR	198	198	7.40
85	2017UME1606	ABHISHEK TIGGA	199	199	6.22
86	2017UME1608	RAJESH NITHARWAL	199	199	8.16
87	2017UME1609	MAHENDRA CHOUDHARY	199	199	9.07
88	2017UME1616	PULKIT AGGARWAL	198	198	8.16
89	2017UME1631	ANSHUL RATNU	198	198	8.47
90	2017UME1645	SHANKAR LAL	198	198	6.18
91	2017UME1674	MANATAVYA GUPTA	198	198	7.83
92	2017UME1685	AVIRAL SAINI	199	199	6.88
93	2017UME1702	ANANT KUMAR YADAV	200	200	6.54
94	2017UME1709	DEVANSH JINDAL	198	198	7.38
95	2017UME1717	SAKET KUMAR	198	198	6.70

96	2017UME1723	SHREY ARORA	198	198	5.94
97	2017UME1744	HEMANT SINGH	199	199	7.60
98	2017UME1746	ABHIJEET SINGH	199	199	6.03
99	2017UME1768	DANA RAM	199	199	6.78
100	2017UME1769	HIMANSHU JAIN	198	198	7.65

Metallurgical & Materials Engineering

1	2014UMT1673	KARAKA VENKATA SIVA PRATHAP	201	201	5.80
2	2016UMT1577	GORAV KUMAR	200	200	5.63
3	2017UMT1051	DIVYANSHU JAIN	201	201	6.34
4	2017UMT1062	ARCHANA MEENA	201	201	7.61
5	2017UMT1079	ABHINAV SADANY	200	200	8.07
6	2017UMT1108	YASHANK DIXIT	200	200	8.86
7	2017UMT1116	YASH GARG	201	201	8.46
8	2017UMT1125	YOGENDRA SINGH BENIWAL	200	200	6.46
9	2017UMT1134	YOGESH SHARMA	200	200	8.25
10	2017UMT1138	RIPUL VIJAY	202	202	8.31
11	2017UMT1167	VIVEK SINGH	200	200	7.51
12	2017UMT1203	VIPIN GANGWAR	200	200	7.76
13	2017UMT1206	DIKSHANT KHATRI	201	201	8.44
14	2017UMT1249	AMBALIKA SINGH	200	200	7.97
15	2017UMT1262	POOJA REGAR	202	202	7.14
16	2017UMT1270	AYUSH KUMAR KHARETE	202	202	6.57
17	2017UMT1281	SIDDIPETA JAYANTH	200	200	6.24
18	2017UMT1291	JITENDRA SINGH	201	201	8.38
19	2017UMT1304	RITIK KUMAR SINGH	200	200	7.36
20	2017UMT1310	MEENAKSHI OJHA	202	202	9.61
21	2017UMT1320	AKSHIKA SINGH	202	202	8.75
22	2017UMT1330	POOJA KUMARI GARHWAL	201	201	7.70
23	2017UMT1337	KIRAN GOVIND PUROHIT	200	200	7.88
24	2017UMT1343	JITENDRA KULDEEP	200	200	6.49
25	2017UMT1364	ROHIT SHARMA	201	201	6.34
26	2017UMT1365	RAJAT KANOJIA	200	200	8.29
27	2017UMT1391	SAURABH AGRAWAL	200	200	7.72
28	2017UMT1419	MADHAV WADHAWAN	200	200	7.91
29	2017UMT1426	MANASWITA SHEKHAR SINGH	200	200	8.60
30	2017UMT1441	NILAY JITENDRA MOHOD	200	200	7.52
31	2017UMT1444	KAMIREDDY JAYA PRAKASH	201	201	6.36
32	2017UMT1448	AFTAB AHMED	201	201	7.24
33	2017UMT1450	ANKIT	200	200	6.77
34	2017UMT1455	ELISALA SRI TEJ	201	201	6.87
35	2017UMT1460	JAGDISH BALAI	200	200	7.58
36	2017UMT1471	RAHUL KUMAR	200	200	7.46
37	2017UMT1482	SITA CHOUDHARY	201	201	9.59
38	2017UMT1483	RAJU KUMAR	200	200	7.55
39	2017UMT1495	ADITYA JAIN	202	202	7.98
40	2017UMT1501	ANMOL MITTAL	200	200	7.43
41	2017UMT1502	VAIBHAV ARORA	201	201	7.70
42	2017UMT1505	SUBHAM JAJOO	200	200	7.60

43	2017UMT1507	SAHIL TRIPATHI	201	201	8.17
44	2017UMT1528	MAHENDRA KUMAR TAKHAR	200	200	6.04
45	2017UMT1529	NEELAM KUMARI	200	200	8.33
46	2017UMT1533	BHARTI SOLIYA	201	201	7.71
47	2017UMT1534	OM PRAKASH JANGIR	200	200	6.70
48	2017UMT1536	NEHA CHOUDHARY	201	201	8.49
49	2017UMT1541	RISHABH RAJENDRA RAMTEKE	200	200	7.10
50	2017UMT1550	MAHESH PATEL	200	200	6.30
51	2017UMT1556	RANJIT KUMAR	200	200	7.80
52	2017UMT1590	RAVI KUMAR BAIRWA	200	200	5.80
53	2017UMT1611	RAJAT SRIVASTAVA	201	201	8.05
54	2017UMT1624	ANSHUL BAGRECHA	200	200	8.04
55	2017UMT1636	POONAM	201	201	8.19
56	2017UMT1658	AKASH DUDI	200	200	7.96
57	2017UMT1659	KUCHIPUDI RITHIK	200	200	6.33
58	2017UMT1660	MOHIT MANOJ JAISWAL	200	200	7.71
59	2017UMT1661	NACHIKETA DAVE	201	201	6.97
60	2017UMT1677	SHEETAL DOBWAL	201	201	7.82
61	2017UMT1680	ASHOK MEENA	200	200	5.65
62	2017UMT1690	BHAGAT SINGH	201	201	6.80
63	2017UMT1691	SHREYANSH NOWLKHA	200	200	6.57
64	2017UMT1701	YASH BHATEWARA	201	201	7.77
65	2017UMT1712	HAMZAA KHAN	201	201	8.56
66	2017UMT1713	SAKSHI SONI	202	202	8.82
67	2017UMT1715	SUDHANSHU RANJAN	200	200	6.97
68	2017UMT1716	SAMYAK SRIVASTAVA	201	201	9.49
69	2017UMT1718	GAYATRI CHADHA	201	201	8.09
70	2017UMT1719	GAURAV KUMAR SANT	201	201	7.08
71	2017UMT1729	SIDDHARTH SINGH	200	200	8.46
72	2017UMT1730	ANIKET SONI	202	202	7.04
73	2017UMT1731	LOKESH SHARMA	201	201	7.93
74	2017UMT1733	TANYA SHARMA	202	202	8.98
75	2017UMT1735	MANOJ KUMAR YADAV	201	201	8.03
76	2017UMT1739	VIKAS KUMAR MEENA	200	200	5.79
77	2017UMT1741	VIKAS TIWARI	201	201	9.01
78	2017UMT1747	NAVNEET SHAH	200	200	7.64
79	2017UMT1748	PRASANNA VENKATESH V	201	201	8.30
80	2017UMT1761	AKSHAT SHARMA	201	201	6.49
81	2017UMT1775	SHIVANSH GUPTA	201	201	7.68
82	2017UMT1777	VIVEK DHRUWE	200	200	6.21
83	2017UMT1779	JARAPALA DURGAPRASAD	200	200	5.72
84	2017UMT1783	SUDESH KUMAR	201	201	8.08

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

List of PG students to be considered for award of degree in 15th Convocation (A.Y. 2020-21)

S.No	Department	Specialization	Student ID	Name	Total Credits Registered	Total Credits Earned	CGPA
1	Architecture and Planning	Urban Planning	2019PAR5019	SAKSHI JAIN	72	72	8.67
2	Architecture and Planning	Urban Planning	2019PAR5026	ESHA SWAROOP BHATNAGAR	72	72	8.24
3	Architecture and Planning	Urban Planning	2019PAR5059	BHAVYA MEHTA	72	72	8.39
4	Architecture and Planning	Urban Planning	2019PAR5089	PRASHANT KUMAR TRIPATHI	72	72	7.41
5	Architecture and Planning	Urban Planning	2019PAR5106	RUSHIKESH RAJESH KOLTE	72	72	8.24
6	Architecture and Planning	Urban Planning	2019PAR5107	SHIVDAN RAM	72	72	8.04
7	Architecture and Planning	Urban Planning	2019PAR5122	DEEPALI MAHOUR	72	72	7.37
8	Architecture and Planning	Urban Planning	2019PAR5129	TANYA ALAVADI	72	72	8.24
9	Architecture and Planning	Urban Planning	2019PAR5130	RESHMA KHAN	72	72	7.80
10	Architecture and Planning	Urban Planning	2019PAR5152	AKANSHA MASIH	72	72	8.22
11	Architecture and Planning	Urban Planning	2019PAR5352	VAISHALI SAINI	72	72	8.43
12	Architecture and Planning	Urban Planning	2019PAR5416	POSHALA PRASHASTHI BHARATHI	72	72	8.41
13	Architecture and Planning	Urban Planning	2019PAR5513	SAURABH ANAND	72	72	7.70
14	Architecture and Planning	Urban Planning	2019PAR5518	ARPANA KUMARI	72	72	7.98
15	Architecture and Planning	Urban Planning	2019PAR5523	SHESH RAJ PRABHAKAR	72	72	7.04
16	Architecture and Planning	Urban Planning	2019PAR5564	Shipra Goswami	72	72	8.48
17	Architecture and Planning	Urban Planning	2019PAR5574	Priyanka Kumawat	72	72	7.48
18	Architecture and Planning	Urban Planning	2019PAR5703	IKRAMUDDIN KHYBER	72	72	6.43
1	Centre for Energy and Environment	Renewable Energy	2019PCV5025	PAGHDAR KHYATI RAVJIBHAI	72	72	9.48
2	Centre for Energy and Environment	Renewable Energy	2019PCV5072	MAYANKRAJ PRAJAPAT	72	72	8.78
3	Centre for Energy and Environment	Renewable Energy	2019PCV5145	ANITA SEERVI	72	72	8.45
4	Centre for Energy and Environment	Renewable Energy	2019PCV5220	ASHISH MEHRA	72	72	7.45
5	Centre for Energy and Environment	Renewable Energy	2019PCV5237	AYUSH KISHARWANI	72	72	7.33
6	Centre for Energy and Environment	Renewable Energy	2019PCV5320	AYUSH GARG	72	72	7.50
7	Centre for Energy and Environment	Renewable Energy	2019PCV5358	CHANDRA SHEKHAR PUROHIT	72	72	8.45
8	Centre for Energy and Environment	Renewable Energy	2019PCV5359	SIDDHARTH MATHUR	72	72	8.28
9	Centre for Energy and Environment	Renewable Energy	2019PCV5374	PRIYANK CHHAJED	72	72	8.38
10	Centre for Energy and Environment	Renewable Energy	2019PCV5396	PULKIT JAIN	72	72	8.55
11	Centre for Energy and Environment	Renewable Energy	2019PCV5401	DIVYA SHARMA	72	72	8.73
12	Centre for Energy and Environment	Renewable Energy	2019PCV5409	SHUBHAM	72	72	7.73
13	Centre for Energy and Environment	Renewable Energy	2019PCV5411	VIKASH KUMAWAT	72	72	8.10
14	Centre for Energy and Environment	Renewable Energy	2019PCV5426	ASHWANI KUMAR MAURYA	72	72	7.20
15	Centre for Energy and Environment	Renewable Energy	2019PCV5428	MANISH MEENA	72	72	6.95

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16	Centre for Energy and Environment	Renewable Energy	2019PCV5451	HARSH KUMAR	72	72	6.93
17	Centre for Energy and Environment	Renewable Energy	2019PCV5454	POOJA PANDEY	72	72	8.15
18	Centre for Energy and Environment	Renewable Energy	2019PCV5470	YASH NILPESHKUMAR VYAS	72	72	8.85
19	Centre for Energy and Environment	Renewable Energy	2019PCV5475	HRISHIKESH KUMAR	72	72	6.80
20	Centre for Energy and Environment	Renewable Energy	2019PCV5560	Ali Hasan Khan	72	72	7.48
1	Chemical Engineering	Chemical Engineering	2019PCH5015	SOHELA MANNA	72	72	8.48
2	Chemical Engineering	Chemical Engineering	2019PCH5034	ANNIE P JOHN	72	72	8.48
3	Chemical Engineering	Chemical Engineering	2019PCH5068	R SOUNDHARYA	72	72	8.78
4	Chemical Engineering	Chemical Engineering	2019PCH5137	GAURAV YADAV	72	72	8.10
5	Chemical Engineering	Chemical Engineering	2019PCH5199	SHAHISTA MANSURI	72	72	6.48
6	Chemical Engineering	Chemical Engineering	2019PCH5346	ASHOK BAIRWA	72	72	7.85
1	Civil Engineering	Civil Engineering (Disaster Assessment and Mitigation)	2019PCD5175	LALRAMNGHETA	70	70	7.08
2	Civil Engineering	Civil Engineering (Disaster Assessment and Mitigation)	2019PCD5324	ARUNA MALIK	70	70	8.50
3	Civil Engineering	Civil Engineering (Disaster Assessment and Mitigation)	2019PCD5444	SHRADDHA LAXMI	70	70	8.13
4	Civil Engineering	Civil Engineering (Disaster Assessment and Mitigation)	2019PCD5448	VIPIN KUMAR	70	70	7.39
5	Civil Engineering	Civil Engineering (Disaster Assessment and Mitigation)	2019PCD5476	HARSHNA VERMA	70	70	8.95
6	Civil Engineering	Civil Engineering (Disaster Assessment and Mitigation)	2019PCD5526	NIVEDIKA	70	70	6.74
1	Civil Engineering	Environmental Engineering	2019PCE5005	VISHESH VERMA	72	72	8.35
2	Civil Engineering	Environmental Engineering	2019PCE5074	TANIKA SETHI	72	72	8.85
3	Civil Engineering	Environmental Engineering	2019PCE5079	AMIT SHARMA	72	72	8.33
4	Civil Engineering	Environmental Engineering	2019PCE5088	MAYANK GUPTA	72	72	8.18
5	Civil Engineering	Environmental Engineering	2019PCE5096	NISTHA KHANDELWAL	72	72	7.73
6	Civil Engineering	Environmental Engineering	2019PCE5103	ASHWANI KUMAR	72	72	7.40
7	Civil Engineering	Environmental Engineering	2019PCE5135	ALYAS AHMED	72	72	6.88
8	Civil Engineering	Environmental Engineering	2019PCE5153	PALAK AGARWAL	72	72	9.18
9	Civil Engineering	Environmental Engineering	2019PCE5159	NIRMALA MEGHWAL	72	72	6.43
10	Civil Engineering	Environmental Engineering	2019PCE5168	PRATEEK SINGH	72	72	7.25
11	Civil Engineering	Environmental Engineering	2019PCE5238	RAJAT KUMAR	72	72	8.30
12	Civil Engineering	Environmental Engineering	2019PCE5271	DEVKARAN	72	72	6.25
13	Civil Engineering	Environmental Engineering	2019PCE5347	MADHVENDRA PAL SINGH	72	72	8.23
14	Civil Engineering	Environmental Engineering	2019PCE5354	BHAWANA TIKKIWAL	72	72	8.30
15	Civil Engineering	Environmental Engineering	2019PCE5377	AMIT KUMAR MEENA	72	72	6.75

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16	Civil Engineering	Environmental Engineering	2019PCE5469	SHUBHAM	72	72	8.03
1	Civil Engineering	Structural Engineering	2019PCS5031	DONGA TUSHAR RAJESHBHAI	74	74	8.69
2	Civil Engineering	Structural Engineering	2019PCS5049	JAY PRAKASH	74	74	7.07
3	Civil Engineering	Structural Engineering	2019PCS5053	YALAMANCHILI K P M KRISHNA CHOWDARY	74	74	8.43
4	Civil Engineering	Structural Engineering	2019PCS5086	JITENDRA MEENA	74	74	7.48
5	Civil Engineering	Structural Engineering	2019PCS5099	JONESH KUMAR BIJARNIYA	74	74	8.24
6	Civil Engineering	Structural Engineering	2019PCS5101	MOHAMMAD HARUN	74	74	8.60
7	Civil Engineering	Structural Engineering	2019PCS5155	DIVYANSH JAIN	74	74	7.83
8	Civil Engineering	Structural Engineering	2019PCS5171	MAHENDRA MEGHWAL	74	74	7.17
9	Civil Engineering	Structural Engineering	2019PCS5201	RAJAT KUMAR GOYAL	74	74	7.62
10	Civil Engineering	Structural Engineering	2019PCS5204	GAURAV Trivedi	74	74	9.33
11	Civil Engineering	Structural Engineering	2019PCS5227	ABRAR AHMAD KHAN	74	74	7.71
12	Civil Engineering	Structural Engineering	2019PCS5269	HIMANSHU SAUGAT	74	74	8.07
13	Civil Engineering	Structural Engineering	2019PCS5281	RAMKESH PRAJAPAT	74	74	7.79
14	Civil Engineering	Structural Engineering	2019PCS5446	SURYA KANT SHARMA	74	74	8.05
15	Civil Engineering	Structural Engineering	2019PCS5477	B RAJESH	74	74	7.31
16	Civil Engineering	Structural Engineering	2019PCS5488	GOUTHAM M	74	74	8.43
17	Civil Engineering	Structural Engineering	2019PCS5516	ANKIT SARRAF	74	74	8.33
18	Civil Engineering	Structural Engineering	2019PCS5573	Abhinav Sharma	74	74	7.17
1	Civil Engineering	Transportation Engineering	2018PCT5236	ANINDYA CHAWLA	70	70	8.34
2	Civil Engineering	Transportation Engineering	2018PCT5239	HARSHUL AGARWAL	70	70	7.24
3	Civil Engineering	Transportation Engineering	2019PCT5003	APOORV GUPTA	70	70	8.55
4	Civil Engineering	Transportation Engineering	2019PCT5017	DEEPAK KATARA	70	70	7.18
5	Civil Engineering	Transportation Engineering	2019PCT5073	ABHINAV DHAYAL	70	70	8.84
6	Civil Engineering	Transportation Engineering	2019PCT5098	SHAKSHI GUPTA	70	70	8.03
7	Civil Engineering	Transportation Engineering	2019PCT5108	KRITIKA BIJARNIA	70	70	8.16
8	Civil Engineering	Transportation Engineering	2019PCT5125	NITIN MEENA	70	70	8.08
9	Civil Engineering	Transportation Engineering	2019PCT5133	AMAN AGARWAL	70	70	7.95
10	Civil Engineering	Transportation Engineering	2019PCT5134	HARSHA CHOUDHARY	70	70	8.95
11	Civil Engineering	Transportation Engineering	2019PCT5177	MOHD DANISH	70	70	9.24
12	Civil Engineering	Transportation Engineering	2019PCT5223	ADITYA LALSOTIA	70	70	7.58
13	Civil Engineering	Transportation Engineering	2019PCT5304	KHUSHBOO	70	70	7.03
14	Civil Engineering	Transportation Engineering	2019PCT5305	AKANKSHA	70	70	7.47
15	Civil Engineering	Transportation Engineering	2019PCT5311	SONU PRAJAPAT	70	70	7.76
16	Civil Engineering	Transportation Engineering	2019PCT5385	POOJA RAJORIA	70	70	7.71
17	Civil Engineering	Transportation Engineering	2019PCT5521	BHAWANI SHANKAR SHARMA	70	70	7.53
18	Civil Engineering	Transportation Engineering	2019PCT5561	Jayant Soni	70	70	9.39
19	Civil Engineering	Transportation Engineering	2019PCT5584	Priyanka Verma	70	70	7.21

20	Civil Engineering	Transportation Engineering	2019PCT5600	Sudhir	70	70	9.61
1	Civil Engineering	Water Resources Engineering	2017PCW5385	BRIJLATA	71	71	6.36
2	Civil Engineering	Water Resources Engineering	2019PCW5035	SHRUTI LOKWANI	70	70	8.84
3	Civil Engineering	Water Resources Engineering	2019PCW5041	SURBHIT	70	70	6.97
4	Civil Engineering	Water Resources Engineering	2019PCW5045	MOHIT KHANDELWAL	70	70	7.55
5	Civil Engineering	Water Resources Engineering	2019PCW5054	AJAY JAIN	70	70	8.55
6	Civil Engineering	Water Resources Engineering	2019PCW5084	MANISHA KUMARI KHARDIA	70	70	7.03
7	Civil Engineering	Water Resources Engineering	2019PCW5090	RAVINDRA KUMAR	70	70	7.71
8	Civil Engineering	Water Resources Engineering	2019PCW5179	DIPANSHU SHARMA	70	70	8.82
9	Civil Engineering	Water Resources Engineering	2019PCW5192	YOGESH KUMAR	70	70	6.97
10	Civil Engineering	Water Resources Engineering	2019PCW5198	ISHAN NANAWATI	70	70	7.26
11	Civil Engineering	Water Resources Engineering	2019PCW5207	HARSHITA MEENA	70	70	7.45
12	Civil Engineering	Water Resources Engineering	2019PCW5216	TAMANNA AGRAWAL	70	70	8.76
13	Civil Engineering	Water Resources Engineering	2019PCW5287	VISHAL SHARMA	70	70	7.00
14	Civil Engineering	Water Resources Engineering	2019PCW5363	SANDEEP KUMAR YADAV	70	70	6.74
15	Civil Engineering	Water Resources Engineering	2019PCW5379	HITENDRA SINGH JAT	70	70	8.11
16	Civil Engineering	Water Resources Engineering	2019PCW5398	DHANANJAY YADAV	70	70	6.58
17	Civil Engineering	Water Resources Engineering	2019PCW5467	JAYANT SANKHLA	70	70	7.34
18	Civil Engineering	Water Resources Engineering	2019PCW5511	NAVEEN RAJAIN	70	70	7.82
1	Computer Science and Engineering	Computer Engineering	2019PCP5028	SAKSHI PARASHAR	72	72	8.55
2	Computer Science and Engineering	Computer Engineering	2019PCP5037	MRIDUL GUPTA	72	72	8.45
3	Computer Science and Engineering	Computer Engineering	2019PCP5048	HARSHAL KAUSHIKBHAI KA. PATEL	72	72	8.48
4	Computer Science and Engineering	Computer Engineering	2019PCP5075	YOGRAJ MEENA	72	72	8.23
5	Computer Science and Engineering	Computer Engineering	2019PCP5150	GHARAT SNEHAL RAJENDRA	72	72	8.68
6	Computer Science and Engineering	Computer Engineering	2019PCP5154	SHUBHANSHU KUMAR MISHRA	72	72	8.23
7	Computer Science and Engineering	Computer Engineering	2019PCP5173	KULDEEP	72	72	7.98
8	Computer Science and Engineering	Computer Engineering	2019PCP5280	SHALIN KUMAR DEVAL	72	72	7.55
9	Computer Science and Engineering	Computer Engineering	2019PCP5282	RAHUL KUMAR CHAUBEY	72	72	7.45
10	Computer Science and Engineering	Computer Engineering	2019PCP5283	MANISH SUTHAR	72	72	8.00
11	Computer Science and Engineering	Computer Engineering	2019PCP5333	SHABNAM ALI	72	72	8.38
12	Computer Science and Engineering	Computer Engineering	2019PCP5392	PRATIBHA RAWAT	72	72	8.35
13	Computer Science and Engineering	Computer Engineering	2019PCP5394	BABLOO KUMAR	72	72	6.80
14	Computer Science and Engineering	Computer Engineering	2019PCP5395	SHAILENDRA KUMAR	72	72	6.53
15	Computer Science and Engineering	Computer Engineering	2019PCP5418	VARUN KHARE	72	72	6.70
16	Computer Science and Engineering	Computer Engineering	2019PCP5422	SHIVENDRA SINGH	72	72	7.45
17	Computer Science and Engineering	Computer Engineering	2019PCP5456	AARADHANA SAHU	72	72	8.60
18	Computer Science and Engineering	Computer Engineering	2019PCP5460	ANKUSH KUMAR	72	72	7.45
19	Computer Science and Engineering	Computer Engineering	2019PCP5471	SHIVAM SHARMA	72	72	7.30

20	Computer Science and Engineering	Computer Engineering	2019PCP5496	MOHAMMED ZABEER ALI	72	72	7.83
21	Computer Science and Engineering	Computer Engineering	2019PCP5497	SWARNLATA KUMARI	72	72	8.08
22	Computer Science and Engineering	Computer Engineering	2019PCP5499	DEEPALI SINGH	72	72	8.55
23	Computer Science and Engineering	Computer Engineering	2019PCP5500	ANSHITA VERMA	72	72	7.90
24	Computer Science and Engineering	Computer Engineering	2019PCP5505	RAJESH BISWAS	72	72	7.60
25	Computer Science and Engineering	Computer Engineering	2019PCP5595	Siranjeevi B	72	72	7.63
26	Computer Science and Engineering	Computer Engineering	2019PCP5704	SHAMSHAD TORAKAI	72	72	6.65
1	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5006	SAKSHI SHREE	72	72	7.85
2	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5014	KUMAR ANIKET	72	72	7.93
3	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5063	HEMANT MAURYA	72	72	8.28
4	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5182	ARISH	72	72	8.10
5	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5351	OJASVI KHEMANI	72	72	7.70
6	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5365	TUSHAR GAUTAM	72	72	7.93
7	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5384	KIRTI DUBEY	72	72	8.53
8	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5386	ASHOK RATHORE	72	72	6.93
9	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5389	MANISH TOMAR	72	72	8.20
10	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5403	SUMEDH RANJAN BHAGAT	72	72	7.78
11	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5404	ROBIN SINGH	72	72	7.30
12	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5406	DHIRAJKUMAR SEKHANI	72	72	8.38
13	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5407	RATHOD RAHUL SANJAYBHAI	72	72	7.23
14	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5414	KAJAL MEENA	72	72	8.90
15	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5417	KSHITIJ AGARWAL	72	72	6.33
16	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5472	SUSHIL KUMAR	72	72	8.00

17	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5478	SHRUTI SAINI	72	72	7.23
18	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5479	RAHUL LAHRE	72	72	7.98
19	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5489	SAURABH SAGAR	72	72	7.98
20	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5490	DINESH SAINI	72	72	8.23
21	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5494	PRACHI SHRIKRUSHNA SUPE	72	72	7.23
22	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5498	DEEPIKA JASSAL	72	72	7.63
23	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5522	DEEKSHA NEELAM	72	72	8.68
24	Computer Science and Engineering	Computer Engineering and Information Security	2019PIS5525	MOHAN SINGH	72	72	7.08
1	Electrical Engineering	Power Systems	2018PES5243	HEMANT SHARMA	73	73	6.64
2	Electrical Engineering	Power Systems	2019PES5042	SHASHI KANT JATAV	73	73	8.18
3	Electrical Engineering	Power Systems	2019PES5077	SHARAD SUMAN	73	73	9.44
4	Electrical Engineering	Power Systems	2019PES5083	TARA VENKATA REDDY	73	73	7.54
5	Electrical Engineering	Power Systems	2019PES5104	AKASH KUMAR GAUTAM	73	73	7.00
6	Electrical Engineering	Power Systems	2019PES5167	SANJU KUMARI	73	73	7.74
7	Electrical Engineering	Power Systems	2019PES5185	DEVENDRA SINGH	73	73	8.08
8	Electrical Engineering	Power Systems	2019PES5196	ANIRBAN MAJUMDAR	73	73	7.79
9	Electrical Engineering	Power Systems	2019PES5224	RINIT RAKESH	73	73	7.10
10	Electrical Engineering	Power Systems	2019PES5231	SIDDHARTH SONAL	73	73	7.67
11	Electrical Engineering	Power Systems	2019PES5243	DILLIP KUMAR SETHI	73	73	7.33
12	Electrical Engineering	Power Systems	2019PES5264	PATEL NEEL JAGDISHBHAI	73	73	8.62
13	Electrical Engineering	Power Systems	2019PES5276	SONU KUMAR GOYAL	73	73	8.33
14	Electrical Engineering	Power Systems	2019PES5290	HEENA AGGARWAL	73	73	8.87
15	Electrical Engineering	Power Systems	2019PES5312	MOHD ALI	73	73	7.18
16	Electrical Engineering	Power Systems	2019PES5326	ASHISH KUMAR WAIMAD	73	73	7.79
17	Electrical Engineering	Power Systems	2019PES5345	AKASH SHARMA	73	73	7.72
18	Electrical Engineering	Power Systems	2019PES5348	SONVEER SINGH	73	73	7.77
19	Electrical Engineering	Power Systems	2019PES5367	KULDEEP SINGH	73	73	7.87
20	Electrical Engineering	Power Systems	2019PES5419	RAJAT JAIN	73	73	7.97
21	Electrical Engineering	Power Systems	2019PES5464	MANISH KUMAR	73	73	7.15
22	Electrical Engineering	Power Systems	2019PES5465	VIKASH KUMAWAT	73	73	8.00
1	Electrical Engineering	Power Electronics and Drives	2019PPD5081	AMIT KUMAR	73	73	7.31

2	Electrical Engineering	Power Electronics and Drives	2019PPD5082	NITESH MEENA	73	73	8.13
3	Electrical Engineering	Power Electronics and Drives	2019PPD5091	NEETU SIDHHARTH	73	73	7.36
4	Electrical Engineering	Power Electronics and Drives	2019PPD5092	SUNIL KUMAR SHESMA	73	73	6.85
5	Electrical Engineering	Power Electronics and Drives	2019PPD5111	SUMIT KUMAR	73	73	8.00
6	Electrical Engineering	Power Electronics and Drives	2019PPD5170	VISHAL SINGH	73	73	7.87
7	Electrical Engineering	Power Electronics and Drives	2019PPD5187	HIMANSHU SAINI	73	73	8.21
8	Electrical Engineering	Power Electronics and Drives	2019PPD5208	VISHAL SHARMA	73	73	8.92
9	Electrical Engineering	Power Electronics and Drives	2019PPD5219	AKSHAY GUPTA	73	73	8.56
10	Electrical Engineering	Power Electronics and Drives	2019PPD5222	NIKHIL SHRIMALI	73	73	7.97
11	Electrical Engineering	Power Electronics and Drives	2019PPD5228	SURJEET CHOUDHARY	73	73	7.64
12	Electrical Engineering	Power Electronics and Drives	2019PPD5234	NITIN MATHUR	73	73	8.46
13	Electrical Engineering	Power Electronics and Drives	2019PPD5288	ANIL KUMAR BAIRWA	73	73	6.49
14	Electrical Engineering	Power Electronics and Drives	2019PPD5302	BIKRAMJEET SINGH	73	73	8.10
15	Electrical Engineering	Power Electronics and Drives	2019PPD5362	ADITI PANWAR	73	73	7.85
16	Electrical Engineering	Power Electronics and Drives	2019PPD5461	DINESH KUMAR JHANKAL	73	73	7.74
17	Electrical Engineering	Power Electronics and Drives	2019PPD5492	NEHA KUMARI	73	73	7.33
18	Electrical Engineering	Power Electronics and Drives	2019PPD5506	AKASH KUMAR SAHOO	73	73	8.64
1	Electrical Engineering	Power Systems Management	2019PSM5032	AJAY KUMAR VERMA	73	73	7.44
2	Electrical Engineering	Power Systems Management	2019PSM5157	NIKILVISH PALIWAL	73	73	8.23
3	Electrical Engineering	Power Systems Management	2019PSM5195	SARITA MEENA	73	73	7.46
4	Electrical Engineering	Power Systems Management	2019PSM5272	YASH PAL	73	73	8.49
5	Electrical Engineering	Power Systems Management	2019PSM5314	SHIVANJALI YADAV	73	73	9.56
6	Electrical Engineering	Power Systems Management	2019PSM5368	AJAY KUMAR VERMA	73	73	7.82
7	Electrical Engineering	Power Systems Management	2019PSM5383	PRERNA KUNTAL	73	73	8.26
8	Electrical Engineering	Power Systems Management	2019PSM5388	JITENDRA KUMAR	73	73	8.21
9	Electrical Engineering	Power Systems Management	2019PSM5402	ASHISH PRAJESH	73	73	7.31
10	Electrical Engineering	Power Systems Management	2019PSM5412	VANGARI UPENDRA	73	73	7.41
11	Electrical Engineering	Power Systems Management	2019PSM5415	MULAYAM SINGH CHOUDHARY	73	73	7.51
12	Electrical Engineering	Power Systems Management	2019PSM5434	KUMARI SHALINI	73	73	8.51
13	Electrical Engineering	Power Systems Management	2019PSM5435	ARUSHI RELAN	73	73	8.03
14	Electrical Engineering	Power Systems Management	2019PSM5437	AGRAWAL BHUPESHKUMAR SURESHKUMAR	73	73	8.92
15	Electrical Engineering	Power Systems Management	2019PSM5441	DEBOLEENA CHAKRABORTY	73	73	8.18
16	Electrical Engineering	Power Systems Management	2019PSM5447	BHARATH SAI KUMAR MATTAPU	73	73	8.00
17	Electrical Engineering	Power Systems Management	2019PSM5491	RAHUL KUMAR	73	73	7.00
18	Electrical Engineering	Power Systems Management	2019PSM5507	SANIKOMMU EASHWAR REDDY	73	73	7.79
19	Electrical Engineering	Power Systems Management	2019PSM5510	YERUSU TEJASWINI	73	73	8.00
20	Electrical Engineering	Power Systems Management	2019PSM5514	PANKAJ SHARMA	73	73	6.46
21	Electrical Engineering	Power Systems Management	2019PSM5519	MD KAIFI ANWAR	73	73	7.67

1	Electronics and Communication Engineering	Embedded Systems	2019PEB5040	GOPI BHATI	73	73	7.80
2	Electronics and Communication Engineering	Embedded Systems	2019PEB5058	ASHISH AGRAWAL	73	73	9.12
3	Electronics and Communication Engineering	Embedded Systems	2019PEB5123	KEVAL KEYURBHAI JOSHI	73	73	8.78
4	Electronics and Communication Engineering	Embedded Systems	2019PEB5131	AVINASH SINGH YADAV	73	73	7.88
5	Electronics and Communication Engineering	Embedded Systems	2019PEB5136	SHAHRUKH KHAN	73	73	7.85
6	Electronics and Communication Engineering	Embedded Systems	2019PEB5142	ABHINAV AGGARWAL	73	73	8.63
7	Electronics and Communication Engineering	Embedded Systems	2019PEB5277	TANVI AGRAWAL	73	73	8.41
8	Electronics and Communication Engineering	Embedded Systems	2019PEB5300	YASH SHRIVASTAVA	73	73	8.78
9	Electronics and Communication Engineering	Embedded Systems	2019PEB5313	KOR PARAS MERAMBHAI	73	73	7.95
10	Electronics and Communication Engineering	Embedded Systems	2019PEB5322	DEEPSHIKHA SHEKHAWAT	73	73	7.88
11	Electronics and Communication Engineering	Embedded Systems	2019PEB5361	NIHALIKA DUPARE	73	73	7.27
12	Electronics and Communication Engineering	Embedded Systems	2019PEB5375	SHARWAN KUMAR PATEL	73	73	8.02
13	Electronics and Communication Engineering	Embedded Systems	2019PEB5400	ROSHAN GOLADA	73	73	6.95
14	Electronics and Communication Engineering	Embedded Systems	2019PEB5405	ROSHAN PAIK	73	73	6.66
15	Electronics and Communication Engineering	Embedded Systems	2019PEB5413	NARENDRA DEVARAPALLI	73	73	8.07
16	Electronics and Communication Engineering	Embedded Systems	2019PEB5431	PRANALI PRABHAKAR KOKATE	73	73	8.63
17	Electronics and Communication Engineering	Embedded Systems	2019PEB5458	WAFA ABDULLA V.T	73	73	7.88
18	Electronics and Communication Engineering	Embedded Systems	2019PEB5493	ISHA SONI	73	73	7.85
19	Electronics and Communication Engineering	Embedded Systems	2019PEB5502	DEGULMADI VAMSHI KRISHNA	73	73	7.29
20	Electronics and Communication Engineering	Embedded Systems	2019PEB5508	HARDIC SHARMA	73	73	8.54

21	Electronics and Communication Engineering	Embedded Systems	2019PEB5520	VALA VINEETH RAO	73	73	7.15
1	Electronics and Communication Engineering	Electronics and Communication Engineering	2018PEC5174	ROHITASH VERMA	75	75	8.23
2	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5071	DIVYA BHARTI	75	75	7.16
3	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5078	LOVEENA SINGH	75	75	8.44
4	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5149	GUTTA RAMYA	75	75	9.21
5	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5151	RASHI GUPTA	75	75	9.65
6	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5209	VIPUL VIJAY	75	75	6.95
7	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5296	DIMPAL KHICHAR	75	75	8.14
8	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5299	TARUN KUMAR SURETIA	75	75	7.93
9	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5303	MANOJ RAJPUT	75	75	8.21
10	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5350	AKSHAY SUNIL SONAWANE	75	75	8.14
11	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5353	AANCHAL JAISWAL	75	75	8.16
12	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5355	RAGINI VERMA	75	75	8.37
13	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5372	ABHISHEK SINGH PATEL	75	75	8.09
14	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5410	AVINASH DUBEY	75	75	7.81
15	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5427	RAHUL RATHORE	75	75	7.51
16	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5429	SAKSHI SINGH	75	75	9.00
17	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5440	SIRCILLA ANUSHA	75	75	8.58
18	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5457	CHANDRASHEKHAR GANESH JHA	75	75	7.47
19	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5487	RICHA	75	75	7.56

20	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5512	CHANDAN KUMAR POTHAL	75	75	7.51
21	Electronics and Communication Engineering	Electronics and Communication Engineering	2019PEC5562	Ghanshyam Saini	75	75	7.47
1	Electronics and Communication Engineering	VLSI Design	2019PEV5004	ISHA TAYAL	75	75	8.67
2	Electronics and Communication Engineering	VLSI Design	2019PEV5110	DESH DEEPAK LAWANIA	75	75	8.93
3	Electronics and Communication Engineering	VLSI Design	2019PEV5114	ANJALI KUMARI	75	75	8.58
4	Electronics and Communication Engineering	VLSI Design	2019PEV5124	TANVI AGRAWAL	75	75	8.42
5	Electronics and Communication Engineering	VLSI Design	2019PEV5158	NIDHI BHARTI	75	75	7.23
6	Electronics and Communication Engineering	VLSI Design	2019PEV5161	LALIT KUMAR PANDEY	75	75	8.58
7	Electronics and Communication Engineering	VLSI Design	2019PEV5162	NARENDRA SINGH RAO	75	75	8.26
8	Electronics and Communication Engineering	VLSI Design	2019PEV5184	CHETHANA H N	75	75	9.00
9	Electronics and Communication Engineering	VLSI Design	2019PEV5190	ANKITA ARUN MOGAL	75	75	9.51
10	Electronics and Communication Engineering	VLSI Design	2019PEV5193	ASHISH KARWA	75	75	8.70
11	Electronics and Communication Engineering	VLSI Design	2019PEV5203	M HAINDHAVI	75	75	8.98
12	Electronics and Communication Engineering	VLSI Design	2019PEV5214	RAJINIKANTH R	75	75	7.86
13	Electronics and Communication Engineering	VLSI Design	2019PEV5236	SUNAY YADAV	75	75	8.56
14	Electronics and Communication Engineering	VLSI Design	2019PEV5253	SHUBHI AGRAWAL	75	75	9.63
15	Electronics and Communication Engineering	VLSI Design	2019PEV5259	NIRAJ KUMAR SHARMA	75	75	8.56
16	Electronics and Communication Engineering	VLSI Design	2019PEV5268	ARCHANA SINGHAL	75	75	8.58
17	Electronics and Communication Engineering	VLSI Design	2019PEV5319	BHAVESH KUMAR	75	75	8.16
18	Electronics and Communication Engineering	VLSI Design	2019PEV5330	KISHORI LAL MEENA	75	75	7.44

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19	Electronics and Communication Engineering	VLSI Design	2019PEV5331	JANGID TEENA MANOJKUMAR	75	75	8.81
20	Electronics and Communication Engineering	VLSI Design	2019PEV5341	ALOK BAKOLIA	75	75	8.09
21	Electronics and Communication Engineering	VLSI Design	2019PEV5376	SURAJ KUMAR	75	75	8.21
22	Electronics and Communication Engineering	VLSI Design	2019PEV5455	SHIVANK SAHU	75	75	8.09
23	Electronics and Communication Engineering	VLSI Design	2019PEV5462	DHEERAJ GUPTA	75	75	7.44
1	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5021	MOHINI SINGHAL	75	75	8.30
2	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5164	SHIKHA AWASTHI	75	75	9.09
3	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5289	VIJAY	75	75	8.30
4	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5309	NEELAM SAINI	75	75	7.72
5	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5321	MAMTA RATHORE	75	75	8.79
6	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5349	PRANAV MISHRA	75	75	9.00
7	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5357	VINIT KUMAR	75	75	7.07
8	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5360	PREETIKA GUPTA	75	75	8.51
9	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5366	SHABANA KHANAM	75	75	8.14
10	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5380	PRAGYA SAHANI	75	75	8.14
11	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5381	REHA BAGDA	75	75	9.56
12	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5387	NIKKEY SHALANI	75	75	7.26
13	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5432	LISHA	75	75	8.74
14	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5438	JYOTSNA KATIYAR	75	75	9.26
15	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5439	SHILPA GOTTAM	75	75	7.44

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16	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5459	SUSHMITA JAIN	75	75	7.65
17	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5480	ANANYA KUMAR MAURYA	75	75	7.72
18	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5482	MAYANK PATHAK	75	75	8.23
19	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5495	MAHAVEER MAHAWAR	75	75	7.23
20	Electronics and Communication Engineering	Wireless and Optical Communication	2019PWC5501	KRISHNA PAL	75	75	6.23
1	Meterial Research Center	Materials Science and Engineering	2019PMS5038	SURAJIT SAMANTA	75	75	9.58
2	Meterial Research Center	Materials Science and Engineering	2019PMS5156	ANJU	75	75	8.58
3	Meterial Research Center	Materials Science and Engineering	2019PMS5189	REKHA BISHT	75	75	9.00
4	Meterial Research Center	Materials Science and Engineering	2019PMS5205	MAYAVANSHI MILANKUMAR DAHYABHAI	75	75	8.44
5	Meterial Research Center	Materials Science and Engineering	2019PMS5369	KUSHAGRA SHARMA	75	75	8.14
6	Meterial Research Center	Materials Science and Engineering	2019PMS5421	SHIVAM SARASWAT	75	75	7.49
7	Meterial Research Center	Materials Science and Engineering	2019PMS5474	GURUDEV KUMAR	75	75	8.23
1	Mechanical Engineering	Design Engineering	2019PDE5011	MOHD ASHRAF	72	72	7.53
2	Mechanical Engineering	Design Engineering	2019PDE5022	ROHIT KUMAR SINGH	72	72	7.45
3	Mechanical Engineering	Design Engineering	2019PDE5024	SHUBHAM SHARMA	72	72	7.65
4	Mechanical Engineering	Design Engineering	2019PDE5027	ABHIMANYU SINGH	72	72	8.55
5	Mechanical Engineering	Design Engineering	2019PDE5061	DEEPENDRA SINGH MEENA	72	72	6.93
6	Mechanical Engineering	Design Engineering	2019PDE5080	HIMANSHU JANGIR	72	72	8.73
7	Mechanical Engineering	Design Engineering	2019PDE5197	ABHILASH	72	72	9.25
8	Mechanical Engineering	Design Engineering	2019PDE5212	RAJ VARUN SINGHA	72	72	7.53
9	Mechanical Engineering	Design Engineering	2019PDE5229	HEMENDRA KUMAR SATRAWLA	72	72	7.70
10	Mechanical Engineering	Design Engineering	2019PDE5239	VARUN	72	72	8.40
11	Mechanical Engineering	Design Engineering	2019PDE5254	FARHANUZZAMAN KHAN	72	72	8.68
12	Mechanical Engineering	Design Engineering	2019PDE5261	MOHIT KUMAR	72	72	8.43
13	Mechanical Engineering	Design Engineering	2019PDE5327	VIVEK SACHDEVA	72	72	9.35
14	Mechanical Engineering	Design Engineering	2019PDE5332	ASHOK	72	72	7.18
15	Mechanical Engineering	Design Engineering	2019PDE5344	VIKAS SHARMA	72	72	7.88
16	Mechanical Engineering	Design Engineering	2019PDE5399	ANCHIT MAHESHWARI	72	72	8.43
17	Mechanical Engineering	Design Engineering	2019PDE5443	ZAID JAVED	72	72	6.93
18	Mechanical Engineering	Design Engineering	2019PDE5504	ANURAG SINGH	72	72	8.08
1	Mechanical Engineering	Industrial Engineering	2018PIE5516	SONAWANE ANKITA ANIL VIJAYA	71	71	6.54
2	Mechanical Engineering	Industrial Engineering	2019PIE5001	MRIGENDRA YADAV	71	71	8.41

3	Mechanical Engineering	Industrial Engineering	2019PIE5010	ABHISHEK KUMAR	71	71	8.05
4	Mechanical Engineering	Industrial Engineering	2019PIE5033	VED PRABHA TOSHNIWAL	71	71	8.59
5	Mechanical Engineering	Industrial Engineering	2019PIE5043	TULIKA SINGH	71	71	7.72
6	Mechanical Engineering	Industrial Engineering	2019PIE5046	ALOK YADAV	71	71	6.59
7	Mechanical Engineering	Industrial Engineering	2019PIE5047	PARVINDER SINGH	71	71	7.95
8	Mechanical Engineering	Industrial Engineering	2019PIE5085	NAVIN RAJPUROHIT	71	71	8.28
9	Mechanical Engineering	Industrial Engineering	2019PIE5147	SAHDEV SINGH YADAV	71	71	7.56
10	Mechanical Engineering	Industrial Engineering	2019PIE5210	MOHD AQIB	71	71	6.82
11	Mechanical Engineering	Industrial Engineering	2019PIE5211	MANISH KUMAR	71	71	7.51
12	Mechanical Engineering	Industrial Engineering	2019PIE5245	ISHAAN DEY	71	71	8.26
13	Mechanical Engineering	Industrial Engineering	2019PIE5273	SHOBHA RATHORE	71	71	8.05
14	Mechanical Engineering	Industrial Engineering	2019PIE5279	NAINSI GUPTA	71	71	9.23
15	Mechanical Engineering	Industrial Engineering	2019PIE5306	ANJALI GANDHI	71	71	7.82
16	Mechanical Engineering	Industrial Engineering	2019PIE5391	PAWAN	71	71	7.95
17	Mechanical Engineering	Industrial Engineering	2019PIE5423	PARAS GARG	71	71	7.82
1	Mechanical Engineering	Production Engineering	2019PPE5002	RAJENDRA PRASAD MEENA	72	72	7.18
2	Mechanical Engineering	Production Engineering	2019PPE5070	MAHESHVAR NATH TRIVEDI	72	72	7.95
3	Mechanical Engineering	Production Engineering	2019PPE5087	TARUN SINGH CHOUHAN	72	72	8.13
4	Mechanical Engineering	Production Engineering	2019PPE5139	SHUBHAM SACHDEVA	72	72	8.50
5	Mechanical Engineering	Production Engineering	2019PPE5226	YUGAL KISHOR SHARMA	72	72	8.50
6	Mechanical Engineering	Production Engineering	2019PPE5235	SASHIKANT GHARTI CHHETRI	72	72	8.80
7	Mechanical Engineering	Production Engineering	2019PPE5270	SATENDRA SINGH	72	72	7.63
8	Mechanical Engineering	Production Engineering	2019PPE5286	VINOD KUMAR ASWAL	72	72	8.60
9	Mechanical Engineering	Production Engineering	2019PPE5292	ARUN WALIA	72	72	7.23
10	Mechanical Engineering	Production Engineering	2019PPE5293	YOGESH KUMAWAT	72	72	6.85
11	Mechanical Engineering	Production Engineering	2019PPE5297	GAURAV KISHOR	72	72	7.93
12	Mechanical Engineering	Production Engineering	2019PPE5342	MAHAVEER PRASAD SHARMA	72	72	9.50
13	Mechanical Engineering	Production Engineering	2019PPE5356	GAURAV SINGH	72	72	8.10
14	Mechanical Engineering	Production Engineering	2019PPE5364	VED PRAKASH SHARMA	72	72	8.65
15	Mechanical Engineering	Production Engineering	2019PPE5370	MAHESH CHAUDHARY	72	72	8.20
16	Mechanical Engineering	Production Engineering	2019PPE5408	GAJENDER KUMAR	72	72	6.90
17	Mechanical Engineering	Production Engineering	2019PPE5433	ACHARY SREERAJ VIJAYAN	72	72	7.23
18	Mechanical Engineering	Production Engineering	2019PPE5436	NISHANT YADAV	72	72	7.63
19	Mechanical Engineering	Production Engineering	2019PPE5473	ADITYA PRAKASH	72	72	7.98
20	Mechanical Engineering	Production Engineering	2019PPE5486	MANISH KUMAR JANGID	72	72	8.03
1	Mechanical Engineering	Thermal Engineering	2018PTE5245	MAHAVEER	71	71	6.90
2	Mechanical Engineering	Thermal Engineering	2019PTE5008	SHOBHIT MISHRA	71	71	8.67
3	Mechanical Engineering	Thermal Engineering	2019PTE5115	VIKRAM MEENA	71	71	7.33
4	Mechanical Engineering	Thermal Engineering	2019PTE5116	KIRTI SINGH BUNDEL	71	71	7.87

5	Mechanical Engineering	Thermal Engineering	2019PTE5132	GAURAV KUMAR GUPTA	71	71	8.28
6	Mechanical Engineering	Thermal Engineering	2019PTE5140	RAVI YADAV	71	71	8.00
7	Mechanical Engineering	Thermal Engineering	2019PTE5188	AMIT SINGH DOBAL	71	71	8.23
8	Mechanical Engineering	Thermal Engineering	2019PTE5202	SUMIT BERA	71	71	7.28
9	Mechanical Engineering	Thermal Engineering	2019PTE5251	PUSHPENDRA CHOUDHARY	71	71	7.54
10	Mechanical Engineering	Thermal Engineering	2019PTE5285	B.ABHISHEK MOHAN RAO	71	71	8.36
11	Mechanical Engineering	Thermal Engineering	2019PTE5334	KAPIL KALRA	71	71	9.31
1	Metallurgical and Materials Engineering	Metallurgical and Materials Engineering	2018PMT5251	DEVENDER SANADYA	72	72	6.73
2	Metallurgical and Materials Engineering	Metallurgical and Materials Engineering	2019PMT5095	RIYA JAJODIA	72	72	8.30
3	Metallurgical and Materials Engineering	Metallurgical and Materials Engineering	2019PMT5126	SAHITYA KUMAR	72	72	7.80
4	Metallurgical and Materials Engineering	Metallurgical and Materials Engineering	2019PMT5194	MANISH KUMAR	72	72	7.85
5	Metallurgical and Materials Engineering	Metallurgical and Materials Engineering	2019PMT5230	SHIVAM KAROLIYA	72	72	7.03
6	Metallurgical and Materials Engineering	Metallurgical and Materials Engineering	2019PMT5257	VINEET KUMAR CHAUBEY	72	72	7.10
7	Metallurgical and Materials Engineering	Metallurgical and Materials Engineering	2019PMT5262	TATHWIKA JUGUNTA	72	72	8.40
1	National Centre for Disaster Mitigation And Management	Earthquake Engineering	2019PEQ5020	BHAWNA KUMARI	71	71	9.51
2	National Centre for Disaster Mitigation And Management	Earthquake Engineering	2019PEQ5094	BHARTESH RAWAT	71	71	9.28
3	National Centre for Disaster Mitigation And Management	Earthquake Engineering	2019PEQ5097	AJAY KATARIA	71	71	7.85
4	National Centre for Disaster Mitigation And Management	Earthquake Engineering	2019PEQ5119	ALABHYA SHARMA	71	71	7.90
5	National Centre for Disaster Mitigation And Management	Earthquake Engineering	2019PEQ5206	RAHUL KUMAR MEENA	71	71	7.85
6	National Centre for Disaster Mitigation And Management	Earthquake Engineering	2019PEQ5221	PREETI VERMA	71	71	8.18
7	National Centre for Disaster Mitigation And Management	Earthquake Engineering	2019PEQ5274	ANMOL PATODIA	71	71	7.69
8	National Centre for Disaster Mitigation And Management	Earthquake Engineering	2019PEQ5425	APOORV AGARWAL	71	71	8.18
9	National Centre for Disaster Mitigation And Management	Earthquake Engineering	2019PEQ5445	JAGTESHWAR SINGH	71	71	9.59
10	National Centre for Disaster Mitigation And Management	Earthquake Engineering	2019PEQ5481	CHAITANYA BALKRUSHNA THAKARE	71	71	8.92
11	National Centre for Disaster Mitigation And Management	Earthquake Engineering	2019PEQ5484	FAIZUR RAHMAN	71	71	8.28
12	National Centre for Disaster Mitigation And Management	Earthquake Engineering	2019PEQ5515	PRATEEK PAPRIWAL	71	71	7.69

1	Chemistry	Chemistry	2019PCY5605	MEERA	93	93	9.11
2	Chemistry	Chemistry	2019PCY5607	VIPASHA GARG	93	93	8.71
3	Chemistry	Chemistry	2019PCY5608	MUKUL YADAV	93	93	7.77
4	Chemistry	Chemistry	2019PCY5611	SAGRIKA RAJPUT	93	93	9.00
5	Chemistry	Chemistry	2019PCY5613	VINITA GARG	93	93	8.81
6	Chemistry	Chemistry	2019PCY5614	HIMANSHI	93	93	9.04
7	Chemistry	Chemistry	2019PCY5616	VIVEK KUMAR	93	93	8.14
8	Chemistry	Chemistry	2019PCY5618	AJAY PARASHAR	93	93	7.66
9	Chemistry	Chemistry	2019PCY5622	JYOTI SIKARWAR	93	93	8.34
10	Chemistry	Chemistry	2019PCY5627	SHOBHIT KUMAR	93	93	7.18
11	Chemistry	Chemistry	2019PCY5628	VISHAL YADAV	93	93	7.08
12	Chemistry	Chemistry	2019PCY5631	AARTI YADAV	93	93	8.77
13	Chemistry	Chemistry	2019PCY5636	SARITA	93	93	8.40
14	Chemistry	Chemistry	2019PCY5639	HIMANI JINDAL	93	93	9.00
15	Chemistry	Chemistry	2019PCY5640	HARSHIT PATEL	93	93	8.35
16	Chemistry	Chemistry	2019PCY5646	PRASHANT	93	93	8.14
17	Chemistry	Chemistry	2019PCY5651	ARPAN SHARMA	93	93	8.72
18	Chemistry	Chemistry	2019PCY5653	DEEPAK GUPTA	93	93	7.71
19	Chemistry	Chemistry	2019PCY5662	ANITA KUMARI	93	93	7.81
20	Chemistry	Chemistry	2019PCY5665	RAFIQ MOHAMMAD	93	93	7.59
21	Chemistry	Chemistry	2019PCY5667	PRVEEN KUMAR BAIRWA	93	93	7.18
22	Chemistry	Chemistry	2019PCY5668	POOJA	93	93	7.75
23	Chemistry	Chemistry	2019PCY5678	PRIYANKA PATEL	93	93	8.81
24	Chemistry	Chemistry	2019PCY5684	RAHUL VERMA	93	93	8.43
25	Chemistry	Chemistry	2019PCY5685	SOURABH SINGH	93	93	8.39
26	Chemistry	Chemistry	2019PCY5686	NARENDRA SINGH ROHALANIYA	93	93	7.48
27	Chemistry	Chemistry	2019PCY5691	YOGITA MEENA	93	93	8.08
28	Chemistry	Chemistry	2019PCY5693	SONU MAHAWER	93	93	7.71
29	Chemistry	Chemistry	2019PCY5702	ANUPAM PRAKASH	93	93	7.52
1	Mathematics	Mathematics	2019PMA5619	LOVELY GUPTA	88	88	7.57
2	Mathematics	Mathematics	2019PMA5621	AKANKSHA SHARMA	88	88	7.00
3	Mathematics	Mathematics	2019PMA5624	MONIKA	88	88	6.77
4	Mathematics	Mathematics	2019PMA5630	RENU JINDAL	88	88	8.00
5	Mathematics	Mathematics	2019PMA5637	HADVANI GARGI RAMESHBHAI	88	88	6.41
6	Mathematics	Mathematics	2019PMA5638	HIMANI	88	88	6.70
7	Mathematics	Mathematics	2019PMA5647	VIJAY KUMAR	88	88	6.93
8	Mathematics	Mathematics	2019PMA5652	SANDIP BAIRWA	88	88	7.25
9	Mathematics	Mathematics	2019PMA5654	INDU RANI	88	88	7.20
10	Mathematics	Mathematics	2019PMA5655	NIKITA YADAV	88	88	7.84
11	Mathematics	Mathematics	2019PMA5656	SHIVANI GARG	88	88	7.70

12	Mathematics	Mathematics	2019PMA5657	SUMIT BANSAL	88	88	8.89
13	Mathematics	Mathematics	2019PMA5658	ASHA KUMAWAT	88	88	7.64
14	Mathematics	Mathematics	2019PMA5663	YOGESH AGARWAL	88	88	9.57
15	Mathematics	Mathematics	2019PMA5664	AJAY KUMAWAT	88	88	8.36
16	Mathematics	Mathematics	2019PMA5666	VISHAL	88	88	7.93
17	Mathematics	Mathematics	2019PMA5672	RINKU KUMAR YADAV	88	88	7.27
18	Mathematics	Mathematics	2019PMA5673	ISHA DEEP	88	88	7.91
19	Mathematics	Mathematics	2019PMA5674	SAURABH GUPTA	88	88	7.61
20	Mathematics	Mathematics	2019PMA5675	TEJ PRAKASH SAINI	88	88	6.34
21	Mathematics	Mathematics	2019PMA5676	PINKIY CHOUDHARY	88	88	7.48
22	Mathematics	Mathematics	2019PMA5689	DEEPAK	88	88	7.30
23	Mathematics	Mathematics	2019PMA5692	SAPNA	88	88	7.70
24	Mathematics	Mathematics	2019PMA5697	SAKSHI AGARWAL	88	88	9.16
25	Mathematics	Mathematics	2019PMA5700	MS. SHVETA JANGIR	88	88	7.16
1	Physics	Physics	2019PPH5606	ROHIT KUMAR	84	84	8.53
2	Physics	Physics	2019PPH5609	NEHA RANA	84	84	7.90
3	Physics	Physics	2019PPH5610	MEGHA GARG	84	84	8.38
4	Physics	Physics	2019PPH5612	MANOJ SHARMA	84	84	7.41
5	Physics	Physics	2019PPH5615	NIKHIL MALIK	84	84	8.62
6	Physics	Physics	2019PPH5617	KAMAL DEEP KAUR	84	84	9.08
7	Physics	Physics	2019PPH5625	AJAY KUMAR SAINI	84	84	8.47
8	Physics	Physics	2019PPH5626	GAUTAM JAIN	84	84	9.32
9	Physics	Physics	2019PPH5633	SANTOSH MEENA	84	84	7.63
10	Physics	Physics	2019PPH5634	PANKAJ MEENA	84	84	7.23
11	Physics	Physics	2019PPH5635	NAMAN JAIN	84	84	8.37
12	Physics	Physics	2019PPH5641	SAKSHI SINGH	84	84	7.01
13	Physics	Physics	2019PPH5642	SUDHAVA	84	84	9.08
14	Physics	Physics	2019PPH5643	HONEY TYAGI	84	84	8.22
15	Physics	Physics	2019PPH5644	YASHIKA GUPTA	84	84	8.49
16	Physics	Physics	2019PPH5648	PRIYANKA RAO	84	84	7.78
17	Physics	Physics	2019PPH5649	PRAVEEN KUMAR	84	84	8.36
18	Physics	Physics	2019PPH5650	MOHIT YADAV	84	84	8.23
19	Physics	Physics	2019PPH5659	AKHIL TYAGI	84	84	8.23
20	Physics	Physics	2019PPH5660	CHITRANSHI BAKSHI	84	84	9.26
21	Physics	Physics	2019PPH5661	ASHISH KUMAR	84	84	8.74
22	Physics	Physics	2019PPH5669	MEGHA	84	84	8.58
23	Physics	Physics	2019PPH5670	PRAVEEN PARASHAR	84	84	7.31
24	Physics	Physics	2019PPH5671	SARJEET	84	84	9.81
25	Physics	Physics	2019PPH5677	SAROJ CHOUDHARY	84	84	8.44
26	Physics	Physics	2019PPH5679	NITIN KUMAR RAV	84	84	7.36

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27	Physics	Physics	2019PPH5680	KAMLESH KUMAR SANKHALA	84	84	7.59
28	Physics	Physics	2019PPH5681	KRISHAN ASWAL	84	84	8.36
29	Physics	Physics	2019PPH5682	GAURAV	84	84	7.53
30	Physics	Physics	2019PPH5683	BIBHUPRASAD MISHRA	84	84	8.44
31	Physics	Physics	2019PPH5694	KALPNA	84	84	8.28
32	Physics	Physics	2019PPH5698	RANJAN KUMAR	84	84	8.17
33	Physics	Physics	2019PPH5701	MANESH KUMARI	84	84	8.05
1	Management Studies	MBA	2019PBM5527	PARTH SRIVASTAVA	92	92	7.99
2	Management Studies	MBA	2019PBM5528	KUSHAGRA SOAM	92	92	8.76
3	Management Studies	MBA	2019PBM5529	ABHISHEK CHAUDHARY	92	92	7.78
4	Management Studies	MBA	2019PBM5530	AADITYA KUMAR JHA	92	92	7.69
5	Management Studies	MBA	2019PBM5531	GUNJAN KUMAR	92	92	7.11
6	Management Studies	MBA	2019PBM5532	SHEETAL KULSHRESTHA	92	92	7.30
7	Management Studies	MBA	2019PBM5533	AKSHITA KANSAL	92	92	8.40
8	Management Studies	MBA	2019PBM5534	POOJA YADAV	92	92	9.10
9	Management Studies	MBA	2019PBM5535	TRISHIKA NIGAM	92	92	8.80
10	Management Studies	MBA	2019PBM5536	DEEPALI	92	92	8.56
11	Management Studies	MBA	2019PBM5537	AKANSHA SHARMA	92	92	7.91
12	Management Studies	MBA	2019PBM5538	ADIL IMAM	92	92	6.73
13	Management Studies	MBA	2019PBM5539	SHUBHI SINGHAL	92	92	8.28
14	Management Studies	MBA	2019PBM5540	AYUSHI UNIYAL	92	92	8.31
15	Management Studies	MBA	2019PBM5541	BABITA YADAV	92	92	8.09
16	Management Studies	MBA	2019PBM5542	ARCHITA DUBEY	92	92	7.08
17	Management Studies	MBA	2019PBM5543	NANDINI SONI	92	92	8.29
18	Management Studies	MBA	2019PBM5544	ANUKRUTI GAUR	92	92	8.06
19	Management Studies	MBA	2019PBM5545	YASH KUMAR	92	92	7.14
20	Management Studies	MBA	2019PBM5546	YASH MISHRA	92	92	7.60
21	Management Studies	MBA	2019PBM5547	AARUSHI KULSHRESTHA	92	92	7.84
22	Management Studies	MBA	2019PBM5548	NEHA LAL	92	92	7.66
23	Management Studies	MBA	2019PBM5549	PRABHAT VERMA	92	92	6.88
24	Management Studies	MBA	2019PBM5550	ITI SISODIA	92	92	6.90
25	Management Studies	MBA	2019PBM5551	SANGEET KHURANA	92	92	6.68
26	Management Studies	MBA	2019PBM5552	YADUVENDRA SINGH RATHORE	92	92	7.10
27	Management Studies	MBA	2019PBM5553	SHUBHAM SONI	92	92	7.70
28	Management Studies	MBA	2019PBM5554	GAURAV KUMAR	92	92	8.24
29	Management Studies	MBA	2019PBM5555	TUHINA RANA	92	92	8.07
30	Management Studies	MBA	2019PBM5557	DIVYA SHARMA	92	92	7.20
31	Management Studies	MBA	2019PBM5559	KRISHNARAJ SINGH	92	92	8.19
32	Management Studies	MBA	2019PBM5567	SAKET KUMAR RAI	92	92	7.13
33	Management Studies	MBA	2019PBM5569	MAHIMA BADARIA	92	92	8.38

34	Management Studies	MBA	2019PBM5570	NEETI KEWALIYA	92	92	9.22
35	Management Studies	MBA	2019PBM5571	ANKITA KUMARI	92	92	7.67
36	Management Studies	MBA	2019PBM5572	PRIYANKA KUMARI	92	92	7.24
37	Management Studies	MBA	2019PBM5575	ANJALI DIWAKAR	92	92	7.14
38	Management Studies	MBA	2019PBM5576	RADHIKA PATHANIA	92	92	8.51
39	Management Studies	MBA	2019PBM5577	ADITYA SRIVASTAVA	92	92	8.48
40	Management Studies	MBA	2019PBM5578	CHANDNI MATHUR	92	92	8.47
41	Management Studies	MBA	2019PBM5579	BHUVNESH KUMAWAT	92	92	7.60
42	Management Studies	MBA	2019PBM5582	MAYANK SRIVASTAVA	92	92	7.77
43	Management Studies	MBA	2019PBM5589	SONIYA YADAV	92	92	7.13
44	Management Studies	MBA	2019PBM5592	QAYNAT	92	92	7.48
45	Management Studies	MBA	2019PBM5596	SHILPA	92	92	7.33
46	Management Studies	MBA	2019PBM5597	FAYAS N	92	92	6.60
47	Management Studies	MBA	2019PBM5598	NIHARIKA RANA	92	92	7.62
48	Management Studies	MBA	2019PBM5599	PRIYANKA VIJAY	92	92	8.07
49	Management Studies	MBA	2019PBM5601	SIDDHANT JAIN	92	92	7.68
50	Management Studies	MBA	2019PBM5696	RANJEET KUMAR	92	92	6.41

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

List of Ph.D. pass out students as on 04-08-2021 to be considered for award of degree in 15th Convocation

S.No.	ID No.	Name	FT	Dept.	Title of Thesis	Date of Viva-Voce
1	2015REN9511	Shitanshu Sapre	Full Time	Centre for Energy and Environment	Simulation and Analysis of Compressed Hydrogen Storage System for Fuel Cell Vehicle	12-03-2021
2	2015RCP9526	Riti Kushwaha	Part Time	Computer Science and Engineering	Person Authentication using Footprint Biometric Trait	22-03-2021
3	2015RCP9525	Murari Mandal	Full Time	Computer Science and Engineering	Moving Object Detection for Visual Data Analytics in Conventional and Aerial View	17-03-2021
4	2017REN9502	Bansi Lal Bairwa	Full Time	Centre for Energy and Environment	Modeling and Performance Analysis of Li-ion Battery for Electric Vehicle Drive Cycles	12-03-2021
5	2014RME9031	Mahendra Singh Shekhawat	Part Time	Mechanical Engineering	Design & Development of ED Assisted CLG for Inconel 600 Thin-walled Tube Machining	19-03-2021
6	2014RAR9026	MD. Fuzail Jawaid	OFF CAMPUS	Architecture and Planning	Environment Responsive Development Regulations for Residential Developments in Jaipur City	26-03-2021
7	2016RME9501	Jai Narain	Staff	Mechanical Engineering	A Study on Zero Accident Vision in Indian Industries	12-04-2021
8	2016REC9543	Sidharth Pancholi	Full Time	Electronics and Communication Engineering	Intelligent Upper-limb Prosthetic Control (iULP) using EMG-based Enhanced Feature Extraction and Pattern Recognition	31-03-2021
9	2017RMT9075	Vijay Kumar Pandey	Part Time	Metallurgical and Materials Engineering	Study of Thermophysical Properties and Heat Transfer using Non-Prototype Material (CaO-Fe_2O_3) for Nuclear Reactor	05-04-2021

Annexure-03

10	2017RMT9058	Sunil Kumar Jatav	Full Time	Metallurgical and Materials Engineering	Investigation of Melt Coolability with Bottom Ingression of Coolant on CaO-Fe_2O_3 Simulant Material	12-04-2021
11	2017REE9501	Patel Nirav Jayantibhai	Full Time	Electrical Engineering	Investigations on Grid Integrated Multifunctional Inverter Based Solar Photovoltaic Power Conversion System	16-04-2021
12	2016REE9506	Manaswi	Full Time	Electrical Engineering	An Efficient Topology for Electric Vehicle Battery Charging	15-04-2021
13	2017RHS9002	Ashish Karan	Part Time	Humanities and Social Science	Project Management in E-Governance : A Comparative Study of Different Methodologies Practiced in India	05-04-2021
14	2016RCE9503	Sandeep Singh Shekhawat	Full Time	Civil Engineering	Investigation of UV Disinfection of Secondary Treated Sewage with Special Emphasis on Chlorine and/or Antibiotic Resistant Bacterial Populations	30-04-2021
15	2017REE9503	Pavan Singh Tomar	Full Time	Electrical Engineering	Investigations on Soft Switching Bi-Directional DC/ DC Converters for Electric Vehicle Applications	03-05-2021
16	2012RMA9541	Amit Mathur	Part Time	Mathematics	Investigation of Certain New Aspect of Generalized Differ Integral Operator of Arbitrary Order And Their Applications	21-04-2021
17	2014RCE9002	Aakanksha Rampuria	Part Time	Civil Engineering	Wastewater Treatment in Constructed Wetlands with Special Focus on Nitrogen Transformation	01-06-2021
18	2016RCE9025	Kanika Saxena	Full Time	Civil Engineering	Comparative Study of Conventional Clariflocculator and Sludge Blanket Clarifier for Optimized Coagulation	31-05-2021
19	2015REE9536	Jyotsna Singh	Full Time	Electrical Engineering	Some Investigations on Integration of Electric Vehicles in Distribution System	04-06-2021

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20	2015RCE9050	Ashish Tambi	Part Time	Civil Engineering	Development of Low-Cost Field Test Kit for Early Presence/ Absence and Enumeration of Coliforms in Drinking Water	02-06-2021
21	2015RCP9008	Chauhan Sameersingh Ashoksingh	OFF CAMPUS	Computer Science and Engineering	An Efficient Broker based Framework for Federated Cloud	26-05-2021
22	2015RCH9506	Lokesh Kumar	Full Time	Chemical Engineering	Utilization of Marble Waste Slurry for the Synthesis of PoP through Sulfation and Desulfurization of Flue Gases	02-06-2021
23	2014REC9032	Rahul Ratnakumar	OFF CAMPUS	Electronics and Communication Engineering	Hardware Implementation of K-Means and Nature Inspired Clustering Algorithms for Real-Time Image Segmentation	07-06-2021
24	2015REC9510	Dinesh Kumar Kotary	Full Time	Electronics and Communication Engineering	Distributed Data Clustering with Density Based Approaches and Nature Inspired Algorithms for Wireless Sensor Networks	04-06-2021
25	2014REC9520	Tangudu Bharat Kumar	Full Time	Electronics and Communication Engineering	Design of Wide Range Linear OTAs and their Application in Low-Frequency Signal Conditioning Circuits	15-06-2021
26	2015REE9012	Sharma Suman Dharmpal	Full Time	Electrical Engineering	Optimal Scheduling of Electric Vehicle Aggregator in Electricity Markets	16-04-2021
27	2016RNC9520	Sunita Tolani	Full Time	NCDMM	Performance Evaluation of RC Building under Blast Loading	28-06-2021
28	2017REE9020	Priyanka Kushwaha	Full Time	Electrical Engineering	Primary Frequency Response Adequacy in Low- Carbon Power Systems	21-06-2021
29	2016RCE9537	Arjita Saxena	Full Time	Civil Engineering	Climate Change and its Impact On Watershed Behaviour	11-06-2021
30	2014RCH9066	Priya Pal	Part Time	Chemical Engineering	Synthesis, Characterization and Performance of PVDF Membranes for Liquid Mixture (Glycerol- Water) and Gaseous Mixture (H_2-CO_2/N_2) Separation	12-03-2021
31	2017RHS9004	Ruchika Mohta	Full Time	Humanities and Social Science	Indian Bicameralism: Decoding First Formative Decade (1952-1962)	23-04-2021

32	2013RCP9003	Diwakar Gautam	OFF CAMPUS	Computer Science and Engineering	Early Stage Detection and Classification of Melanoma	01-06-2021
33	2015REC9014	Gaurav Sharma	Full Time	Electronics and Communication Engineering	Register Abstraction Power-Aware Automated Test Intent for Advance Verification	05-07-2021
34	2016RAR9016	Manish Sharma	Part Time	Architecture and Planning	Strategies to Strengthen Urban Water Resilience at Household Level : A Case of Jaipur City, India	09-07-2021
35	2015REE9542	Rayees Ahmad Thokar	Full Time	Electrical Engineering	Some Investigations on Planning and Operation of Modern Distribution Systems	15-07-2021
36	2016RCE9515	Prarthita Basu	Full Time	Civil Engineering	Characterization of Dholpur Sandstone Slurry and its Gainful Application in Sustainable Self-Compacting Concrete	20-07-2021
37	2016RMA9061	Richa Sharma	Full Time	Mathematics	On Certain Diophantine Equations	08-07-2021
38	2017RBM9003	Sneha Pandey	Full Time	Management Studies	Customer-to-Customer Value Co-Creation through Customer Engagement in Tourism Industry	26-07-2021
39	2013RCE9550	Lalit Kumar Joshi	Part Time	Civil Engineering	Role of Solid Bio Fuels and Associated Factors in Exacerbation of Respiratory Disorders in Rural Microenvironment and Interventions for Abatement of Pollutants	15-07-2021

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

First Position holders in B. Tech./B.Arch. for the academic session 2020-21

S.No.	Student Id	Student Name	Degree	CGPA
1	2016UAR1153	KHUSHHAL SINGH YADAV	ARCHITECTURE	9.29
2	2017UCH1639	SRAJAN CHATURVEDI	CHEMICAL ENGINEERING	9.30
3	2017UCE1124	NIKITA AGRAWAL	CIVIL ENGINEERING	9.49
4	2017UCP1356	HIMANSHU GWALANI	COMPUTER SCIENCE & ENGINEERING	9.44
5	2017UEE1625	DHRUV GOEL	ELECTRICAL ENGINEERING	9.65
6	2017UEC1623	AYUSH MANGLA	ELECTRONICS & COMMUNICATION ENGINEERING	9.84
7	2017UME1068	ARJUN JAKHAR	MECHANICAL ENGINEERING	9.30
8	2017UMT1310	MEENAKSHI OJHA	METALLURGICAL & MATERIALS ENGINEERING	9.61

Annexure-P1

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

First Position holders in M. Tech./M.Plan./M.Sc./MBA programme for the academic session 2020-21

S.No.	Student Id	Student Name	Department	Speciality	CGPA
1	2019PAR5019	SAKSHI JAIN	ARCHITECTURE AND PLANNING	URBAN PLANNING	8.67
2	2019PCV5025	PAGHDAR KHYATI RAVJIBHAI	CENTRE FOR ENERGY AND ENVIRONMENT	RENEWABLE ENERGY	9.48
3	2019PCH5068	R SOUNDHARYA	CHEMICAL ENGINEERING	CHEMICAL ENGINEERING	8.78
4	2019PCD5476	HARSHNA VERMA	CIVIL ENGINEERING	CIVIL ENGINEERING (DISASTER ASSESSMENT AND MITIGATION)	8.95
5	2019PCE5153	PALAK AGARWAL	CIVIL ENGINEERING	ENVIRONMENTAL ENGINEERING	9.18
6	2019PCS5204	GAURAV TRIVEDI	CIVIL ENGINEERING	STRUCTURAL ENGINEERING	9.33
7	2019PCT5600	SUDHIR	CIVIL ENGINEERING	TRANSPORTATION ENGINEERING	9.61
8	2019PCW5035	SHRUTI LOKWANI	CIVIL ENGINEERING	WATER RESOURCES ENGINEERING	8.84
9	2019PCP5150	GHARAT SNEHAL RAJENDRA	COMPUTER SCIENCE AND ENGINEERING	COMPUTER ENGINEERING	8.68
10	2019PIS5414	KAJAL MEENA	COMPUTER SCIENCE AND ENGINEERING	COMPUTER ENGINEERING AND INFORMATION SECURITY	8.90
11	2019PPD5208	VISHAL SHARMA	ELECTRICAL ENGINEERING	POWER ELECTRONICS AND DRIVES	8.92
12	2019PES5077	SHARAD SUMAN	ELECTRICAL ENGINEERING	POWER SYSTEMS	9.44
13	2019PSM5314	SHIVANJALI YADAV	ELECTRICAL ENGINEERING	POWER SYSTEMS MANAGEMENT	9.56
14	2019PEC5151	RASHI GUPTA	ELECTRONICS AND COMMUNICATION ENGINEERING	ELECTRONICS & COMMUNICATION ENGINEERING	9.65
15	2019PEB5058	ASHISH AGRAWAL	ELECTRONICS AND COMMUNICATION ENGINEERING	EMBEDDED SYSTEMS	9.12
16	2019PEV5253	SHUBHI AGRAWAL	ELECTRONICS AND COMMUNICATION ENGINEERING	VLSI DESIGN	9.63
17	2019PWC5381	REHA BAGDA	ELECTRONICS AND COMMUNICATION ENGINEERING	WIRELESS AND OPTICAL COMMUNICATION	9.56
18	2019PMS5038	SURAJIT SAMANTA	MATERIAL RESEARCH CENTER	MATERIALS SCIENCE AND ENGINEERING	9.58
19	2019PDE5327	VIVEK SACHDEVA	MECHANICAL ENGINEERING	DESIGN ENGINEERING	9.35
20	2019PIE5279	NAINSI GUPTA	MECHANICAL ENGINEERING	INDUSTRIAL ENGINEERING	9.23
21	2019PPE5342	MAHAVEER PRASAD SHARMA	MECHANICAL ENGINEERING	PRODUCTION ENGINEERING	9.50
22	2019PTE5334	KAPIL KALRA	MECHANICAL ENGINEERING	THERMAL ENGINEERING	9.31
23	2019PMT5262	TATHWIKA JUGUNTA	METALLURGICAL AND MATERIALS ENGINEERING	METALLURGICAL & MATERIALS ENGINEERING	8.40
24	2019PEQ5445	JAGTESHWAR SINGH	NATIONAL CENTRE FOR DISASTER MITIGATION AND MANAGEMENT	EARTHQUAKE ENGINEERING	9.59
25	2019PCY5605	MEERA	CHEMISTRY	CHEMISTRY	9.11
26	2019PMA5663	YOGESH AGARWAL	MATHEMATICS	MATHEMATICS	9.57
27	2019PPH5671	SARJEET	PHYSICS	PHYSICS	9.81
28	2019PBM5570	NEETI KEWALIYA	MANAGEMENT STUDIES	MBA	9.22

Annexure-P2

47th SRCB

List of students proposed for termination from Ph.D. program as per recommendation of DPGC of the concerned departments (Revised)

S.No.	Student Id	Student Name	Department	Supervisor as per ERP	Date of last fees payment	Termination Proposed as per PG RR	Remarks 1
1	2019RAR9023	MINAKSHI RAJPUT	ARCHITECTURE AND PLANNING	POOJA NIGAM	01-01-20	5.6	Not registered from the last 1 year
2	2013RCV9050	HEMANT JAIN	CENTRE FOR ENERGY AND ENVIRONMENT	SANDEEP SHRIVASTAVA	18-07-17	5.6	Not registered from the last 3.5 year & completed maximum period i.e. 07 years
3	2016REN9505	GUNJAN SARASWAT	CENTRE FOR ENERGY AND ENVIRONMENT	KAPIL PAREEK	05-01-17	5.6	Not registered from the last 04 years
4	2018RCH9007	JAYSHREE BAITOD	CHEMICAL ENGINEERING	SUJA GEORGE	18-07-19	8.3 (5)	As per PG RR 8.3 (5) Failed in Comprehensive twice
5	2011RCH7110	ARVIND KUMAR AGARWAL	CHEMICAL ENGINEERING	MANISH VASHISHTHA	05-01-16	5.6	Not registered from the last 05 year & completed maximum period i.e. 07 years
6	2013RCH9525	ASHOK SINGH	CHEMICAL ENGINEERING	SATYENDRA PRASAD CHAURASIA	15-07-16	5.6	Not registered from the last 4.5 year & completed maximum period i.e. 07 years
7	2013RCH9574	OZA AVADH RAJESHKUMAR	CHEMICAL ENGINEERING	SATYENDRA PRASAD CHAURASIA	26-07-19	5.6	Not registered from the last 1.5 year & completed maximum period i.e. 07 years
8	2015RCH9025	ANU GUPTA	CHEMICAL ENGINEERING	RAJEEV KUMAR DOHARE	30-11-15	5.6	Not registered from the last 5 years
9	2015RCH9065	ANUSHA SHARMA	CHEMICAL ENGINEERING	VIRENDRA KUAMR SAHARAN	24-12-15	5.6	Not registered from the last 5 years
10	2012RCE9040	VINEET GUPTA	CIVIL ENGINEERING	MAHESH KUMAR JAT	17-07-17	5.6	Not registered from the last 3.5 year & completed maximum period i.e. 07 years
11	2012RCE9507	RAJNEESH JAIN	CIVIL ENGINEERING	SUMIT KHANDELWAL	12-01-18	5.6	Not registered from the last 3 year & completed maximum period i.e. 07 years
12	2013RCE9064	SANJAY GUPTA	CIVIL ENGINEERING	SANDEEP CHAUDHARY	02-01-15	5.6	Not registered from the last 06 year & completed maximum period i.e. 07 years
13	2013RCE9556	RAJESH POONIA	CIVIL ENGINEERING	URMILA BRIGHU	21-07-16	5.6	Not registered from the last 4.5 year & completed maximum period i.e. 07 years
14	2014RCE9030	ADHRA SAXENA	CIVIL ENGINEERING	MAHENDER CHOUDHARY	14-07-15	5.6	Not registered from the last 5.5 year & completed maximum period i.e. 07 years
15	2015RCE9060	HIMANSHU MEEL	CIVIL ENGINEERING	Y. P. MATHUR	19-07-16	5.6	Not registered from the last 4.5 years
16	2015RCE9530	SUDHIR SHARMA	CIVIL ENGINEERING	NIVEDITA KAUL	27-09-20	5.6	Not registered from the last 06 months
17	2017RCE9018	RAJENDRA KUMAR JAIN	CIVIL ENGINEERING	GUNWANT SHARMA	26-08-20	5.6	Not registered from the last 06 months
18	2017RCE9080	ANIL BAGARIA	CIVIL ENGINEERING	VINAY AGRAWAL	02-01-19	5.6	Not registered from the last 02 years
19	2019RCE9537	AKASH AGARWAL	CIVIL ENGINEERING	AMIT KUMAR	21-09-20	5.6	Not registered from the last 06 months
20	2019RCE9054	MEGHA JAGWANI	CIVIL ENGINEERING	SANJAY MATHUR	18-01-21	8.3(5)	As per PG RR 8.3 (5) Failed in Comprehensive twice
21	2018RCP9161	VIKAS TRIPATHI	COMPUTER SCIENCE AND ENGINEERING	NAMITA MITTAL	25-01-21	8.3(2) & 5.6	As per PG RR 8.3 (2) Comprehensive not completed within stipulated time and PG RR 5.6 Absence without authorized leave
22	2013REC9510	NITESH KUMAR	ELECTRONICS AND COMMUNICATION ENGG.	RAVI KUMAR MADDILA	01-01-20	5.6	Not registered from the last 01 year & completed maximum period i.e. 07 years

Annexure -Q

S.No.	Student Id	Student Name	Department	Supervisor as per ERP	Date of last fees payment	Termination Proposed as per PG RR	Remarks 1
23	2013REC9557	DIVYANSHU GAUR	ELECTRONICS AND COMMUNICATION ENGG.	RAVI KUMAR MADDILA	20-07-16	5.6	Not registered from the last 4.5 year & completed maximum period i.e. 07 years
24	2014REC9010	ASHISH TYAGI	ELECTRONICS AND COMMUNICATION ENGG.	R. P. YADAV	21-07-17	5.6	Not registered from the last 3.5 years
25	2014REC9024	ASIF SAYEED KHAN	ELECTRONICS AND COMMUNICATION ENGG.	MOHAMMED SALIM	31-12-19	5.6	Not registered from the last 01 year
26	2014REC9511	UPENDRA CHAUDHARY	ELECTRONICS AND COMMUNICATION ENGG.	GHANSHYAM SINGH	26-12-16	5.6	Not registered from the last 04 years
27	2018REC9135	Arvind Sharma	ELECTRONICS AND COMMUNICATION ENGG.	LAVA BHARGAVA	21-09-20	5.6	Not registered from the last 06 months
28	2020REC9015	PRIYANKA PATHAK	ELECTRONICS AND COMMUNICATION ENGG.	RAVI KUMAR MADDILA	21-09-20	5.6	Not registered from the last 06 months
29	2016RMR9048	SHOBHIT KUMAR DWIVEDI	MATERIAL RESEARCH CENTER	RAGINI GUPTA	17-07-18	5.6	Not registered from the last 2.5 years
30	2013RMT9045	SANJAY MEENA	METALLURGICAL AND MATERIALS ENGINEERING	M.K.BANERJEE	14-07-15	5.6	Not registered from the last 5.5 year & completed maximum period i.e. 07 years
31	2015RPY9528	YOGESH KUMAR SAINI	PHYSICS	KAVITA LALWANI	22-12-16	5.6	Not registered from the last 04 years
32	2016RPY9059	SHIVANI SHISODIA	PHYSICS	KAMLENDRA AWASTHI	18-07-18	5.6	Not registered from the last 2.5 years
33	2017RPY9023	MANOJ KUMAR	PHYSICS	AKHILESH	12-07-18	5.6	Not registered from the last 2.5 years
34	2018RPY9030	RAJAT	PHYSICS	SUBHAYAN MANDAL	22-12-18	5.6	Not registered from the last 2 year
35	2019RPY9527	ARUN PRATAP SINGH CHAUHAN	PHYSICS	KAVITA LALWANI	06-01-20	5.6	Not registered from the last 1 year
36	2020RPY9069	RAHUL JANGIR	PHYSICS	ANIRBAN DUTTA	21-09-20	5.6	Not registered from the last 06 months
37	2011RCY7154	YOGESH DUCHANIYA	CHEMISTRY	JYOTI JOSHI	04-01-16	5.6	Not registered from the last 05 year & completed maximum period i.e. 07 years
38	2015RCY9009	SHIVA GUPTA	CHEMISTRY	RAJ KUMAR JOSHI	16-07-15	5.6	Not registered from the last 5.5 years
39	2018RMA9025	POONAM YADAV	MATHEMATICS	VARUN JINDAL	28-12-18	5.6	Not registered from the last 2 year
40	2018RMA9085	PRAVESH KUMAR	MATHEMATICS	RITU AGARWAL	03-01-19	5.6	Not registered from the last 2 year
41	2019RMA9135	MONIKA	MATHEMATICS	SANTOSH CHAUDHARY	02-01-20	5.6	Not registered from the last 1 year
42	2013RME9503	KRISHAN KUMAR KATARIA	MECHANICAL ENGINEERING	AWADHESH KUMAR BHARDWAJ	13-08-15	5.6	Not registered from the last 5.5 year & completed maximum period i.e. 07 years
43	2016RME9516	BHAGIRATHA SAHU	MECHANICAL ENGINEERING	AMAR PATNAIK	28-12-17	5.6	Not registered from the last 03 years
44	2018RME9139	Kamal Singh	MECHANICAL ENGINEERING	MAKKHAN LAL MEENA	11-07-19	5.6	Not registered from the last 1.5 year
45	2018RME9142	Sajjan Singh Bajiya	MECHANICAL ENGINEERING	HIMANSHU CHAUDHARY	24-09-20	5.6	Not registered from the last 06 months
46	2017REE9507	ASWATHI PILLAI	ELECTRICAL ENGINEERING	UDAYKUMAR YARAGATTI	23-09-20	5.6	Not registered from the last 06 months

S.No.	Student Id	Student Name	Department	Supervisor as per ERP	Date of last fees payment	Termination Proposed as per PG RR	Remarks 1
47	2018REE9131	Nitesh Kataria	ELECTRICAL ENGINEERING	VIKAS GUPTA	15-07-19	5.6	Not registered from the last 1.5 year
48	2018REE9158	Ashish Godara	ELECTRICAL ENGINEERING	PRERNA JAIN	22-07-19	5.6	Not registered from the last 1.5 year
49	2018REE9162	Nitish Kumar Yadav	ELECTRICAL ENGINEERING	RAJIVE TIWARI	30-12-18	5.6	Not registered from the last 2 year
50	2018REE9165	Gyanendra Prakash	ELECTRICAL ENGINEERING	HARPAL TIWARI	02-08-18	5.6	Not registered from the last 2.5 year
51	2013RCP9055	Mohit Kumar Gokhroo	COMPUTER SCIENCE AND ENGINEERING	PILLI EMMANUEL SHUBHAKAR	21-12-19	6.1	Completed maximum period i.e. 07 years

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Annexure -R

PhD students permitted for comprehensive exam extension
(47th SPGB Reporting Item)

S.No.	Name	Status	Student ID	Department	Extension granted up to
1.	VIKAS KUMAR JAIN	Part Time	2018RCP9154	CSE	31st March 2021 (3 Months)
2.	VIKASH TRIPATHI	Part Time	2018RCP9161	CSE	31st March 2021 (3 Months)
3.	PREM SHANKER YADAV	Part Time	2018RCP9157	CSE	31st March 2021 (3 Months)
4.	SRINIVAS YELISETTI	Part Time	2018REE9152	ELECTRICAL	31st March 2021 (3 Months)
5.	SHALINI KHARE	FULL TIME	2019REC9005	Electronics & Communication Engineering	15th April 2021 (3.5 Month)

Annexure-S

Details of Ph.D Students permitted for semester extension for January 2021 to June 2021
(47th SPGB Reporting Item)

S.No.	Student Id	Student Name	Dept.	FT/PT	Status	Semester extension required for
1.	2014RCE9065	PANKAJ MUNJAL	CIVIL ENGG.	PART TIME	6.5 years completed	14thSemester
2.	2014REC9007	VAIKUNTAPU RAMA KRISHNA	ECE	PART TIME	6.5 years completed	14thSemester
3.	2014RME9061	ANUBHAV KUMAR	MECHANICAL ENGG.	PART TIME	6.5 years completed	14thSemester
4.	2014RCP9513	AVANI SHARMA	CSE	OFF CAMPUS	6 years completed	13thSemester
5.	2014RME9552	HARSH KUMAR DIXIT	MECHANICAL ENGG.	FULL TIME	6 years completed	13thSemester
6.	2014RPY9518	SACHIN SURVE	PHYSICS	PART TIME	6 years completed	13thSemester
7.	2015RCP9023	TANVI CHAWLA	CSE	FULL TIME	5.5 years completed	12thSemester
8.	2015RCY9058	GUNTURE	CHEMISTRY	FULL TIME	5.5 years completed	12thSemester
9.	2015REC9039	VINOD KUMARI	ECE	FULL TIME	5.5 years completed	12thSemester
10.	2015REC9045	MUQUADDAR ALI	ECE	FULL TIME	5.5 years completed	12thSemester
11.	2015RME9049	PRASHANT ATHANKER	MECHANICAL ENGG.	FULL TIME	5.5 years completed	12thSemester
12.	2015RPY9026	MEGHNA RATHORE	PHYSICS	FULL TIME	5.5 years completed	12thSemester
13.	2015RPY9054	KARAM CHAND	PHYSICS	FULL TIME	5.5 years completed	12thSemester
14.	2015RPY9062	RENU DHAYAL	PHYSICS	FULL TIME	5.5 years completed	12thSemester
15.	2015RPY9063	DHANYA J S	PHYSICS	FULL TIME	5.5 years completed	12thSemester
16.	2015RCP9524	MANISHA SAMANTA	CSE	FULL TIME	5 years completed	11thSemester
17.	2015RCP9533	SHWETA SAHARAN	CSE	FULL TIME	5 years completed	11thSemester
18.	2015RCP9541	DIVYA BAIRATHI	CSE	FULL TIME	5 years completed	11thSemester
19.	2015RCP9543	ANKUR GUPTA	CSE	FULL TIME	5 years completed	11thSemester
20.	2015REC9538	VARUN SETIA	ECE	FULL TIME	5 years completed	11thSemester
21.	2015RME9516	RANA VEER PRATAP SINGH	MECHANICAL ENGG.	FULL TIME	5 years completed	11thSemester
22.	2015RMT9509	SANDEEP KUMAR	MET. & MAT.	FULL TIME	5 years completed	11thSemester
23.	2015RCE9519	KUL VAIBHAV SHARMA	CIVIL ENGG.	FULL TIME	5 years completed	11thSemester
24.	2015RCH9505	SUDHANSHU SINGH	CHEMICAL ENGG.	FULL TIME	5 years completed	11thSemester
25.	2015REE9544	RAHUL SINGHAL	ELECTRICAL ENGG.	FULL TIME	5 years completed	11thSemester
26.	2015RHS9502	GINISHA DEWANI	HSS	FULL TIME	5 years completed	11thSemester

Based on the recommendation of the concerned supervisor(s), DREC/DPGC/Convener DPGC of the concerned department and approval granted by Chairman SPGB, the following PhD students are permitted for extension of one Semester from January 2021 to June 2021 i.e. Even Semester 2020-21.

In case of 14th semester the student should complete synopsis and thesis submission within seven year. After completion of seven years there is no provision for semester extension.

Annexure -T

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
Academic Section

No. 106 Dated: 25-03-2021

NOTICE

There is a minor modification in the *Academic Calendar for Even Semester 2020-21 M. Tech./M.Plan./MBA/M.Sc. II & IV Semester (Revised) & Ph.D.*

For Ph.D. Progress Report dates may be read as **'Thursday, July 1st, 2021 to Friday, July 16th, 2021'** instead of 'Monday, April 26, 2021 to Friday, April 30, 2021'.

DEAN, ACADEMIC

Copy to: -

1. All Heads of the Departments.
2. Convener DPGC.
3. Associate Dean (PG).
4. P. S. to Director
5. P.A. to Registrar.
6. All Notice Boards.
7. Guard File.

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

ACADEMIC CALENDAR FOR II SEMESTER B.Tech./B.Arch. 2020-21

EVENTS	From	To
	Date & Day	Date & Day
Registration of II Sem UG students without late fee	Thursday, April 01, 2021	Wednesday, April 07, 2021
Commencement of Lecture Classes (online)	**Thursday, April 08, 2021**	
Registration of continuing UG students with late fee of Rs 1,000/-	Thursday, April 08, 2021	Monday, April 12, 2021
Registration of continuing UG students with late fee of Rs 10,000 (No registration after last date)	Tuesday, April 13, 2021	Friday, April 16, 2021
Course withdrawal or conversion to audit	Monday, April 26, 2021	Friday, April 30, 2021
Mid Term Feedback	Tuesday, May 11, 2021	Friday, May 14, 2021
Mid Term Examinations (MTE) (Online)	**Monday, May 17, 2021**	**Thursday, May 20, 2021**
Last date of Special MTE for absentees (on medical ground or Internet Problems)	Monday, May 31, 2021	
Last date for showing the marked answer scripts of the MTE to students	Thursday, June 03, 2021	
End Term online feedback	Monday, June 14, 2021	Friday, June 18, 2021
Last date of Lecture classes	Monday, June 21, 2021	
Physical Reporting to the Institute	Friday, June 25, 2021	Wednesday, June 30, 2021
End Term Examinations (ETE) (Offline)	**Monday, July 05, 2021**	**Saturday, July 10, 2021**
Commencement of Lab Classes for Pending and Current Sem Labs	**Monday, July 12, 2021**	
Last date for showing the marked answer scripts of the ETE to students	Friday, July 16, 2021	
Grade Submission by Course Coordinators on ERP	Thursday, July 08, 2021	Monday, July 19, 2021
Grades submission to DUGC / GMC	Friday, July 16, 2021	
Display of grades on Departmental notice board/ERP	Monday, July 19, 2021	
Lab Exams of Pending and Current Sem Labs	**Monday, August 23, 2021**	**Saturday, August 28, 2021**
Grade Submission of Lab Courses by Course Coordinators on ERP	Wednesday, August 25, 2021	Saturday, September 04, 2021
Grades submission to DUGC / GMC	Friday, September 03, 2021	
Display of grades on Departmental notice board	Monday, September 06, 2021	

Malaviya National Institute of Technology Jaipur

(3)

Office of Dean Academic Affairs

Date: 16th July 2021

Note Sheet

It is to submit that the lab classes and lab exams of previous three semesters of UG students and one semester of PG students are pending. The same cannot be conducted online. It is proposed to call the students in the campus physically as the situation due to the pandemic has shown some improvement.

The proposed plan for physical reporting and pending labs and exams for UG/PG students is attached herewith for your kind perusal.

Submitted for kind approval.

Dean, Academic Affairs

- Director App

Proposed Academic Schedule for UG/PG students

(4)

1. Present II Sem M. Tech. and all Ph.D. Students

   Offline Reporting and Hostel Allotment (only for Girl Students) 6 Aug – 8 Aug. 2021

   Offline Pending Exams: 09-13 Aug. 2021 (Including exam of RM-I & RM-II for Ph.D. Scholars)

   Grade Entry Window Open: 10-16 Aug 2021

   Registration for III Semester: 18 - 20 Aug. 2021

   After the Exam the Supervisors may/may not allow M. Tech. students to go back depending on the type of Dissertation Work.

2. Present II Sem. M. Sc. and MBA Students

   Online Registration for III Semester: 28-30 July 2021

   Commencement of Online classes for III Sem.: from 2nd Aug 2021

   (End Term Exams of II and III Semesters will be conducted Offline at the end of III Semester)

3. Present IV Semester UG students

   Offline Reporting: 26 July – 1 Aug. 2021

   Pending Lab Classes (II, III and IV Sem): 2 -14 Aug 2021

   Offline Pending Exams (Theory): 16-21 Aug. 2021

   Pending Lab Classes continued (II, III and IV Sem): 23 Aug. – 24th Sep 2021

   Pending Lab Exams: 27 Sep-8 Oct 2021

4. Present VI Semester UG students

   Offline Reporting: 2-8 Aug. 2021

   Pending Lab Classes (IV, V and VI Sem): 9-20 Aug. 2021

   Offline Pending Exams (Theory): 23-28 Aug. 2021

   Pending Lab Classes continued (IV, V and VI Sem): 30th Aug. – 24th Sep 2021

   Pending Lab Exams: 27 Sep-8 Oct 2021

5. Present II Semester UG students

   Online Registration for III Semester: 16-21 Aug 2021

   Online Classes for next semester may start Online: 23rd Aug 2021

   Exams shall be conducted Online

16/7/21

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

ACADEMIC CALENDAR FOR IX SEMESTER B. Arch. 2021-22

EVENTS	From	To
	Date & Day	Date & Day
Online Registration of IX Sem B. Arch. students	Monday, August 23, 2021	Thursday, August 26, 2021
Registration of continuing UG students with late fee of Rs 1,000/-	Friday, August 27, 2021	Monday, August 30, 2021
Registration of continuing UG students with late fee of Rs 10,000 (No registration after last date)	Tuesday, August 31, 2021	Thursday, September 02, 2021
Physical Reporting at the Institute	Friday, August 27, 2021	Thursday, September 02, 2021
Commencement of Pending Lab Classes (Offline)	**Friday, September 03, 2021**	
Pending Lab Exams	**Wednesday, September 08, 2021**	**Friday, September 10, 2021**
Course withdrawal or conversion to audit	Wednesday, September 15, 2021	Monday, September 20, 2021
Grade Submission of pending labs by Course Coordinators on ERP	Friday, September 10, 2021	Wednesday, September 15, 2021
Grades submission of pending labs to DUGC / GMC	Tuesday, September 14, 2021	
Commencement of Classes for IX Sem (Theory Classes: Online; Practical Classes: Offline)	**Monday, September 13, 2021**	
Mid Term Feedback	Monday, October 18, 2021	Friday, October 22, 2021
Mid Term Examination (Offline)	**Monday, October 25, 2021**	**Friday, October 29, 2021**
Last date for evaluating the answer scripts of MTE	Tuesday, November 09, 2021	
Last date of Special MTE for absentees (on medical ground or genuine reason only)	Friday, November 12, 2021	
End Term online feedback	Monday, December 06, 2021	Friday, December 10, 2021
Last date of classes	Friday, December 10, 2021	
End Term Examinations (ETE) (Offline)	**Monday, December 13, 2021**	**Friday, December 17, 2021**
Grade Submission by Course Coordinators on ERP	Wednesday, December 15, 2021	Wednesday, December 22, 2021
Last date for showing the marked answer scripts of the ETE to students	Monday, December 20, 2021	
Grades submission to DUGC / GMC	Tuesday, December 21, 2021	
Display of grades on Departmental notice board	Thursday, December 23, 2021	

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

ACADEMIC CALENDAR- ODD SEMESTER 2021-22 : PG & PhD (existing students)

EVENTS	From	To
	Date & Day	**Date & Day**
Commencement of online classes for M.Sc./M.B.A. III Sem	Monday, August 2, 2021	
Schedule for adding/dropping a course	Tuesday, August 10, 2021	Wednesday, August 11, 2021
Offline Reporting for existing M.Tech/M.Plan/Ph.D. students	Friday, August 6, 2021	Sunday, August 8, 2021
Offline Pending Exams for II Sem M.Tech/M.Plan and Ph.D. (RM-I & RM-II)	Monday, August 9, 2021	Friday, August 13, 2021
Grade entry on ERP	Thursday, August 12, 2021	Friday, August 20, 2021
Student feedback on ERP	Friday, August 13, 2021	Monday, August 16, 2021
Grades submission to DPGC / GMC	Thursday, August 19, 2021	
Grades display to the students on ERP	Saturday, August 21, 2021	
Registration and fee payment of existing M.Tech./M.Plan./Ph.D. Students for next semester	Monday, August 23, 2021	Thursday, August 26, 2021
Registration of existing M.Tech./M.Plan./Ph.D. Students with late fee of Rs 1,000/-	Friday, August 27, 2021	Monday, August 30, 2021
Registration of existing M.Tech./M.Plan./Ph.D. Students with late fee of Rs 10,000/-	Tuesday, August 31, 2021	Thursday, September 2, 2021
Mid Term Feedback for M.Sc./MBA III Sem	Wednesday, September 15, 2021	Friday, September 17, 2021
Mid Term Examination (MTE) of M.Sc./MBA	**Tuesday, September 21, 2021**	**Friday, September 24, 2021**
Last date of Special MTE for absentees (on medical ground only)	Thursday, September 30, 2021	
Course withdrawal or conversion to audit	Friday, October 01, 2021	Tuesday, October 05, 2021
Last date of classes for M.Sc./M.B.A.	Wednesday, November 03, 2021	
End Term online feedback	Monday, November 01, 2021	Wednesday, November 03, 2021
Offline End Term Examinations (ETE) of M.Sc./M.B.A. II & III Sem*	**Wednesday, November 10, 2021**	**Friday November 26, 2021**
Grade entry on ERP	Monday, November 22, 2021	Thursday, December 2, 2021
Grades submission to DPGC / GMC	Tuesday, November 30, 2021	
Grades display to the students on ERP	Friday, December 3, 2021	
Submission of dissertations of PG programmes/Ph.D. Progress report submission	Wednesday, December 01, 2021	Friday, December 10, 2021

***Note - The dates and mode of examination are tentative**

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
Office of Dean Academic Affairs

Minutes of Meeting

A committee was constituted, vide Office Order No. F6 (1)/MISC/MNIT/18/Pt-III/3146 dated 9th March 2021, by the competent authority to decide the fee structure for academic year 2021-22. The 1st round of meeting of the committee was held on 12th April 2021 at 4.00 PM in the Committee Room, Prabha Bhawan and the 2nd round of the meeting was conducted on 3rd June 2021 at 12:15 PM via online mode. The following members were present:

1. Prof. Urmila Brighu, Dean Academic, Convener
2. Prof. A. K. Vyas, Civil Engineering Department
3. Prof. Upender Pandel, Chief Warden
4. Prof. K. R. Niazi, Registrar
5. Prof. Lava Bhargava, Dean, Students Welfare
6. Prof. Kanupriya Sachdev, Associate Dean (PG)
7. Dr. Anil Swarnakar, Associate Dean (UG)
8. Dr. Reetu Singh, Deputy Registrar, Academic
9. Sh. Deepak Maheshwari, Assistant Registrar, Accounts

The committee deliberated on various components of the fee structure to decide the fee for students to be admitted in Academic Year 2021-22 and existing students who were admitted in previous years. The committee unanimously recommends the following revision in fee structure: -

No revision in fee structure for the existing students who were admitted in previous years i.e. before 2021-22.

At present, the refundable hostel caution money is ₹15,000/-. The Chief Warden proposed to reduce the refundable hostel caution money to ₹12,000/- and the remaining ₹3,000/- to be charged as a non-refundable fee under the new head for "Hostel and Mess admission fee". The committee agrees to the proposal and recommends reducing the Hostel Caution Money by ₹3,000/- to ₹12,000/- (Refundable) and to create a separate head of "Hostel and Mess admission fee" of ₹3,000/- (Non-Refundable). This fee will be a one-time fee collected at the time of admission from the students to be admitted in 2021-22 and onwards.

Dean Academic pointed out that the laboratories of all the departments, primarily the ones which are being used for the Under Graduate programmes require maintenance, upgrade and modernisation. Additionally, the quality of the B. Tech. Projects, Masters and Ph.D. research can be improved many folds and made innovative if funds for fabrication of reactors, models, prototypes etc. is made available to the students.

The committee unanimously agrees that being an institute of national importance, the laboratory facilities should be of world-class and hence, for the purpose it is of utmost importance to ensure the provision of dedicated funds for the maintenance and up-gradation of the laboratories at the Institute as well as for students' research and project needs.

The committee deliberated upon the options for allocation of funds including enhancement of fee. Recognizing the financial difficulties of the students/parents amid the COVID-19 pandemic, the committee members are of the view that a fee increase may cause financial hardship to the students and decided not to increase the total fees.

However, since there is a pressing need for not only repair and maintenance but up-gradation of the laboratories, the committee unanimously recommends creating a separate head of Laboratory fees. This fund is proposed to be created by reallocating the amount of the fee from the current heads of the Institute fee.

Further, the committee unanimously recommends charging ₹2,000/- per semester under 'Laboratory fees' by reducing development fee by ₹1,000/-, student welfare fee by ₹500/-, Library and Computer/Internet by ₹250/- each. In future, as and when the situation becomes normal, the reduced fee heads may be restored to the previous amounts (before reduction) and the fee under the head 'Laboratory fees' may be accommodated by increasing the institute fee by ₹2000/-.

This will be applicable for all the students to be admitted in MNIT since academic year 2016-17 and onwards. The committee further clarified that this fund may be permitted to be used for maintenance and up-gradation of the existing laboratory facilities as well as for students' project and research needs.

During the discussion, the committee noticed that the fund in the Student Welfare head is unutilized for many years. The reason for the non-utilization of funds was attributed to the absence of any guidelines to utilize such funds. The committee suggested that the competent authority may consider constituting a committee to frame the guidelines for utilization of the DSW fund.

The recommended fee structures are enclosed for consideration and approval.

Prof. Urmila Brighu
Dean, Academic

Prof. A. K. Vyas
Civil Engineering Dept.

Prof. Upender Pandel
Chief Warden

Prof. K. R Niazi
Registrar

Prof. Lava Bhargava
Dean (Students Welfare)

Prof. Kanupriya Sachdev
Associate Dean (PG)

Dr. Anil Swarnakar
Associate Dean (UG)

Dr. Reetu Singh
Dy. Registrar, Academic

Deepak Maheshwari
Asst. Registrar, Accounts

Submitted for approval.

18/6/21

26/7
25/6/21

Director

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दिनांक संख्या DIARY NO.

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY

पंजिका संख्या/FILE NO.

कार्यालय टिप्पणी

Note Sheet

पृष्ठ संख्या Page No.

ACADEMIC SECTION

Dated:17.08.2021

Subject- Fee structure for the students admitted under Study in India programme in the session 2021-22.

Fee structure for the students of UG, PG and Ph.D. programmes for the academic year 2021-22 was prepared and submitted earlier on the basis of minutes of the meeting (Fee Structure Committee) held on 12th April 2021 and 3rd June 2021 via online mode and duly approved by competent authority.

In accordance with the decision taken by the Senate in its 38th Senate meeting held on 16th November 2018 under Item No.38-4.7, the Chairman Senate constituted a committee on dated 18.01.2019 to review the fee structure of the Study in India Programme through EdCIL, New Delhi. Committee review the fee structure in the meeting held on 25.02.2019 in the office of Dean (Academic) and decided the fee structure as follows:

S. No.	Program	Tuition fee per year (in US Dollars)	Institute fees (in US Dollars)	Total fee (In US Dollars)
1.	B.Tech./B.Arch.	8000	500	8500
2.	M.Tech./M.Plan.	8000	500	8500
3.	Ph.D.	2000	500	2500

During the discussion, it was pointed out that Institute fee may kept equivalent to DASA/ICCR/Indian students. In this regard, fee structures for the students of UG, PG and Ph.D. admitted through Study in India programme for the Academic year 2021-22 is submitted for kind perusal and approval.

17/08/21

A.R. (Acad.)

17/8/21

D.R (Acad) Reetu Singh 17/8

Dean (Acad) 17/8

Director

482 17/8/21

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दैनन्दिनी संख्या
MNIT DIARY NO.

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर

MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

पंजिका संख्या / FILE NO.

Annexure -V

पृष्ठ Pa No

कार्यालय टिप्पणी

Note Sheet

ACADEMIC SECTION

Dated: 22-07-2021

Sub: Registration of the students for MBA and M.Sc. Odd Semester 2021-22.

End Term of II Semester of for MBA and M.Sc. students have not been conducted due to lockdown in the State.

As per PG Rules & Regulations student shall not allowed to continue in MBA programme if his/her CGPA is below 5.0.

In this regard, it is proposed that permission may be granted to MBA and M.Sc. students of II semester for online registration in III semester without completing End Term examination of II semester. End Term examination of II & III semester will be conducted offline at the end of III semester.

Submitted for kind approval.

DEAN, ACADEMIC

307 22/7/21 623 22/7

– Chairman, Senate

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Annexure -W

दैनन्दिनी संख्या MNIT DIARY NO.

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर
MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

पृष्ठ स Page

पंजिका संख्या / FILE NO. – MNIT/JPR/Academic

कार्यालय टिप्पणी

Note Sheet

Sub: Permitting PhD students to register in subsequent semester without considering the CGPA requirement

As per Rules & Regulations manual for Post Graduate programmes. A student will normally not be allowed to continue in the Ph.D. programme if:-

- She/he does not have CGPA of at least 7.0
- She/he accumulates eight or more Xs towards thesis grades.
- She/he accumulates six or more Xs towards thesis grades in two consecutive semesters.
- She/he secures Xs in all the thesis units registered for in two consecutive semesters. .

Also, a student will be allowed to apply for comprehensive/candidacy in the Ph.D. programme, only if she/he is able to secure CGPA of 7.5 or more.

Earlier, the students were allowed to register in more than one subject, however, owing to pandemic situation the students admitted to PhD programme in January 2021 were allowed to register only in one course i.e. Research Methodology. Due to this all the students who have secured the CGPA below 7.0 in Research Methodology are on the verge of termination from PhD programme.

As per the earlier procedure, the students were having fair chances to manage their CGPA as they were allowed to register for more than one subject, and cumulative grade only was considered for the purpose of calculating CGPA/SGPA. However, amid restrictions to register in one subject only, the students are evaluated only on the basis of one course only i.e. Research Methodology and terminating solely on the basis of one subject may be unfair.

In view of the above, it is submitted that the students should be promoted and permitted to register in subsequent semester, provided they do not receive a FA/FP grade.

This shall be one time measure only for students registered in 2020-21 (even) semester and shall not be basis for any precedence in future.

Submitted for consideration and approval

Dean Academic

Chairman Senate

Report in Senate

Annexure -X

दैनन्दिनी संख्या MNIT DIARY NO.

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर
MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

पृष्ठ संख्या Page No

पंजिका संख्या / FILE NO. – MNIT/JPR/Academic

कार्यालय टिप्पणी

Note Sheet

Sub: Nomination of student representatives in the Senate

In compliance with first statute of NITs clause 8 (xiv) two students' representatives are required to be invited during discussions of general nature in senate meeting.

As per 40th Senate meeting (Agenda Item No. 40-3.3) held on 10th November 2020, the following students were nominated as student representative in Senate:-

1. Mr. Ayush Mangla (2017UEC1623)
2. Mr. Yogesh Agarwal (2019PMA5663)

As the abovementioned students have graduated in year 2021, it is proposed that the following students may be nominated as student's representatives in the senate:-

1. Ms. Arshika Tomar (2018UCE1103), overall topper in UG amongst all the branches (CGPA 9.70 upto 3rd year B.Tech)
2. Mr. Bala Ganesh (2020PCV5316), overall topper in PG amongst 1st year all branches (CGPA 10.00 M.Tech/M.Plan/MBA/M.Sc)

Submitted for kind consideration and approval

Dean Academic

Chairman Senate

Report in Senate -