मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR



Agenda Senate

51st Meeting

Date:

30th June, 2023

Time:

11:00 AM

Venue:

Niti Sabhagar, Prabha Bhawan

MNIT, Jaipur

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

AGENDA FOR THE $51^{\rm ST}$ MEETING OF THE SENATE TO BE HELD ON $30^{\rm TH}$ JUNE 2023 (FRIDAY) AT 11.00 AM

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मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

Agenda for the 51st Meeting of the Senate (to be held on 30th June, 2023 at 11:00 AM in the Niti Sabhagar, Prabha Bhawan, MNIT, Jaipur)

Item No. 51-1.0: To confirm the minutes of the 50th meeting of the Senate held on 31st May, 2023.

The minutes of the 50th meeting of the Senate held on 31st May 2023, approved by the Chairperson, Senate was circulated to the members. No comments were received. The minutes may be confirmed.

The minutes are placed before the Senate for confirmation at Annexure-A (Pg. 11 to 17).

Item is placed for confirmation.

Item No. 51-2.0: To note the "Action Taken" on the decisions taken in the 50th meeting of the Senate.

Action Taken on the decisions made in the 50th meeting of the Senate.

ACTION TAKEN REPORT (50th Senate Meeting)

Item No.	Particulars	Decision	Action Taken
50-1-0	To confirm the minutes of the 48 th & 49 th (Emergent) meeting of the Senate held on 10 th February 2023 and 30 th March, 2023.	Since no comments were received, the Senate confirmed the minutes of 48 th & 49 th (Emergent) meeting of Senate as circulated.	Noted
50-2-0	To note the "Action Taken" on the decisions taken in the 48 th & 49 th (Emergent) meeting of the Senate.	The Senate noted the action taken report of 48 th & 49 th (Emergent) meeting. Regarding Item No. 48-2.0 the Convener of the committee constituted to propose method of identifying seniority among Assistant Professors apprised the Senate that presently, there is no clear-cut set of rules to	Committee were submitted

identify the seniority of the faculty, therefore, the committee was not able to prepare the seniority list of Assistant Professors. Senate suggested that the committee may submit its observation to Chairman Senate in this regard at the earliest even if it is not in a position of proposing a method for identifying seniority.

the same are being placed at **Annecture- B.**

Regarding Item No.48-3.3 the Senate resolved that for award of Board of Governors Gold Medal for academic toppers of PG programmes apart from CGPA and number of students, the student must be enrolled as a full time candidate.

Implemented vide Office Order No. F4/S-III-1/23-24-Acad (50-Senate)/

Regarding item 48-3.8 related to framing guidelines and policies for operations of Centers at the Institute, the Convener of the committee Prof. R.P. Yadav was requested to complete the assignment before next meeting of the Senate.

The recommendations of the committee are awaited

Regarding item 48-6.2, Senate decided to continue with the exam cell. It was suggested that the exam work may be carried out separately, preferably through Associate Dean-Exams and separate team with defined duties, so that there is no overlap of responsibility with functioning of ADUG & ADPG. It was decided that course wise time table of exams would also be notified by the Exam Cell.

Noted

Regarding Item No.49-1.1 Senate resolved that a committee of following members may be constituted to review the English-Hindi names of UG and PG programmes, the inclusion of the name of the department along with the PG specialization to be printed on degree certificates, registration number in all certificates for Digi locker requirement and any other change as found necessary:

Committee has been notified vide Office Order No. F4/S-III-1/23-24-Acad (50-Senate)/ 2723 dated 16-06-2023.

Prof. M.P. Poonia
 Prof. S.P. Chaurasia

Recommendations of the committee are awaited

3. Prof. Lava Bhargava

50-3.0	Items for consideration		
50-3.1	To consider the Scheme and detailed syllabus of UG Program.	 Resolution No. Senate-50/2023/01: The Senate deliberated on all the issues that the departments have faced while preparing the revised UG schemes. The Senate also considered the observations of the Academic Section on various UG schemes. After detailed deliberations, the Senate resolved the following. 1. All the departments/centres of the Institute will prepare the curriculum of two courses that can be offered under PLEAS/BS category. Dean, Academic will hold a meeting of all the Heads and Conveners, DUGCs of the Departments to finalize the courses that would be offered to the UG students of different programs under PLEAS/BS category. 2. Minor project (offered in the VII semester) shall be considered under practical course and shall have L-T-P of 0-0-6. As there is no provision of waiver for core courses, the students opting for semester-long internship in the VII semester may submit a report of the work done during their internship or they can carry out an independent project against the minor project. 	The revised Scheme and syllabus of UG program after incorporating the resolutions of the Senate are placed at Item No. 51-3.1 for consideration.
		3. Students opting for internship in VIII Sem will complete their major project with one supervisor each at the Institute and at the organization offering internship. In this regard, the guidelines for internship, as decided by the Institute from time to time, shall be applicable.	
		4. All the departments are required to prepare their schemes within the framework approved by the Senate. The range of credits for different semester shall be 23-27 credits for I to IV semester, 19 to 23 credits for V and VI semesters and 16 to 20 credits for VII and VIII semesters. This range is applicable for the B.Tech. scheme only. Extra credits for minor specialization and honours will be as approved by the Senate in its 44 th meeting.	

- 5. Only elective courses shall be offered in the VII and VIII semesters (except project and training seminar in VII semester). Training seminar shall uniformly be of 2 credits and shall have a L-T-P of 0 0 4.
- 6. The courses on Basic Management shall preferably be kept before V semester, if possible, but not later than VI semester. The course will be evenly distributed between the odd and even semesters to all the students of various departments by the Management department.
- 7. The minimum number of students to run any honors or minor specialization course/program will be 7.
- 8. The Senate approved the revision of the formula given in the UG regulations of the Institute and approved to follow the credit calculations as per the AICTE formula. The calculation of credits of a course from L-T-P structure shall be done by considering the formula, credits=L+T+P/2.
- 9. No course shall have both lecture and practical components. All such courses shall be divided into two courses having separate lecture and practical components. Laboratory courses of all B.Tech. programs shall uniformly be of 1 credit.
- 10. Open electives shall be offered in two semesters i.e. 1 each in VII and VIII semester.
- 11. All departmental electives are to be referred as Program Electives (no Advance electives)
- 12. Any course having a particular syllabus and title can have only one teaching scheme (L-T-P). All courses shall have unique Course Code/Course Title/Teaching Scheme/Syllabus.
- 13. The course Basic Electrical and Electronics Engg. (3-0-0) offered in the Ist year B.Tech. shall be split into two separate courses Basic Electrical Engineering (2-0-0) and Basic Electronics Engineering (2-0-0). Departments will develop course contents and get the same approved by competent authority.

		14. Technical communication (basic)' and 'Technical communication (advanced)' offered in the I st year B.Tech. shall be discontinued and shall be replaced by only one course on Technical Communication. Department will develop course contents and get the same approved by competent authority.	
		15. Efforts should be made to offer a course on BIS Standardization as an audit course of one credit, in all the UG teaching schemes of different departments.	
50-3.2	To consider the guidelines & modalities for starting M.Tech./M.Plan. + Ph.D. Dual Degree (MPDD) Program.	Resolution No. Senate-50/2023/02: The Senate approved the recommendations of the committee. Provision will be developed for considering research work against the course work that is to be done in 3 rd and 4 th Semester of M.Tech. after registration in MPDD scheme.	The proposal and recommendation of the Senate were placed in 53 rd meeting of the BoG for consideration and approval.
50-3.3	To consider new program elective courses to be offered to the students of M.Sc.	Resolution No. Senate-50/2023/03: The Senate approved the following new programme elective courses to be offered to the students of M.Sc.	
	(Mathematics) by the Department of Mathematics.	 (Mathematics) by the Department of Mathematics: i. Computational Statistics for Data Science (3 credits; L-T-P) ii. Introduction to Bayesian statistics (3 credits; L-T-P) 	Implemented
50-3.4	To consider new open elective courses to be offered to UG students by the Department of Management Studies.	Resolution No. Senate-50/2023/04: The Senate approved the following new open elective courses to be offered to UG students by the Department of Management Studies: (i) Team Building & Leadership (3 credits; 3-0-0) (ii) Introduction to Financial Markets (3 credits; 3-0-0) (iii) Labour Laws for Engineers (3 credits; 3-0-0)	Implemented
50-3.5	To consider the case for change in name and gender in all the academic documents, issued by the Institute, of Ms. Riya Saini, an alumnus of the Institute.	Resolution No. Senate-50/2023/05: Based upon the legal opinion, the Senate approved the case for change in name and gender in all the academic documents, issued by the Institute, of Ms. Riya Saini as Mr. Rahul Saini an alumnus of the Institute, following GoI norms.	Implemented vide Office Order No. F4/S-III-1/23- 24-Acad (50-Senate)/ 2720 dated 15-06-2023

50-3.6	To consider the case of Inactive UG Students who are not registered/absent from more or less than 2 semesters.	Resolution No. Senate-50/2023/06: Senate discussed the case of all Inactive UG students and resolved the Dean academic may explore the possibility of reinstating such students by contacting them through the HoDs and place the matter again before the next Senate.	An e-mail has been sent to all the students and the response is awaited.
50-4.0	Items for ratification		
50-4.1	To ratify the list of additional students eligible for award of degree in PhD programmes in the 16 th Annual Convocation in addition of earlier list approved.	Item was ratified.	Implemented
50-4.2	To ratify the Seat matrix of UG programmes for the year 2023-24.	Item was ratified.	Implemented
50-4.3	To ratify the Seat matrix of PG programmes for the year 2023-24.	Item was ratified.	Implemented
50-5.0	Items for reporting.		
50-5.1	To note the minutes of 39 th meeting of SUGB.	Noted.	No action required
50-5.2	To note the minutes of 56 th meeting of SPGB.	Noted.	No action required
50-5.3	To note the minutes of 33 rd meeting of Academic Affairs Committee meeting held on 17 th April, 2023.	Noted.	No action required
50-5.4	To note the minutes of meeting of the unfair means committee held on 16 th March 2023.	Noted.	No action required
50-6.0	Supplementary agenda		

50-6.1	To consider the proposal to start a 2-Year		
	E-MBA (Executive MBA) program by Department of Management Studies (DMS) in association with Continuing and Digital Education Centre (CDEC), MNIT Jaipur.	Resolution No. Senate-50/2023/07: Senate approved the proposal to start a 2-Year E-MBA (Executive MBA) program as proposed by the Department of Management Studies in association with Continuing and Digital Education Centre (CDEC), MNIT Jaipur with a total intake of 60.	The proposal and recommendation of the Senate were placed in 53 rd meetin of the BoG for consideration and approval.
50-6.2	To consider the proposal to promote interdisciplinary and multi-disciplinary B.Tech. major projects.	Resolution No. Senate-50/2023/08: Senate approved the proposal to promote interdisciplinary and multi-disciplinary B.Tech. major projects.	Implemented
50-6.3	To consider the institution of awards for graduating students on the basis of overall performance in curricular as well as extracurricular activities.	Resolution No. Senate-50/2023/09: Senate approved recommendations of the committee with a minor change in the evaluation criteria. The Senate approved that the minimum CGPA for award of such award/medal should be 8.5.	Implemented vide Office Order No. F4/S-III-1/23-24-Acad (50-Senate)/ dated06-2023.
50-6.4	To consider creating a provision for making minor change on the degree certificate issued by the Institute.	Resolution No. Senate-50/2023/10: Senate approved the proposal to create a provision for making minor changes on the degree certificate issued by the Institute and authorized Chairman, Senate to approve the same.	Implemented
50-6.5	To consider the case of Mr. Shantanu Bajpai for semester withdrawal on medical grounds.	Resolution No. Senate-50/2023/11: Senate allowed Mr. Shantanu Bajpai for 03 rd consecutive semester withdrawal on medical grounds.	Informed and Implemented
50-6.6	To consider issuing a clarification for provision related to early submission of PhD Thesis (before three years) under PG rule: RR 9.5.2.	Resolution No. Senate-50/2023/12: Senate authorized Chairman Senate to constitute a committee for considering pending early submission requests as well as review and suggest revised norms for early submission of Ph.D. thesis (before three years). Chairman Senate was also authorized to approve the recommendations and revised norms submitted by the committee through Dean-AA.	A committee of following members was constituted vide office order No. F6(1)Misc/MNIT/08/Pt.III/ 366 dated 14-06-2023 (i) Prof M. L. Mittal Convener

			(ii) Prof. Lava Bhargava Member (iii) Prof. Tarush Chandra- Member
50-6.7	To consider Post-Doctoral fellowship (PDF) program at MNIT Jaipur.	Resolution No. Senate-50/2023/13: Senate discussed and decided to explore the financial implications for Post-Doctoral fellowship (PDF) program at MNIT Jaipur. It was decided to check with the Ministry (MoE) for financial provisions in this regard.	A letter has been sent to MoE to explore financial provisions for Post-Doctoral fellowship (PDF) program.

Item No. 51-3.0: Items for consideration.

Item No. 51-3.1 To consider the Scheme and detailed syllabus of various UG Programs

The new curriculum structure of UG programs was approved in principle in 44th Senate. In 47th Senate meeting held on 26th September 2022 the curriculum structure of all UG programmes and detailed syllabus of 1st year B. Tech./B.Arch. was approved. In 38th & 39th SUGB meetings the status of implementation of new UG scheme and syllabus of 2nd year to final year B.Tech./B.Arch. programs was discussed and the departments were requested to organize a curriculum development workshops and submit the complete scheme and syllabus of their departments.

As per the 50th Senate meeting held on 31st May 2023 under Item No. 50-3.1, the Academic Section presented various issues that the departments were facing while preparing the new scheme as per the approved curricular structure as well as the observations of the Academic Section on various UG schemes submitted by the departments.

The Senate after detailed deliberations resolved all the issues and also assigned Dean, Academic to hold a meeting with HoDs and DUGC Conveners of the departments to resolve the matter related to courses under PLEAS/BS category. The meeting was held on 7th June 2023 and the minutes of the meeting are placed as **Annexure C** (**Pg... to ...**). All the departments were requested to prepare their complete UG scheme in light of the resolutions and submit the same to the Academic Section by 15th June 2023.

The new curriculum and detailed syllabus, after incorporating necessary revisions as per the decisions taken in 50th Senate meeting, was discussed in 41st meeting of SUGB held on 22nd June 2023. The SUGB approved and recommended the new curriculum structure and detailed syllabus of all UG programmes.

The Schemes are placed at Annexure-D (Pg... to).

And copy of detailed syllabus are available in the house for perusal of the Senate.

Item is placed for consideration and approval.

Item No. 51-3.2 To consider the implementation of Council of Architecture (CoA) regulations

The Council of Architecture (minimum standards of Architectural Education) Regulations, 2020 were published in the Gazette of India dated August 11, 2020. The Dept. of Architecture and Planning has proposed their new scheme as per these regulations. However, two provisions in the CoA regulations mention that the pass percentage shall not be less than 45% in each subject and that a student shall not be allowed to register for the Architectural Design course in a semester, if the corresponding course of previous semester has not been completed.

The matter was discussed in 40th meeting of the SUGB and "the SUGB recommended that the courses offered by the Department of Architecture and Planning the minimum passing marks shall be 45% and the courses offered by the other departments to the students of Architecture and Planning shall have minimum 35% passing marks. The SUGB also recommended that special Supplementary Examinations may be conducted at the end of odd semester, in addition to the regular supplementary examination conducted after even semester, for the courses having check-point or pre requisite requirements".

Item is placed for consideration and approval.

Item No. 51-4.0 Items for reporting

Item No. 51-4.1 To note the minutes of 57th and 58th meeting of SPGB.

The 57th and 58th meeting of Senate Postgraduate Board were held on 15th May 2023 and 22nd June 2023 respectively.

The minutes of the 57th and 58th SUGB meetings are placed at Annexure- E (Pg. ... to).

Item is placed for information.

Item No. 51-4.2 To note the minutes of 34th meeting of Academic Affairs Committee meeting held on 23rd May 2023.

The 34th meeting of Acadmic Affairs Committee (AAC) was held on 23rd May 2023. Minutes of the meetings are placed at **Annexure –F (Pg. ...** to ...).

Item is placed for information.

Item No. 51-4.3 To note the minutes of meeting of the Unfair Means Committee held on 23rd May 2023.

The meeting of the Unfair Means Committee was held on 23rd May 2023.

The minutes of the unfair means committee are placed at Annexure -G (Pg. ... to ...)

Item is placed for information.

Item No. 51-4.4 To note the minutes of 40th and 41st meeting of SUGB.

The 40th and 41st meetings of SUGB were held on 29th May 2023 and 22nd June 2023 respectively. The minutes of 40th and 41st SUGB meetings are placed at **Annexure-H** (**Pg. ... to**).

Item is placed for information.

Item No. 51-5.0 Any other items with permission of chair.

ANNEXURES



मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर

Malaviya National Institute of Technology Jaipur

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

MINUTES OF 50TH MEETING OF SENATE HELD ON 31ST MAY 2023

The 50th meeting of Senate was held on 31st May, 2023 from 11:00 AM onwards in Niti Sabhagar, Prabha Bhawan of the Institute. The attendance list is enclosed as Annexure-A.

At the outset, the Chairman Senate in his opening remarks, welcomed all the members attending the meeting. He congratulated the senators on the occasion of 50th Senate and thanked them for their positive contribution towards building a good teaching-learning ecosystem and guarding the quality of education imparted.

The agenda items were taken one by one, the resolutions of which are as follows:

Item No. 50.1.0	: To confirm the minutes of the 48th & 49th (Emergent) meeting of the Senate held on 10th February 2023 and 30th March, 2023.
	Since no comments were received, the Senate confirmed the minutes of 48th & 49th (Emergent) meeting of Senate as circulated.
Item No. 50.2.0	: To note the "Action Taken" on the decisions taken in the 48th & 49th (Emergent) meeting of the Senate.
	The Senate noted the action taken report of 48th & 49th (Emergent) meeting.
	Regarding Item No. 48-2.0 the Convener of the committee constituted to propose method of identifying seniority among Assistant Professors apprised the Senate that presently, there is no clear-cut set of rules to identify the seniority of the faculty, therefore, the committee was not able to prepare the seniority list of Assistant Professors. Senate suggested that the committee may submit its observation to Chairman Senate in this regard at the earliest even if it is not in a position of proposing a method for identifying seniority.
	Regarding Item No.48-3.3 the Senate resolved that for award of Board of Governors Gold Medal for academic toppers of PG programmes apart from CGPA and number of students, the student must be enrolled as a full time candidate.
	Regarding item 48-3.8 related to framing guidelines and policies for operations of Centers at the Institute, the Convener of the committee Prof. R.P. Yadav was requested to complete the assignment before next meeting of the Senate.
	Regarding item 48-6.2, Senate decided to continue with the exam cell. It was suggested that the exam work may be carried out separately, preferably through Associate Dean-Exams and separate team with defined duties, so that there is no overlap of responsibility with functioning of ADUG & ADPG. It was decided that course wise time table of exams would also be notified by the Exam Cell.
	Regarding Item No.49-1.1 Senate resolved that a committee of following members may be constituted to review the English-Hindi names of UG and PG programmes, the inclusion of the name of the department along with the PG specialization to be printed on degree certificates, registration number in all certificates for Digi locker requirement and any other change as found necessary: 1. Prof. M.P. Poonia 2. Prof. S.P. Chaurasia
	3. Prof. Lava Bhargava

Item No. 50-3-0 : Items for consideration Item No. 50-3.1 : To consider the Scheme and detailed syllabus of UG Program. Resolution No. Senate-50/2023/01: The Senate deliberated on all the issues that the departments have faced while preparing the revised UG schemes. The Senate also considered the observations of the Academic Section on various UG schemes. After detailed deliberations, the Senate resolved the following. 1. All the departments/centres of the Institute will prepare the curriculum of two

- 1. All the departments/centres of the Institute will prepare the curriculum of two courses that can be offered under PLEAS/BS category. Dean, Academic will hold a meeting of all the Heads and Conveners, DUGCs of the Departments to finalize the courses that would be offered to the UG students of different programs under PLEAS/BS category.
- 2. Minor project (offered in the VII semester) shall be considered under practical course and shall have L-T-P of 0-0-6. As there is no provision of waiver for core courses, the students opting for semester-long internship in the VII semester may submit a report of the work done during their internship or they can carry out an independent project against the minor project.
- 3. Students opting for internship in VIII Sem will complete their major project with one supervisor each at the Institute and at the organization offering internship. In this regard, the guidelines for internship, as decided by the Institute from time to time, shall be applicable.
- 4. All the departments are required to prepare their schemes within the framework approved by the Senate. The range of credits for different semester shall be 23-27 credits for I to IV semester, 19 to 23 credits for V and VI semesters and 16 to 20 credits for VII and VIII semesters. This range is applicable for the B.Tech. scheme only. Extra credits for minor specialization and honours will be as approved by the Senate in its 44th meeting.
- 5. Only elective courses shall be offered in the VII and VIII semesters (except project and training seminar in VII semester). Training seminar shall uniformly be of 2 credits and shall have a L-T-P of 0-0-4.
- 6. The courses on Basic Management shall preferably be kept before V semester, if possible, but not later than VI semester. The course will be evenly distributed between the odd and even semesters to all the students of various departments by the Management department.
- 7. The minimum number of students to run any honors or minor specialization course/program will be 7.
- 8. The Senate approved the revision of the formula given in the UG regulations of the Institute and approved to follow the credit calculations as per the AICTE formula. The calculation of credits of a course from L-T-P structure shall be done by considering the formula, credits=L+T+P/2.
- 9. No course shall have both lecture and practical components. All such courses shall be divided into two courses having separate lecture and practical components. Laboratory courses of all B.Tech. programs shall uniformly be of 1 credit.
- 10. Open electives shall be offered in two semesters i.e. 1 each in VII and VIII semester.
- 11. All departmental electives are to be referred as Program Electives (no Advance electives)
- 12. Any course having a particular syllabus and title can have only one teaching scheme (L-T-P). All courses shall have unique Course Code/Course Title/Teaching Scheme/Syllabus.

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		13. The course Basic Electrical and Electronics Engg. (3-0-0) offered in the I st year B.Tech. shall be split into two separate courses Basic Electrical Engineering (2-0-0) and Basic Electronics Engineering (2-0-0). Departments will develop course contents and get the same approved by competent authority.
		14. Technical communication (basic)' and 'Technical communication (advanced)' offered in the I st year B.Tech. shall be discontinued and shall be replaced by only one course on Technical Communication. Department will develop course contents and get the same approved by competent authority.
		15. Efforts should be made to offer a course on BIS Standardization as an audit course of one credit, in all the UG teaching schemes of different departments.
Item No. 50-3.2	:	To consider the guidelines & modalities for starting M.Tech./M.Plan. + Ph.D. Dual Degree (MPDD) Program.
		Resolution No. Senate-50/2023/02 : The Senate approved the recommendations of the committee. Provision will be developed for considering research work against the course work that is to be done in 3 rd and 4 th Semester of M.Tech. after registration in MPDD scheme.
Item No. 50-3.3	:	To consider new program elective courses to be offered to the students of M.Sc. (Mathematics) by the Department of Mathematics.
\$		Resolution No. Senate-50/2023/03: The Senate approved the following new programme elective courses to be offered to the students of M.Sc. (Mathematics) by the Department of Mathematics:
		i. Computational Statistics for Data Science (3 credits; L-T-P)ii. Introduction to Bayesian statistics (3 credits; L-T-P)
Item No. 50-3.4	:	To consider new open elective courses to be offered to UG students by the Department of Management Studies.
		Resolution No. Senate-50/2023/04 : The Senate approved the following new open elective courses to be offered to UG students by the Department of Management Studies:
=		 (i) Team Building & Leadership (3 credits; 3-0-0) (ii) Introduction to Financial Markets (3 credits; 3-0-0) (iii) Labour Laws for Engineers (3 credits; 3-0-0)
Item No. 50-3.5		To consider the case for change in name and gender in all the academic documents, issued by the Institute, of Ms. Riya Saini, an alumnus of the Institute.
		Resolution No. Senate-50/2023/05: Based upon the legal opinion, the Senate approved the case for change in name and gender in all the academic documents, issued by the Institute, of Ms. Riya Saini as Mr. Rahul Saini an alumnus of the Institute, following GoI norms.
Item No. 50-3.6	:	To consider the case of Inactive UG Students who are not registered/absent from more or less than 2 semesters.
		Resolution No. Senate-50/2023/06: Senate discussed the case of all Inactive UG students and resolved the Dean academic may explore the possibility of reinstating such students by contacting them through the HoDs and place the matter again before the next Senate.

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To ratify the list of additional students eligible for award of degree in PhD programmes in the 16th Annual Convocation in addition of earlier list approved. Item No. 50-4.2 To ratify the Seat matrix of UG programmes for the year 2023-24. Item was ratified.	Item No. 50-4.0	:	Item for Ratification
Item No. 50-4.2 : To ratify the Seat matrix of UG programmes for the year 2023-24. Item No. 50-4.3 : To ratify the Seat matrix of PG programmes for the year 2023-24. Item No. 50-5.0 : Item No. 50-5.1 : To note the minutes of 39th meeting of SUGB. Noted. Item No. 50-5.2 : To note the minutes of 56th meeting of SPGB. Noted. Item No. 50-5.3 : To note the minutes of 33th meeting of Academic Affairs Committee meeting held on 17th April, 2023. Noted. Item No. 50-5.4 : To note the minutes of meeting of the unfair means committee held on 16th March 2023. Noted. Item No. 50-6.0 : Supplementary agenda Item No. 50-6.1 : Item No. 50-6.1 To consider the proposal to start a 2-Year E-MBA (Executive MBA) program by Department of Management Studies (DMS) in association with Continuing and Digital Education Centre (CDEC), MNIT Jaipur. Resolution No. Senate-50/2023/07: Senate approved the proposal to start a 2-Year E-MBA (Executive MBA) program as proposed by the Department of Management Studies in association with Continuing and Digital Education Centre (CDEC), MNIT Jaipur with a total intake of 60. Item No. 50-6.2 : To consider the proposal to promote interdisciplinary and multi-disciplinary B. Tech. major projects. Resolution No. Senate-50/2023/08: Senate approved the proposal to promote interdisciplinary and multi-disciplinary B. Tech. major projects.	Item No. 50-4.1	:	
Item No. 50-4.3 Item was ratified.			Item was ratified.
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Item No. 50-6.4	•	To consider creating a provision for making minor change on the degree certificate issued by the Institute. Resolution No. Senate-50/2023/10: Senate approved the proposal to create a provision for making minor changes on the degree certificate issued by the Institute and authorized Chairman, Senate to approve the same.
Item No. 50-6.5	•	To consider the case of Mr. Shantanu Bajpai for semester withdrawal on medical grounds. Resolution No. Senate-50/2023/11: Senate allowed Mr. Shantanu Bajpai for 03 rd consecutive semester withdrawal on medical grounds.
Item No. 50-6.6	0 0	To consider issuing a clarification for provision related to early submission of PhD Thesis (before three years) under PG rule: RR 9.5.2. Resolution No. Senate-50/2023/12: Senate authorized Chairman Senate to constitute a committee for considering pending early submission requests as well as review and suggest revised norms for early submission of Ph.D. thesis (before three years). Chairman Senate was also authorized to approve the recommendations and revised norms submitted by the committee through Dean-AA.
Item No. 50-6.7	:	To consider Post-Doctoral fellowship (PDF) program at MNIT Jaipur. Resolution No. Senate-50/2023/13: Senate discussed and decided to explore the financial implications for Post-Doctoral fellowship (PDF) program at MNIT Jaipur. It was decided to check with the Ministry (MoE) for financial provisions in this regard.

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

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Registrar & Secretary

List of Senate members who attended online/offline 50th Senate meeting:

S. No.	Name
1.	Prof. N. P. Padhy
2.	Prof. Shuchi Srivastava
3.	Prof. A. K. Vyas
4.	Prof. A. P. S. Rathore
5.	Prof. Ajay Singh Jethoo
6.	Prof. Dilip Sharma
7.	Prof. G. D. Agarwal
8.	Prof. G. S. Dangayach
9.	Prof. Ghanshyam Singh
10.	Prof. Girdhari Singh
11.	Prof. Gunwant Sharma
12.	Prof. Harpal Tiwari
13.	Prof. Himanshu Chaudhary
14.	Prof. Jyoti Joshi
15.	Prof. Jyotirmay Mathur
16.	Prof. K. K. Sharma
17.	Prof. Kailash Singh
18.	Prof. Lava Bhargava
19.	Prof. M. L. Mittal
20.	Prof. M. M. Sharma
21.	
22.	Prof. Mahender Choudhary Prof. Mahesh Kumar Jat
23,	Prof. M. P. Poonia
24.	Prof. Manju Singh
25.	Prof. Manoj Fozdar
26.	Prof. Nupur Tandon
27.	Prof. R. P. Yadav
28.	Prof. Ragini Gupta
29.	Prof. Raj Kumar Vyas
30.	Prof. Rajeev Shringi
31.	Prof. Rajendra Kumar Goyal
32.	Prof. Rajesh Kumar
33.	Prof. Rajive Tiwari
34.	Prof. Rakesh Jain
35.	Prof. Ravindra Nagar
36.	Prof. S. D. Bharti
37.	Prof. S. P. Chaurasia
38.	Prof. Sanjay Mathur
39.	Prof. Sudhir Kumar
40.	Prof. Suja George
41.	Prof. Sushant Kumar Jana
42.	Prof. Tarush Chandra
43.	Prof. Upendra Pandel
44.	Prof. Urmila Brighu
45.	Prof. Vibhuti Singh Shekhawat
46.	Prof. Vijay Janyani
47.	Prof. Vineet Sahula
48.	Prof. Y.P. Mathur
49.	Dr. Amartya Chowdhury
50.	Dr. Bhagwati Sharma
51.	Dr. Dinesh Gopalani
52.	Dr. Dipti Sharma
34.	Dr. Manish Vashishtha

54.	Dr. Satish Pipralia	
55.	Dr. Deepak Verma	
56.	Dr. Srinivasa Rao Nelamarri	
57.	Dr. Vatsala Mathur	
58.	Dr. Sumit Khandelwal, AD (UG)	

The list of members who could not attend the 50thSenate meeting:

S. No.	Name
1.	Prof. Ashok Kumar Pradhan
2.	Prof. Vipul Rastogi
3.	Prof. A. B. Gupta
4.	Prof. B. L. Swami
5.	Prof. D. Boolchandani
6.	Prof. K. R. Niazi
7.	Prof. Kanupriya Sachdev
8.	Prof. M. K. Shrimali
9.	Prof. Nirutpam Rohtagi
10.	Prof. R. C. Gupta
11.	Prof. Rohit Goyal
12.	Prof. S. K. Tiwari
13.	Prof. T. C. Gupta

Malaviya National Institute of Technology Jaipur

A committee was formed vide order no 1892 dated 06/10/2022 and subsequently revised vide order no 2380 dated 28/02/2023 to prepare a method of identifying seniority among assistant professor at the institute. This committee was formed on the question of nomination of senior most Assistant professor as senate nominee to BoG of MNIT Jaipur, which was questioned in the senate.

The meeting of revised committee was held twice and it was requested to the Registrar office to provide the seniority list of faculty members. If the seniority list of Assistant Professors doesn't exist, the registrar office should provide rules governing the seniority of officials/faculty notified by MoE. DoPT and Government of India as applicable to MNIT Jaipur (copy of mail communication attached).

In response to these mails the DR Establishment submitted that seniority based on selection committee panel seniority is available for direct recruitment (only at department level). There are no rules and there exist no seniority list of Assistant Professors exist at the Institute level.

The committee is of opinion that as on date there is no seniority lists of Assistant Professors exist at the Institute level & there are no rules / Mechanism for identifying the same.

(Lava Bhargava)

(Registrar)

(Mahender Choudhary)

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<u>Dean Academics</u>

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26/6/23

Dean Academic

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY Office of Dean Academics

Draft Minutes of Meeting with Head of the Departments and DUGC conveners

The curricular structure of UG programmes was placed for consideration of the Senate of MNIT Jaipur in its 44th meeting. The complete schemes and syllabus of all the programs were placed for the consideration of Senate in its 50th meeting. The departments offering UG programs submitted that they are facing difficulty in finalizing the inter-disciplinary programs under PLEAS/BS category. The Senate resolved that Dean, Academic will hold a meeting of all the Heads and Conveners, DUGCs of the Departments to finalize the courses that would be offered to the UG students of different programs under PLEAS/BS category.

As per the directions from Senate, the meeting was held on June 07, 2023 at 03:30 PM in the NKN-2, Prabha Bhawan, MNIT Jaipur. The list of officials that attended the meeting is given at the end of this document. Following are the resolutions/decision taken in the meeting:

 All the departments/centers provided the details of courses that could be offered under PLEAS/BS category. The concerned departments made the following choices against the courses/credits to be included in their respective UG schemes, under the PLEAS/BS category.

The second secon	Credits	Details of the courses to	be include	d in respective schemes
Name of the Department	proposed under PLEAS/BS category	Title of the courses	Course Credits	To be offered by
2) 13 MANAGA NAMAN AND AND AND AND AND AND AND AND AND A	6 (scheme	Numerical Methods	3	Dept. of Mathematics
Danastmant of	to be modified	Building Planning	2	Dept. of Architecture
Department of Civil Engg	that is currently showing 10 credits)	Building Planning and services	1	Dept. of Architecture
dian.		Energy Storage	3	Centre for Energy and Environment
Department of Chemical Engg	6	Fundamentals of materials science and engg	3	Material Research Centre

Department of Computer Science and Engg.	3	Smart Grid	3	Dept. of Electrical Engg.
Department of		Advanced Engineering Mathematics	4	Dept. of Mathematics
Electrical Engg	8	Principals of communications	4	Dept. of ECE
Department of Electronics and Communication Engg.	4	Control systems engineering	4	Dept. of Electrical Engg.
Department of Mechanical Engg	4	Control systems engineering	4	Dept. of Electrical Engg.
Department of Metallurgical		CAD/CAM	2	Dept. of Mechanical Engg
and Materials Engg.	.5	CAD/CAE lab		Dept. of Mechanical Engg

2. It was mentioned that few more courses are still available that can be offered under the PLEAS/BS category for different UG schemes. The departments can choose the courses given in the table below and coordinate with the concerned department to seek their approval for the same.

Name of the Department	Courses available to be offered under PLEAS/BS category
Dept. of Architecture	Construction management
	Mechanical Design of Process Equipments
Dept. of Chemical Engg.	Waste to energy technologies
1 - 11 - 12 - 12 - 12 - 12 - 12 - 12	Hydrogen and fuel cell technologies
25 (6)	Machine learning
Dept. of Computer Science	Cyber Security
and Engg.	Problem solving using C
Dept. of Electrical Engg.	Network theory (4 credits, 3-1-0)
Dept. of Electronics and	Embedded systems
Communication Engg.	Satellite and radar engineering
The Control of the Co	Robotics engineering
Dept. of Mechanical Engg.	Industry 4.0
Dept. of Metallurgical and	Introduction to engg materials
Materials Engg.	Advanced microscopic techniques
CEE	Photovoltaic Systems
MRC	Characterization techniques for materials
	Quantum mechanics
Physics	Electromagnetic theory

- The Department of Management Studies shared two options for the Basic Management course (names of courses are yet to be finalized) that can be chosen by the departments for offering to their respective UG students.
- 4. It was decided that the Department of Civil Engineering, Department of Electrical Engineering and Department of Mechanical Engineering will offer the course on Management in their ODD semester while the Department of Computer Science and Engineering, Department of Chemical Engineering, Department of Electronics and Communication Engineering and Department of Metallurgical and Materials Engineering will keep this course in their EVEN semester.

The meeting concluded with thanks to the chair.

(Sumit Khandelwal) ADUG

Mardelul -

Following officials attend the meeting:

· Dr. Sumit Khandelwal

Dean, Academics · Prof. Jyotirmay Mathur Head, Department of Metalurgical and Materials Engineering · Prof. Upender Pandel · Prof. H.P. Tiwari Head, Department of Electrical Engineering Prof. Kanupriya Sachdev Head, Department of Physics Head, Department of Electronics and Comm. Engineering · Prof. Lava Bhargava · Prof. M. Choudhary Head, Department of Civil Engineering Head, Department of Mechanical Engineering · Prof. H. Choudhary · Dr. Vatsala Mathur Head. Department of Mathematics • Dr. Manish Vashishtha Head, Department of Chemical Engineering Head, Department of Computer Science and Engineering · Dr. Dinesh Goplani Head, Department of Architecture • Dr. Satish Pipralia • Dr. Dipti Sharma Head, Department of HSS Head, Center for Energy and Environment * Dr. Amartaya Choudhary · Dr. Deepak Verma Head, Department of Management Studies # Dr. Anil Swarnkar Convener, DUGC, Department of Electrical Engineering · Dr. Santosh Choudhary Convener, DUGC, Department of Mathematics Convener, DUGC, Department of Mechanical Engineering Dr. Harlal Mali Convener, DUGC, Department of Chemical Engineering • Dr. Dipaloy Dutta • Dr. Ramesh B. Battulla Convener, DUGC, Department of CSE Dr. Abbas Raja N. Convener, DUGC, Department of Chemistry Dr. Sreekumar V. M. Convener, DUGC, Department of Meta. and Mat. Engineering Dr. Nisha Verma Convener, DUGC, Materials Research Centre Convener, DUGC, Centre for Energy and Environment Dr. Parul Mathuria Convener, DUGC, Department of HSS • Dr. Nidhi Sharma Representing DUGC Convener, Department of Civil. Engg. Dr. Sanyam Dangayach • Dr. R.K. Madilla Representing DUGC Convener, Department of ECE Dr Rajnish Dhiman Representing DUGC Convener, Department of Physics

Associate Dean (UG)

Annexure-D

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History of Architecture - I		Introduction to Architecture and Basic Design	_	Studio	Program Core	Dept. of Architecture	9	eu	0	0	4
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ture-III 3 Theory Program Core Dept. of Architecture 4 2 2 0 0 tures-III (Proctical) 3 Theory PLEAS/BS Dept. of Civil Engy 1 0 0 2 0 0 tures-III (Proctical) 3 Practical Program Core Dept. of Architecture 2 2 0 0 2 0 ion & Malerials-III 3 Studio Program Core Dept. of Architecture 2 0 0 4 4 in-II 4 Theory Program Core Dept. of Architecture 4 2 2 0 0 in-III 4 Theory Program Core Dept. of Architecture 4 2 2 0 0 in-III 4 Theory Program Core Dept. of Architecture 4 2 2 0 0 in-Station & Writing 4 Shudio Program Core Dept. of Architecture 3 2 2		Architectural Design - 1	2	Studio	Program Core	Dept. of Architecture	7		0	0	9
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4 Theory Program Core Dept. of Architecture 4 2 2 0 c Writing 4 Theory PLEAS/BS Dept. of Fixel Engg. 3 2 1 0 c Writing 4 Theory PLEAS/BS Dept. of Fixel Engg. 3 1 2 0 sterials - IV 4 Studio Program Core Dept. of Architecture 7 1 0 0 rectural 5 Theory Program Core Dept. of Architecture 3 2 1 0 cations 5 Theory Program Core Dept. of Architecture 3 2 1 0 cations 5 Theory Program Core Dept. of Architecture 3 2 0 0 cations 5 Studio Program Core Dept. of Architecture 5 2 0 0		History of Architecture - 111	ঘ	Theory	Program Core	Dept. of Architecture	4	2	2	0	0
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Ig 4 Theory PLEAS/BS Dept. of Humanities and Sweal Sciences 3 1 2 0 -1V 4 Studio Program Core Dept. of Architecture 7 1 0 0 5 Theory Program Core Dept. of Architecture 3 2 1 0 5 Theory Program Core Dept. of Architecture 3 2 1 0 5 Theory Program Core Dept. of Architecture 3 1 2 0 6 Studio Program Core Dept. of Architecture 3 1 2 0 7 Studio Program Core Dept. of Architecture 3 1 2 0		Architectural Structures - IV	V	Theory	PLEAS/BS	Dept. of Civil Engo.	m	Cit	-	0	
- IV 4 Studio Program Core Dept. of Architecture 5 2 0 0 5 Theory Program Core Dept. of Architecture 3 2 1 0 5 Theory Program Core Dept. of Architecture 3 1 2 0 5 Theory Program Core Dept. of Architecture 3 1 2 0 6 S Studio Program Core Dept. of Architecture 5 2 0 0		Technical Communication & Writing	4	Theory	PL.EAS/BS	Dept. of Humanities and Social Sciences	m		2	0	0
4 Studio Program Core Dept. of Architecture 7 1 0 0 5 Theory Program Core Dept. of Architecture 4 2 1 0 5 Theory Program Core Dept. of Architecture 3 1 2 0 5 Theory Program Core Dept. of Architecture 3 1 2 0 V 5 Studio Program Core Dept. of Architecture 5 2 0 0		Building Construction & Materials - IV		Studio	Program Core	Dept. of Architecture	so.	2	0	0	m
5 Theory Program Core Dept. of Architecture 3 2 1 0 5 Theory Program Core Dept. of Architecture 3 1 2 0 V 5 Studio Program Core Dept. of Architecture 5 2 0		Architectural Design - III	4	Studio	Program Core	Dept. of Architecture	~	,	۵	0	9
5 Theory Program Core Dept of Architecture 4 2 2 0 5 Theory Program Core Dept of Architecture 3 1 2 0 .V 5 Studio Program Core Dept of Architecture 5 2 0 0		Theory of Design and Architectural Appreciation	55	Theary	Program Core	Dept. of Architecture	m	C1	-	0	0
5 Theory Program Core Dept. of Architecture 3 1 2 0 V 5 Studio Program Core Dept. of Architecture 5 2 0 0		Building Services - II	7.0	Theory	Program Core	Dept. of Architecture	ব	M	7	0	0
V 5 Studio Program Core Dept. of Architecture 5 2 0 0		Quantity Survey and Specifications	S	Theory	Program Core	Dept. of Architecture	m		7	0	0
		Building Construction & Materials - V	15.	Studio	Program Corc	Dept. of Architecture	S	C1	0	0	~

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Course Code	Course Title	Semester	Course	Course category	To be taught by	Credits	Lecture	Tutorial	Credits Lecture Tutorial Practical Studio	Studio
	Architectural Design - IV	S	Studio	Program Core	Dept. of Architecture	7		0	0	9
	Program Elective - 1	va	Тьеогу	Program Elective	Dent. of Architecture	m	-	~1	0	0
	Building Science - II	9	Theory	Program Core	Dept. of Architecture	4	2	7	0	0
1 1	Site Planning & Landscape	9	Studio	Program Core	Dept. of Architecture	4	-	0	0	3
	Building Construction & Materials - VI	9	Studio	Program Core	Dept. of Architecture	Ŋ	2	0	0	m
11	Architectural Design - V	9	Studio	Program Core	Dept. of Architecture	7		0	0	9
1	Program Elective - II	9	Theory	Program Elective	Dept. of Architecture	m		2	0	0
	Open Elective - I	9	Theory	Open Elective		3	57	0	0	0
	Introduction to Planning	7	Theory	Program Core	Dept, of Architecture	4	7	7	0	0
	Building Services - III	7	Theory	Program Core	Dept. of Architecture	4	2	2	0	0
	Working Drawings	7	Studio	Program Core	Dept. of Architecture	4		0	0	'n
1	Architectural Design - VI	7	Studio	Program Core	Dept. of Architecture	7	-	0	0	9
	Program Elective - III	7	Theory	Program Elective	Dept. of Architecture	8	Ţ	2	0	0
1	Program(Flexible) Elective - III-A	7	Theory	Program Elective	Dept. of Architecture	3	1	7	0	0
	Practical Training	00	Traming	Pro ram Core		12	0	0	0	0
1	Thesis Preparatory Seminar	6	Studio	Program Core	Dept. of Architecture	7	_	0	0	9
	Architectural Design - VII	6	Studio	Program Core	Dept. of Architecture	7	_	0	0	9
- 11	Construction Management	6	Theory	Program Core	Dept. of Architecture	3	7	-	0	0
	Program Elective - IV	6	Theory	Program Elective	Dent, of Architecture	e		2	0	0
	Program (Flexible) Elective - IV-A	ō.	Theory	Program Elective	Dept. of Architecture	3		2	0	0
	Thesis Project	10	Studio	Program Core	Dept. of Architecture	11		0	0	01
	Professional Practice	10	Theory	Program Core	Dept. of Architecture	3	2		0	0
11	Open Elective - II	10	Theory	Open Elective		3	3	0	0	0
	Program Elective - V	10	Theory	Program Elective	Dept. of Architecture	3	_	2	0	0
	Program (Flexible) Elective - V-A	10	Theory	Program Elective	Dept. of Architecture	es	_	2	0	0

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Scheme for B. Tech. in Chemical Engineering

I Semester:

S. No.	Course Code	Course Title	Category	Type	Credit	L	Т	P
1.		Institute Core			18	9		-
2.	CHT101	Introduction to Chemical Engineering	PC	Theory	3	3	0	0
3.	CHT102	Chemical Engineering Thermodynamics-I	PC	Theory	4	3	1	0
		Total			25			

II Semester:

S. No.	Course Code	Course Title	Category	Type	Credit	L	Т	P
1.	Francisco Process - Sandill Stadios - Sandillo Stad	Institute Core		and produced in the second sec	18	-	-	-
2.	CHT103	Chemical Process Calculations	PC	Theory	4	3	1	0
3.	CHT104	Process Instrumentation	PC	Theory	3	3	0	0
		Total		,	25			

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III Semester:

S. No.	Course Code	Course Title	Category	Type	Credit		T	P
Parameter (M.)		Computer Aided Numerical Methods	PC	Theory	4	2	2	10
2.		Fluid Mechanics for Chemical Engineers	PC	Theory	4	3	1	0
3.	N. 1811 Inhibitional II. 100 paymentages regu	Mechanical Operations	PC	Theory	4	3	1	0
4.		Chemical Engineering Thermodynamics-II	PC	Theory	me international contract of the contract of t	3	1	0
5.		Conventional & Alternate Energy Resources	PC	Theory	**	3	0	0
6.		Fundamentals of Materials Science and Engineering [†]	PLEAS	Theory	3	3	0	0
7.	- Complete point of the Complete Section of the Comple	Fluid Mechanics Lab	PC,	Lab	1	()	0	2
8.		Mechanical Operations Lab	P('	Lab		0	0	2
The second secon	Chemical Engineering PC Theory Thermodynamics-II Conventional & Alternate PC Theory Energy Resources Fundamentals of PL/EAS Theory Materials Science and Engineering* Fluid Mechanics Lab PC Lab Mechanical Operations PC Lab			- Out of the contract of the c	24	17	5	4

[#]To be taught by Material Research Centre

IV Semester:

S. No.	Course Code	Course Title	Category	Type	Credit	L	Т	P
1.	The second of the second secon	Chemical Reaction Engineering-I)·(Theory	4	3	1	0
2.	NAME AND ADDRESS OF THE PROPERTY ADDRESS OF TH	Heat Transfer	PC1	Theory	4	3	11	10
3.	· The second of displaying definite declared as an engage of	Mass Transfer-I	13(Theory	4	3	1	0
1.		Industrial Pollution Abatement	PC	Theory	et ret mangiorestrium sont, en version en e	3	1	0
5.		Chemical Technology	lyC,	Theory	4	3	1	0
6.	The court is the comment of the comment	Energy Storage*	PL/EAS	Theory	3	3	0	0
7.		Chemical Reaction Engineering Lab	PC	Lab	1	0	0	2
8.	The last benefit against the company of the company	Heat Transfer Lab	PC.	Lab	1	()	0	7
9.		Industrial Pollution Abatement Lab	PC	Lab	1	0	0	2
the training of the second contraction of th	commence and an experience and appropriate and	Total	udiane and a second of a second and a second a second and	L	26	18	5	6

*To be taught by Centre for Energy and Environment

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V Semester:

S. No.	Course Code	Course Title	Category	Туре	Credit	L	-1	P
1.	7 ,200	Mass Transfer-II	PC	Theory	4	3	1	0
2.	The second secon	AI & MI. in Chemical Engineering	PC.	Theory	4	3	1	0
3.		Process Dynamics and Control	PC	Theory	4	3	- Inneren	0
4.	THE RESERVE SEASON SEED TO SEE THE SEASON SEED SEED SEASON SEASON SEED SEASON S	Process Safety and Hazards Management	PC	Theory		3	1	0
5.	n dig vi din di si mininti din mejilim mendejuaran muselija dinamana agan cama	Chemical Reaction Engineering-II	PC	Theory	4	3		0
6.		Process Instrumentation and Control Lab	PC	Lab	Section of the sectio	0	0	2
7.		Mass Transfer Lab	PC	Lab	1	0	0	2
	Al & MI, in Chemical PC Theory Engineering B. Process Dynamics and PC Theory Control I. Process Safety and Hazards PC Theory Management Chemical Reaction PC Theory Engineering-II PC Theory Description of PC Lab Control Lab			22	15	5	4	

VI Semester:

S. No.	Course Code	Course Title	Category	Type	Credit	L	Т	P
1,		Plant Design & Process Economics	PC	Theory	4	3	- Panis	()
2.		Transport Phenomena	PC	Theory	4	3	11	()
3.		Petroleum Refining and Petrochemicals	PC	Theory	3	3	0	0
4.		Process Equipment Design	PC	Theory	4	3	1	()
5.		Management Principles for Engineers	IC .	Theory	The second secon	3	0	0
6.	A STATE OF THE STA	Petroleum Lab	PC	Lab	1	0	0	2
7.	7.000	Process Equipment Design Lab	PC	Lab	1	0	0	2
		Total	er til ett en er er en en er i i i i en manuter Austrick i i ben her en etter finanskammen i er		20	15	3	4

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VII Semester:

S. No.	Course Code	Course Title	Catego	ory	Туре	Credit	L	Т	Р
1.		Training Seminar	PC	ille heide (j. fel.) – Mehadadadan jelan gegingig	Theory	2	0	0	4
2.	the deleter was to be seen to	Minor Project	Proje	et	Theory	3	0	0	6
4.		Program Elective-I	PE	and with the	Theory	3	3	0	0
5.	_	Program Elective-II	PE	all a leaf and a discountries to , an even a , page	Theory	4	3	1	0
		Program Elective-III	PE	and t	Theory	3	3	0	0
6.		Open Elective-I		OE		3	3	0	0
	The same and	Total		t de serve elemente de serdene transportung	and the same of th	18	12	1	10
	Prog	gram Elective-I	skalle objects		Program I	Elective-II			-
	Operation	Research		CFD i	n Chemical	Engineerii	ng		**********
	Solid & Ha	azard Waste Management		Mecha	mical Desig	n of Proce	ss Eq	uipn	nent
	Nano-mate	erials & Characterization		Advan	ced Process	Control			-
-	P	rogram Elective-III			s U Adhanas				-
1	Polymer S	cience and Technology	of an district of the control of the	a in the later had in management on the		rii dhadada d	-		
Martin Anthrophys	Process Int	tegration		The Section Applied and Spanning	ernamental and	7.74			
	Optimizati	on of Chemical Processes		philosophical part was re-		ALL LAND AND STORY OF THE PROPERTY OF THE PROP	*		

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VIII Semester:

Course	C	Cate	Tr.	C - 114		nn.	Р
Code	Course Title	gory	Type	Crean	L	1	P
2	Major Project	Proj	Practical/	6	0	0	6
		ect	Theory		Carlon Ca		
	OR		Web and the second of the seco	OR		0 0 0 0 0	
	In Lieu of the Major Project any two courses offered in the Program Electives – IV, V OR VI to be opted	managed of additional control of the		6	6		0
	Program Elective-IV	PE	Theory	3	3	0	0
	Program Elective-V	PE	Theory	3	3	0	0
	Program Elective-VI	PE	Theory	3	3	0	0
	Open Elective - II	OE	Theory	3	3	0	0
	Total		- Vegil mandet au	18	12/	0	12
					18		0
Pı	rogram Elective-IV		Progra	m Electiv	/e-V		
Hydroger	n and Fuel Cell Technology	T	Data Science	e for Cher	nical I	Engir	neers
Waste to	Energy Technologies		Process Pipi	ng and De	esign		
Advance	d Separation Processes		Process Mod	deling and	Simu	latio	n
Pı	rogram Elective-VI			And the same of th			
Bio-Proc	ess Engineering						
Advance	d Mass Transfer						
Polymer	Process Modeling						
	Pode Pydroge Waste to Advance Pydroge Advance	Code Course Title Major Project OR In Lieu of the Major Project any two courses offered in the Program Electives – IV, V OR VI to be opted Program Elective-IV Program Elective-V Program Elective-VI Open Elective - II	Code Course Title Major Project Proj ect OR In Lieu of the Major Project any two courses offered in the Program Electives – IV, V OR VI to be opted Program Elective-IV PE Program Elective-VI Open Elective - II OE Total Program Elective-IV Hydrogen and Fuel Cell Technology Waste to Energy Technologies Advanced Separation Processes Program Elective-VI Bio-Process Engineering Advanced Mass Transfer	Code Course Title Major Project Major Project Proj Practical/ ect Theory OR In Lieu of the Major Project any two courses offered in the Program Electives – IV, V OR VI to be opted Program Elective-IV Program Elective-VI Program Elective-VI Open Elective - II Open Elective - II Program Elective-IV Bio-Process Engineering Advanced Mass Transfer	Code Code Course Title Major Project Major Project Proj Practical/ ect Theory OR In Lieu of the Major Project any two courses offered in the Program Electives – IV, V OR VI to be opted Program Elective-IV Program Elective-VI Program Elective-VI Open Elective - II OE Theory Program Elective-IV Program Elective-IV Program Elective-IV Program Elective-IV Program Elective-IV Process Piping and Delective-VI Bio-Process Engineering Advanced Mass Transfer	Code Course Title Major Project OR In Lieu of the Major Project any two courses offered in the Program Electives – IV, V OR VI to be opted Program Elective-VI Program Elective-VI Hydrogen and Fuel Cell Technology Major Project Program Elective-VI Bio-Process Engineering Advanced Mass Transfer Program Elective-VI Program Elective-VI Bio-Process Engineering Advanced Mass Transfer	Code

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Scheme for B. Tech. Chemical Engineering with Honors

S. No.	Course Code	Course Title	Semester	Туре	Credit	No.	Т	F
1.	10 de marija projektiva (np.)	Heterogeneous Catalysis	erogeneous Catalysis V T					0
2.	an ang mang mga ga g	Soft Matter	V	Theory	3	3	0	0
3.		Process Intensification	VI	Theory	3	3	0	0
4.		Multiphase Reactors	VI	Theory	3	3	0	0
5.		Molecular Modeling of Chemical Systems	VII	Theory	3	3	0	0
6.		Process Industry 4.0	VIII	Theory	3	3	0	0
		Total	The photo of the control of the photo designation of the control o		18	18	0	0

Scheme for B. Tech. with Minor in Industrial Safety

S. No.	Course Code	Course Title	Semester	Туре	Credit	L	Т	
1	The Control of the Co	Process Safety and Risk Management	V	Theory	3	3	0	
2.		Industrial Regulations and Occupational Health Management	V	Theory	3	3	0	(
3.	desire the head of page 20 section of the section o	Industrial Pollution Control	VI	Theory	3	3	0	0
4.	- Marketine dan samma sample Lapaka sa ratir o unitable companya kal	Process Engineering & Plant Design	VI	Theory	3	3	0	0
5.	and the last of th	Fire Engineering and Explosion Control	VII	Theory	3	3	0	0
6.	To be a substitution of the Superior of State of	Disaster Management	VIII	Theory	3	3	0	0
venezia naturali aryaya		Total	the state of the s	of 1 Manual year of animal	18	18	0	0

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PROPOSED SCHEME FOR B.TECH PROGRAM IN CIVIL ENGINEERING AS PER NEP2020

and the

				SEMI	
	22CEP104	22CET103 Surveying		CORR	Coppe
	22CEP104 Surveying Lab	Surveying	Basic Management	INSTITUTE CORE COURSES (18 CREDITS)	Course Name
25	-3	ယ	ω	Credits	Condition
	002	300	300	7	- 4

	22CEP 104	22CET103 Surveying		Code
	22CEP104 Surveying Lab	Surveying	Basic Management	Course Name INSTITUTE CORE COURSES (18 CREDITS)
25		ယ	ω.	Credits LTP
	002	300	300	LTP

Codo		
Course Mouse		TOTAL
)		27
1		

			,-	_		SE	M I	V	_				_
		PLIEAS											Code
TOTAL	Building Drawing - II	Building Planning and Services	Highway Materials Lab	Transportation Engineering I	Public Health Engineering Lab	Environmental Engineering I	Soil Mechanics Lab	Geotechnical Engineering I	Hydraulics Lab	Hydraulic Engineering	RCC Design Drawing, and Detailing	Design of RCC Structures	Course Name
25	-mb	2	_	ن هٔ '		ω.	8	4		4.	, side	S	Credits
17212	002	200	002	300	002	300	002	310	002	310	002	300	LTP

SEM III

Code

Course Name

Credits LTP

Construction Materials Construction Materials Lab

Fluid Mechanics

4

Advanced Surveying & GNSS Lab
PL/EAS Numerical Methods and Optimization

TOTAL

15 2 10

200

002 200 002 200

310 002 310 002 300

Advanced Surveying

Building Drawing - I Introduction to Satellite Based Positioning

Building Technology Structural Analysis Lab Structural Analysis Fluid Mechanics Lab

				SEM II
	22CEP108	22CET107	22CET106	COne
TOTAL	22CEP108 Geology Lab	22CET107 Engineering Geology	22CET106 Mechanics of Solids	INSTITUTE CORE COURSES (19 CREDITS)
27	1	ω	4	Credits LTP
	002	300	310	רדף

PROPOSED SCHEME FOR B.TECH PROGRAM IN CIVIL ENGINEERING AS PER NEP2020

			SI	EM	VII	_				Total Control			SE	M	/	1		_		
										100										Code
MINOR / HONOURS COURSE 5		Minor Project	Open Elective 1	Program Elective 3 (CEPE03)	Program Elective 2 (CEPE02)	Program Elective 1 (CEPE01)	Training Seminar	Course Name	MINOR / HONOURS COURSE 2	MINOR / HONOURS COURSE 1	TOTAL	Hydrology	Geotechnical Engineering Lab	Geotechnical Engineering II	Environmental Engineering Lab	Environmental Engineering II	Structural Design & Drawing	Design of Steel Structures	Design of RCC Systems	Course Name
ω	17	Ç.S	33	w	డు	w	2	Credits	ယ	w	22	4		4		3		4	4	Credits
300	12 0 10	006	300	300	300	300	004	LTP	300	300	1546	310	002	310	002	300	002	310	310	LIP

						SE	M V	/1					
THE SECOND				Humanities									Code
MINOR / HONOURS COURSE 4	MINOR / HONOURS COURSE 3	TOTAL	Soft Skils Lab	Soft Skills and Personality Development	Civil Engineering Practical Applications	Construction Management Lab	Construction Project Management	Estimation and Costing	Water Resources Engineering Lab	Water Resources Engineering	Environmental System Design	Transportation Engineering II	Course Name
í.	3	20	1	2		>	3	4	1	w		ω	Credits
300	300	13 4 8	0.02	200	002	002	300	310	002	300	020	210	LTP

	,	_	S	EM	VIII	_	_	
								Code
MINOR / HONOURS COURSE 6	TOTAL		1 Major Project OR 3 EL		Open Elective 2	Program Elective 5 (CEPE05)	Program Elective 4 (CEPE04)	Course Name
3	18		9		3	w	w	Credits
300	9018	(900)	q	0018	300	300	300	LTP

TOTAL CREDITS FOR B. TECH IN CIVIL ENGINEERING:

THE HONOURS PROGRAM IN CIVIL ENGINEERING OFFERS TWO (2) TRACKS:

TRACK 1	PROFESSIONAL TRACK*	Credits	LTP
Course 1	Advanced Foundation Design	ω	300
Course 2	Design of Hydraulic Structures	ယ	300
Course 3	Ground Improvement Techniques	w	300
Course 4	Air & Noise Pollution	ω	300
Course 5	Design of Masonry Structures	ω	210
Course 6	Solid Waste Management	ω	300
Course 7	Dynamics of Structures	ω	210
Course 8	Railway and Airport Engineering	ω	300

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studen
50
preparing
for GA
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UPSC,
and
other
competitive
exams

Courses Offered by Civil Engineering to Institute / Other Departments

Course Name

Credits LTPS

Offered to

Core

Environmental Science

Engg Dwg & Sketching Lab Engg Dwg & Sketching

Environmental Science

N

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Arch. & Plan. (PL-EAS)

Architectural Structures I

Surveying Lab

Surveying

Architectural Structures IV

Architectural Structures III Architectural Structures II

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ω	Sustainable Building Project Delivery	Course 9
ယ	Concrete Technology	Course 8
C43	Industrial Waste Treatment	Course 7
_د ن	Design of Steel Structural Systems	Course 6
ω	Structural Analysis - II	Course 5
ω	Finite Element Method	Course 4
ယ	Construction Information Modeling and Automation	Course 3
ယ	Introduction of Spatial Data Collection and Analysis	Course 2
ω	Urban Water Conveyance System Design	Course 1
Credits	INDUSTRIAL TRACK**	TRACK 2

Tentative UG(CSE) Scheme

Department of Computer Science and Engineering

S. No	Code	Subject	L-T-P	Credit	Туре
V sile		Programming with Python	2-0-0	2	IC
		Programming lab	0-0-2	1	IC
		Other Institute Core Subjects		15	IC
	CST1xx	Problem Solving using C	2-0-0	2	DC
	CST1xx	Discrete Mathematics	3-0-0	3	DC
	CSP1xx	Problem Solving Using C Lab	0-0-2	1	DC
				24	

		Second Semester			
S. No	Code	Subject	L-T-P	Credit	Туре
		Programming with Python	2-0-0	2	IC
		Programming with Python lab	0-0-2	1	IC
		Other Institute Core Subjects		15	IC
	CST1xx	Data Structures	3-0-0	3	DC
	CST1xx	Logic System Design	2-0-0	2	DC
	CSP1xx	Data Structures Lab	0-0-2	1	DC
	CSP1xx	Logic System Design Lab	0-0-2	1	DC
				25	

		Third Semester			
S. No	Code	Subject	L-T-P	Credits	Type
	CST2xx	Digital Circuits and Microprocessors	3-0-0	3	DC
	CST2xx	Design and Analysis of Algorithms	3-0-0	3	DC
	CST2xx	Object Oriented Analysis and Design	3-0-0	3	DC
	CST2xx	Data Communications	3-0-0	3	DC
	CST2xx	Foundation of Learning	3-0-0	3	DC

				24	
	CST2xx	Technical Writing	1-0-2	2	DC
_		Object Oriented Analysis and Design Lab	0-0-2	1	DC
-		Design and Analysis of Algorithms Lab	0-0-4	2	DC
		Digital Circuits and Microprocessors Lab	0-0-2	1	DC
		Social Sciences and Professional Ethics	2-1-0	3	BS

		Fourth Semester			Tay.
S. No	Code	Subject	L-T-P	Credits	Туре
	CST2xx	Computer Organization and Architecture	3-0-0	3	DC
	CST2xx	Computer Networks	3-0-0	3	DC
	CST2xx	Theory of Computation	3-1-0.	4	DC
	CST2xx	Machine Learning	3-0-0	3	DC
	CST2xx	Database Information Systems	3-0-0	3	DC
	MMT2xx	Basics of Managements	3-0-0	3	MM
	CSP2xx	Machine Learning Lab	0-0-2	1	DC
	CSP2xx	Computer Networks Lab	0-0-4	2	DC
	CSP2xx	Database Information Systems Lab	0-0-4	2	DC
				24	

54		Fifth Semeste	r		
S. No	Code	Subject	L-T-P	Credits	Туре
	CST3xx	Operating System	3-0-0	3	DC
	CST3xx	Software Engineering	3-0-0	3	DC
	CST3xx	Compiler Design	3-0-0	3	DC
V companyons as	CST3xx	Cryptography	3-0-0	3	DC
	CST3xx	Emerging Technologies for Engineering	3-0-0	3	DC/PLEAS
	CST3xx	Program Elective-1	3-0-0	3	PE
	CSP3xx	Operating System Lab	0-0-2	1	DC
	CSP3xx	Compiler Design Lab	0-0-2	1	DC
bid pindar manasa a	CSP3xx	Cryptography Lab	0-0-2	1	DC
				21	page and age, high board Astil a madeller

Honors

CSTxxx Advance Data Structures and Algorithms 3

CSTxxx Computer and Network Security 3

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CSTxxx	Data Structures	3	OE
CSTxxx	Operating System	3	DC

		Sixth Semester			
S. No	Code	Subject	L-T-P	Credits	Туре
	CST3xx	Digital Image Processing	3-0-0	3	DC
	CST3xx	Parallel and Distributed Computing	3-0-0	3	DC
	CST3xx	Artificial Intelligence	3-0-0	3	DC
	CST3xx	Program Elective-2	3-0-0	3	PE
	EExxx	Smart Grid	3-0-0	3	PLEAS
	CST3xx	Computer and Network Security	3-0-0	3	DC
the statement and making a	CSP3xx	Digital Image Processing Lab	0-0-2	1	DC
To a Medica of address	CSP3xx	Parallel and Distributed Computing Lab	0-0-2	1	DC
Stripmin servery or country on	CSP3xx	Computer and Network Security Lab	0-0-2	1	DC
				21	

CSTxxx	Honors Elective-1	3
CSTxxx	Honors Elective-2	3

CSTxxx Computer Networks	3	DC
CSTxxx Database Information Systems	3	DC

Seventh Semester

S. No	Code	Subject	L-T-P	Credits	Туре
1		Open Elective – 1	3-0-0	3	OE
2		Minor Project		3	DC
	CSTxxx	Advance Elective-1	3-0-3	5	AE
	CSTxxx	Advance Elective-2	3-0-3	5	AE
	CSP7xx	Training Seminar	0-0-3	2	DC
				18	

	Honors	
CSTxxx	Honors Elective-3	3
		3

Minor CSE					
-	CSTxxx	Software Engineering	3	DC	
			3		

	Eighth Semester						
S. No	Code	Subject	L-T-P	Credits	Туре		
1		Open Elective – 2	3-0-0	3	OE		
2		Major Project	0-0-12	6			
	CSTxxx	Advance Elective-3	3-0-3	5	AE		
	CSTxxx	Advance Elective-4	3-0-3	5	AE		
				19			

Honors Honors				
	CSTxxx	Honors Elective-4	3	
			3	

	Minor CSE		
CSTxxx	Artificial Intelligence	3	DC
		3	1

Semester-wise Scheme and Syllabus

Scheme and Syllabus of 3rd Semester

	Third Semester						
S. No	Code	Subject	L-T-P	Credits	Type		
	CST2xx	Digital Circuits and Microprocessors	3-0-0	3	DC		
	CST2xx	Design and Analysis of Algorithms	3-0-0	3	DC		
	CST2xx	Object Oriented Analysis and Design	3-0-0	3	DC		
	CST2xx	Data Communications	3-0-0	3	DC		
	CST2xx	Foundation of Learning	3-0-0	3	DC		
	MMT2xx	Social Sciences and Professional Ethics	3-0-0	3	MM		
	CSP2xx	Digital Circuits and Microprocessors Lab	0-0-3	2	DC		
	CSP2xx	Design and Analysis of Algorithms Lab	0-0-3	2	DC		
	CSP2xx	Object Oriented Analysis and Design Lab	0-0-3	2	DC		
	CST2xx	Technical Writing	1-0-2	2	DC		
				26			

Tentative B.Tech(AIDE) Scheme

Department of Artificial Intelligence and Data Engineering

S. No	Code	Subject	L-T-P	Credit	Typ e
		Programming with Python	2-0-0	2	IC
unit		Programming lab	0-0-2	1	IC
		Other Institute Core Subjects		15	IC
	CST1x x	Problem Solving using C	2-0-0	2	DC
	AIT1xx	Discrete Mathematics	3-0-0	3	DC
	AIP1xx	Problem Solving Using C Lab	0-0-2	1	DC
				24	

	Second Semester						
S. No	Code	Subject	L-T-P	Credit	Тур		
Linu.		Programming with Python	2-0-0	2	IC		
		Programming with Python lab	0-0-2	1	IC		
		Other Institute Core Subjects		15	IC		
	AIT1xx	Data Structures	3-0-0	3	DC		
	AIT1xx	Foundation of Learning	3-0-0	2	DC		
	AIP1xx	Data Structures Lab	0-0-4	2	DC		
			-	25			

	Third Semester						
S. No	Code	Subject	L-T-P	Credit	Тур		
	AIT2xx	Digital Systems and Computer Architecture	4-0-0	4	DC		
	AIT2xx	Design and Analysis of Algorithms	3-0-0	3	DC		
	AIT2xx	Artificial Intelligence	3-0-0	3	DC		
	AIT2xx	Foundations of data science	3-1-0	4	DC		
	AIT2xx	Theory of Computation	3-0-0	3	DC		
	MMT2x	Social Sciences and Professional Ethics	2-1-0	3	BS		

AlP2xx	Digital Systems Lab	0-0-2	1.5	DC
AIP2xx	Design and Analysis of Algorithms Lab	0-0-4	2	DC
AJP2xx	Artificial Intelligence Lab	0-0-4	2	DC
			25	

	Fourth Semester						
S. No	Code	Subject	L-T-P	Credit	Туре		
	AIT2xx	Artificial Neural Networks	3-0-0	3	DC		
	AIT2xx	Operating Systems	3-0-0	3	DC		
	AIT2xx	Compiler	3-0-0.	3	DC		
	AIT2xx	Machine Learning	3-0-0	3	DC		
	AIT2xx	Database Information Systems	3-0-0	3	DC		
	MMT2x x	Basics of Managements	3-0-0	3	MM		
	AIT2xx	Technical Writing	1-0-2	2	DC"		
	AIP2xx	Machine Learning Lab	0-0-2	1	DC		
	AIP2xx	Operating System Lab	0-0-4	2	LDC:		
	AIP2xx	Database Information Systems Lab	0-0-4	2	DC		
				25			

		Fifth Seme	ster		
S. No	Code	Subject	L-T-P	Credits	Туре
	AIT3xx	Digital Image Processing	3-0-0	3	DC
V . A manual in	AIT3xx	Software Engineering	3-0-0	3	DC
Difference and the second of the	AIT3xx	Computer Networks	3-0-0	3	DC
T MANUFACTURE	AIT3xx	Data Analytics	3-0-0	3	DC
	AIT3xx		3-0-0	3	DC/PLEA S
· ywa marina	AIT3xx	Program Elective-1	3-0-0	3	PE
W sharpen	AIP3xx	Operating System Lab	0-0-2	1	DC
on an early	AIP3xx	Compiler Design Lab	0-0-2	1	DC
	AIP3xx	Computer Networks Lab	0-0-4	2	DC
	And the Contraction of the Contr			22	Marian Territoria Springham Compression of the

Honors

AITxxx	Advance Data Structures and Algorithms	3
AITxxx	Machine Learning	3
The state of the s	Later the second	6

AITxx	x Data Structures	3	OE
AITxx	x Operating System	3	DC

		Sixth Semester			
S. No	Code	Subject	L-T-P	Credits	Туре
	AIT3xx	Deep Learning	3-0-0	3	DC
	AIT3xx	Natural Language Processing	3-0-0	3	DC
* 1 9 00000 400	AIT3xx	IOT and Robotics	3-0-0	3	DC
	AIT3xx	Program Elective-2	3-0-0	3	PE
	EExxx	Smart Grid	3-0-0	3	PLEA S
	Al I/3xxx	Computer and Network Security	3-0-0	3	DC
	AIP3xx	Deep Learning Lab	0-0-4	2	DC
a universal una maine una	AIP3xx	Natural Language Lab	0-0-2	1	DC
matte instituted of the street matter and the street of	AIP3xx	IOT and Robotics Lab	0-0-4	2	DC
				23	

	Honors Honors	
AITxxx	Honors Elective-1	3
AITxxx	Honors Elective-2	3
		6

AITxxx	Computer Networks	3	DC
AITxxx	Database Information Systems	3	DC

Seventh Semester			A MARIE		
S. No	Code	Subject	L-T-P	Credit s	Тур

1		Open Elective – 1	3-0-0	3	OE
2		Minor Project		3	DC
	AITxxx	Advance Elective-1	3-0-3	5	AE
	AITxxx	Advance Elective-2	3-0-3	5	AE
	AIP7xx	Training Seminar	0-0-3	2	DC
				18	

		Honors		
and the entire transfer	AITxxx	Honors Elective-3	3	
	May 48 4. 41 44		3	-

	Minor AIDE		
AITxxx	Artificial Intelligence	3	DC
Poor		3	

		Eighth Semester			W 688
S. No	Code	Subject	L-T-P	Credit	Туре
1		Open Elective – 2	3-0-0	3	OE
2		Major Project	0-0-12	6	
	AITxxx	Advance Elective-3	3-0-3	5	AE
	AlTxxx	Advance Elective-4	3-0-3	5	AE
				19	

	Southern	Honors	
- 4 . 374	1	Honors Elective-4	3
			3

	Minor AIDE		
AITxxx	Federated Learning	3	DC
		3	

Curriculum Structure of B. Tech. (Electrical Engineering)

I Semester

S. No.	Course Title	Course Type	Credits (LTP)
1.	Basic Electrical Engineering	Institute Core	2 (2 0 0)
2.	Electrical Engineering Lab	Institute Core	1 (0 0 2)
3,	Power Generation Sources	Program Core	4 (3 1 0)

II Semester

S. No.	Course Title	Course Type	Credits
112	Network Theory	Program Core	(LTP) 4 (3 1 0)
3	Measurements and Actuators	Program Core	4 (3.1.0)
9	Measurement and Instrumentation Lab	Program Core	1 (0 0 2)
-		Total Credits (I & II Sem)	38 (Fixed) + 13 = 51

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III Semester

S. No.	Course Title		
,		Course Type	Credits
1.	Electrical Machines-I	Program Core	(LTP)
2.	Integrated Electronics		4 (3 1 0
3.	Advanced Engineering Mathematics	Program Core	4 (3 1 0
4.	Analysis & Design of Digital Logic Circuits	Program Linked Course-1 (Department of Mathematics)	4 (3 1 0
5.	Network, Systems and Signals	Program Core	4(310)
6.	Advanced Programming for Design	Program Core	4 (3 1 0)
7.	Electrical Software and Simulation Lab	Program Core	2(200)
	Electronic Devices and Circuit Lab	Program Core	1 (0 0 2)
	Electrical Machines Lab – I	Program Core	1 (0 0 2)
	Ta0 - 1	Program Core	1 (0 0 2)
		Total Credits	25

IV Semester

S. No.	Course Title		
1,		Course Type	Credits
2.	Microprocessor and Microcontroller	Program Core	(LTP)
	Electrical Machines-II	Program Core	4 (3 1 0)
3,	Transmission and Distribution Systems		4 (3 1 0)
4.	Power Electronics-I	Program Core	4 (3 1 0)
5.	Control System Engineering	Program Core	4 (3 1 0)
5.	Seminar Seminar	Program Core	4 (3 1 0)
7.		Program Core	1 (0 0 2)
	Digital Electronics and Microprocessor Lab	Program Core	
3.	Electrical Machine Lab - II	Program Core	1 (0 0 2)
). 	Control System Lab		1 (0 0 2)
		Program Core	1 (0 0 2)
		Total Credits	24

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V Semester

S. No.	Course Title	Course Type	Credits (LTP)
Ł.	Basics of Management	Management	3 (3 0 0)
2.	Principles of Communication Engineering	Program Linked Course-2 (Department of Electronics and Communication)	4 (3 1 0)
3.	Power System Switchgear and Protection	Program Core	4 (3 1 0)
4.	Modern Control Engineering	Program Core	4 (3 1 0)
5	Power Electronics-II	Program Core	4 (3 1 0)
6.	Power System Lab	Program Core	1 (0 0 2)
7.	Power Electronics Lab	Program Core	1 (0 0 2)
8.	Honours Course	(Optional)	3 (3 0 0)
9.	Honours Course 2	2 (Optional)	3 (3 0 0)
		Total Credits	21 (+6)

VI Semester

S. No.	Course Title	Course Type	Credits (LTP)
1.	Operation and Control of Power Systems	Program Core	4 (3 1 0)
2.	Electric Drives & Control	Program Core	4 (3 1 0)
3.	Digital Signal Processing	Program Core	4 (3 1 0)
4.	Advanced Power Transmission	Program Core	4 (3 1 0)
5.	Industrial Machine Learning	Program Core	4 (3 1 0)
6.	Power System and Electrical Design Lab	Program Core	1 (0 0 2)
7.	Electrical Drives Lab	Program Core	1 (0 0 2)
8.	Honours Course	3 (Optional)	3 (3 0 0)
9	Honours Course	4 (Optional)	3 (3 0 0)
		Total Credits	22 (+6)

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VII Semester

S. No.	Course Title	Course Type	Credits (LTP)
1	Training Seminar	Program Core	2 (0 0 4)
2.	p	rogram Elective	4 (3 1 0)
3.	P	rogram Elective	4 (3 1 0)
4.		Open Elective 1	3 (3 0 0)
5.	Minor Project	Project (Core)	3 (0 0 6)
6.	Honour	s Course 5 (Optional)	3 (3 0 0)
		Total Credits	16 (+3)

VIII Semester

S. No.	Course Title	Course Type	Credits (LTP)
*	Major Project (Option A)	Project (Optional)	8 (0 0 16)
2.	Option B	Program Elective	4 (3.10)
	Option B	Program Elective	4 (3 1 0)
3.	Program Elective		4 (3 1 0)
4.	Program Elective		4 (3 1 0)
5.	Open Elective 2		3 (3 0 0)
6.	Honours Course 6 (Optional)		3 (3 0 0)
where he manufacture		Total Credits	19 (+3)

Total Credits = 178 (+18)

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List of Program Electives (for VII Semester)

No.	Course Title	Credits *(LTP)
	Computer Aided Power System Analysis	4 (3 1 ())
	Optimal Control Systems	4 (3 1 0)
7.	Advanced Electric Drives & Control	4 (3 1 0)
~4	Power System Restructuring, Deregulation and Economics	4 (3 1 0)
5	High Voltage Engineering	4 (3 1 0)
e.	Electrical Machine Design	4(310)
the state of the s	Utilization of Electrical Power	4 (3 1 0)
	Robotics	4 (3 1 0)
9	Computer Architecture and Organization	4 (3 1 0)
	Basics of Image Processing	4 (3 1 0)

List of Program Electives (for VIII Semester)

\. \v.	Course Title	Credits (LTP)
1.	Modelling and Analysis of Distribution Systems	4(310)
-	Power System Reliability	4 (3 1 0)
***************************************	Smart Grid Systems	4 (3 1 0)
1 y	High Power Converters	4 (3 1 ())
£ .	Power System Stability	4 (3 1 0)
	Electric Vehicle Technology	4 (3 1 0)
A over present transmission	Applications of Power Flectronics in Power Systems	4 (3 1 0)
ě.	Microcontroller Based System Design	4 (3 1 0)
the distinctions or prompting and advantage to the	Intelligent Systems & Control	4 (3 1 0)
10.	Biomedical Signal Processing	4 (3 1 0)

B. Tech. with Honours (List of Courses)

No.	Course Title	Semester	Credits (LTP)
Namanana and San	Modelling & Simulation of Power Electronic Systems	٧	3 (3 0 0)
m .	Special Electrical Machines and Applications	The statement of the st	3 (3 0 0)
,7,	Advanced Power System Protection	VI	3 (3 0 0)
4.	Nonlinear Control Systems	VI	3 (3 0 0)
5.	Power System Dynamics	7:11	3 (3 0 0)
6.	Switched Mode Power Conversion	VIII	3 (3 0 0)
		Total Credits	18

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Open Elective (For other departments)

No.	Course Title	Credits
	Carried Creeking &	(LTP)
-	Control System Engineering	3 (3 0 0)
7 h s	Energy Conservation and Management	3 (3 () ()
	Electric Vehicle Technology	Wednesday with the work of the secondary
- Antonio Inchiana	The second secon	3 (3 0 0)
Withdrawal Consider their	Smart Grid Systems	3 (3 0 0)

Program Linked Courses offered by the Department:

0.	Course Title	Credits
	Control System Engineering	(LTP)
	Network Theon	4(310)
Motor Collectors (Special St	Smart Grid Systems	of (3) (1)

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First Semester COMMON to ALL Branches

S.No.	Semester	Course Code	Course Name	Category	Туре	Credit	L-T-P
1	9		Technical Communication (Basic/ Advanced)	PC	Theory	2	2-0-0
2	1		Mathematics I	PC	Theory	4	3-1-0
3	1		Physics	PC	Theory	3	2-1-0
4			Computer Science and Programming	PĆ	Theory	2	2-0-0
5	1		Basics of Electronics Engg.	PC	Theory	2	2-0-0
6	1		Basics of Electrical Engg.	* PC	Theory	2	2-0-0
7	1		Language Lab (Basic/ Advanced)	PC.	Lab	1	0-0-2
8	5		Electrical Engineering Lab	PC	Lab	1	0-0-2
9	Г		Electronics Engineering Lab	PC	Lab	1	0-0-2
10	i de la companya de l		Programming Lab	PC	Lab	1	0-0-2
11			Physics Lab	PC	Lab	1	0-0-2
					Total	20	

First Semester Dept. of ECE

S.No.	Semester	Course Code	Course Name	Category	Туре	Credit	L-T-P
1	1		Network Theory	PC	Theory	3	3-0-0
2	1		Electronic Measurement and Instrumentation	PC	Theory	3	3-0-0
					Total	6	

Second Semester COMMON to ALL Branches

S.No.	Semester	Course Code	Course Name	Category	Туре	Credit	L-T-P
1	and the second		Basic Economics	PC	Theory	2	2-0-0
2	1444		Mathematics II	PC	Theory	4	3-1-0
3			Chemistry	PC	Theory	3	2-1-0
4	81		Engineering Drawing and Sketching	PC	Theory	2	1-1-1
5	11		Environmental Science and Ecology	PC	Theory	2	2-0-0
6	- Calabara Tanan		Introduction to Mechanical systems	PC	Theory	2	2-0-0
7	11		Product Realization through Manufacturing	PC	Lab	1	0-0-2
8	11		Chemistry Lab	PC	Lab	1	0-0-2
					Total	17	

Second Semester Dept. of ECE

S.No.	Semester	Course Code	Course Name	Category	Type	Credit	L-T-P
1	Year		Signals and Systems	PC	Theory	3	3-0-0
2	tener tener		Electronic Devices and Circuits	PC	Theory	3	3-0-0
3	and		Signals and Systems Lab	PC	Lab	1	0-0-2
4	II		Electronic Devices and Circuits Lab	PC	Lab	1	0-0-2
					Total	8	

CURRICULUM SECOND YEAR

Third Semester Dept. of ECE

S.No.	Semester	Course Code	Course Name	Category	Type	Credit	L-T-P
1	111		Analog Communication	PC	Theory	3	3-0-0
2	d or other		Digital Logic Design	PC	Theory	3	3-0-0
3			Linear Integrated Circuits	PC	Theory	3	3-0-0
4	t odes		Data Structures & Algorithms	PC	Theory	3	3-0-0
5	union constitution of the		Operating Systems	PC	Theory	3	3-0-0
6	1.00		Electro-magnetic Field Theory	PC	Theory	3	3-0-0
7	111		Analog Communication Lab	PC	Lab	1	0-0-2
8	***		Digital Logic Design Lab	PC	Lab	1	0-0-2
9	441		Linear Integrated Circuits Lab	PC	Lab	1	0-0-2
10	111		Data Structures & Algorithms Lab	PC	Lab	2	0-0-4
11	111		Operating Systems Lab	PC	Lab	1	0-0-2
					Total	24	

Fourth Semester Dept. of ECE

S.No.	Semester	Course Code	Course Name	Category	Туре	Credit	L-T-P
1	IV	1901	Digital Communication Systems	PC	Theory	3	3-0-0
2	IV		Computer Architecture	PC.	Theory	3	3-0-0
3	IV		Microwave Engineering	PC	Theory	3	3-0-0
4	IV		Control Systems Engineering	PLEAS	Theory	3	3-0-0
5	IV		Analog CMOS IC	PC	Theory	3	3-0-0
6	IV.		Digital Signal Processing	PC	Theory	3	3-0-0
7	IV		Technical Documentation	PC	Theory	1	1-0-0
8	IV		Digital Communication Systems Lab	PC	Lab	1	0-0-2
9	IV		Microwave Engineering Lab	PC	Lab	1	0-0-2
10	IV		Analog CMOS IC Lab	PC	Lab	1	0-0-2
11	IV		Digital Signal Processing Lab	PC	Lab	1	0-0-2
12	IV		Technical Report Writing & Presentation	PC	Seminar	1	0-0-2
					Total	24	
13	IV		Audit Course : Soft Skills & Personality Development	OE	Theory	3	2-1-0

CURRICULUM THIRD YEAR

Fifth Semester Dept. of ECE

S.No.	Semester	Course Code	Course Name	Category	Туре	Credit	L-T-P
1	V		Microprocessors	PC	Theory	3	3-0-0
2	V		Antenna & Wave Propagation	PC	Theory	3	3-0-0
3	V		VLSI Testing & Testability	PC	Theory	3	3-0-0
4	V		Embedded Systems	PC	Theory	3	3-0-0
5	V		Digital CMOS IC	PC	Theory	3	3-0-0
6	V		Microprocessors Lab	PC	Lab	1	0-0-2
7	V		Antenna & Wave Propagation Lab	PC	Lab	1	0-0-2
8	V		Digital CMOS IC Lab	PC	Lab	1	0-0-2
9	V		Embedded Systems Lab	PC	Lab	1	0-0-2
10	V		Project Based Learning	PC	Project	3	0-0-6
					Total	22	
11	V		HONS 1:	PE	Theory	3	3-0-0
12	V		HONS 2:	PE	Theory	3	3-0-0
13	V		Minor 1:	PE	Theory	3	3-0-0
14	V		Minor 2:	PE	Theory	3	3-0-0
			Earn 6 Credits HONS/Minor		Total	28	
15	V		Universal Human Values & Ethics			2	2-0-0

Sixth Semester Dept. of ECE

S.No.	Semester	Course	Course Name	Category	Туре	Credit	L-T-P
1	VI		Management Principles for Engineers	PC	Theory	3	3-0-0
2	VI		Optical Communication Systems	PC	Theory	3	3-0-0
3	VI		Wireless & 5G communication	PC	Theory	3	3-0-0
4	VI		Neural Networks & Fuzzy Logic	PC	Theory	3	3-0-0
5	VI		Satellite & Radar Engineering	PC	Theory	3	3-0-0
6	VI		Computer & Network Security	PLEAS	Theory	3	3-0-0
7	VI		Project Based Learning/ MOOCS@	PC	Project	3	0-0-6
8	VI		Optical Communication Systems Lab	PC	Lab	1	0-0-2
9	VI	-	Wireless & 5G communication Lab	PC	Lab	1	0-0-2

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10	VI	Neural Networks and Fuzzy Logic Lab	PC	Lab	1	0-0-2
				Total	24	
11	VI	HONS 3:	PE	Theory	3	3-0-0
12	VI	HONS 4:	PE	Theory	3	3-0-0
13	VI	Minor 3:	PE	Theory	3	3-0-0
14	VI	Minor 4:	PE	Theory	3	3-0-0
		Earn 6 Credits HONS/Minors		Total	30	

CURRICULUM FOURTH YEAR

Seventh Semester Dept. of ECE

S.No.	Semester	Course Code	Course Name	Category	Туре	Credit	L-T-P
1	VII		Programme Elective 1	PE	Theory	3	3-0-0
2	VII		Programme Elective 2	PE	Theory	3	3-0-0
3	VII		Programme Elective 3	PE	Theory	3	3-0-0
4	VII		Open Elect 1:/MOOCS#	OE	Theory	3	3-0-0
5	VII		Minor Project	PC	Project	3	0-0-6
6	VII		Training Seminar	PC	Lab	2	0-0-4
					Total	17	
7	VII		HONS 5:*	PE	Theory	3	3-0-0
8	VII		HONS 6:*	PE	Theory	3	3-0-0
9	VII		Minor 5:*	PE	Theory	3	3-0-0
10	VII		Minor 6:*	PE	Theory	3	3-0-0
			Earn 6 Credits HONS/OTH SP.		Total	23	

Eighth Semester Dept. of ECE

S.No.	Semester	Course Code	Course Name	Category	Туре	Credit	L-T-P
1	VIII		Programme Elective 4	PE	Theory	3	3-0-0
2	VIII		Programme Elective 5	PE	Theory	3	3-0-0
3	VIII		Programme Elective 6	PE	Theory	3	3-0-0
4	VIII		Major Project	PC	Project	6	0-0-12
5	VIII		Open Elect 2:/MOOCS#	OE	Theory	3	3-0-0
					Total	18	
7	VIII		HONS 5:*	PE	Theory	3	3-0-0
8	VIII		HONS 6:*	PE	Theory	3	3-0-0
9	VIII		Minor 5:*	PE	Theory	3	3-0-0
10	VIII		Minor 6:*	PE	Theory	3	3-0-0
			Earn 6 Credits HONS/OTH SP.		Total	24	

Important Instructions

1) (*) Indicated subject can be taken in either VII/ VIII Semester-

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- 2) The department elective list is attached as a separate sheet.
- 3) One Semester Industrial Internship is permitted for students either in VII/VIII Semester.
- 4) Waiver in internship will be given only for departmental program electives and open electives for maximum 16 credits.
- 5) One Credit Courses will be offered by the department in addition to above credits.
- 6) (#) In exceptional cases, MOOCS courses can be allowed in lieu of OPEN Electives 1 and 2 with due permission from DUGC. MOOCS courses should preferably be chosen from NPTEL/SWAYAM/EDX or other reputed having proctored examination. The course approval and evaluation would be moderated by DUGC with respective faculty guide having freedom of evaluating upto 50% of the total weightage.
- 7) A student of plain BTech may be allowed to choose electives from any one or more of the Tables (programme electives, Honors' baskets)
- 8) A honors student can choose programme electives from any other one or more Tables except her/his own Honors
- 9) All courses of M.Tech. would be available to students as Program Elective

Seventh and Eighth Semester Program Elective List, Dept. of ECE Each subject is 3 Credit (L-T-P as 3-0-0)

Sl. No.	Course Code	Course Name
1	, , , , , , , , , , , , , , , , , , ,	GRAPH THEORY
2		ARTIFICIAL INTELLIGENCE & EXPERT SYSTEMS
3	*	ADVANCED ERROR CONTROL CODES
4		IMAGE PROCESSING
5		CAD ALGORITHMS FOR VLSI PHYSICAL DESIGN
6		CAD ALGORITHMS FOR SYNTHESIS OF VLSI SYSTEMS
7		SYSTEM LEVEL DESIGN & MODELLING
8		PROBABILITY THEORY & STATISTICS
9		ADVANCED MICROPROCESSORS & MICRO- CONTROLLERS
10		COMPUTER NETWORKS
11		ADV. MICROWAVE ENGG
12		DESIGN OF MICROSTRIP ANTENNA
13		ADVANCED ANTENNA SYSTEMS
14		MICROWAVE INTEGRATED CIRCUITS
15		POWER ELECTRONICS
16		SEMICONDUCTOR OPTO-ELECTRONICS
17		MEMORY DESIGN & TESTING
18		ELECTRONIC MANUFACTURING TECHNOLOGY
19		FORMAL VERIFICATION OF DIGITAL HARDWARE & EMBEDDED SOFTWARE
20		PARALLEL COMPUTING ARCH
21		BIO-MEDICAL ENGINEERING
22		CURRENT-MODE ANALOG SIGNAL PROCESSING
23		OPTICAL CODES AND APPLICATIONS
24		ADAPTIVE SIGNAL PROCESSING
25		VLSI SIGNAL PROCESSING ARCHITECTURES

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26	FPGA PHYSICAL DESIGN
27	VLSI TECHNOLOGY
28	INFORMATION THEORY & CODING
29	SYSTEM DESIGN USING FPGAs
30	INSTRUMENTATION & CONTROL
31	WIRELESS AND MOBILE ADHOC NETWORKING
32	CRYPTOGRAPHY
33	DESIGN OF MIC AND MMIC'S
34	ADVANCED MOBILE SYSTEMS
35	SMART AND PHASED ARRAY ANTENNA DESIGN
36	ADVANCED TOPICS IN COMMUNICATION
37	PHOTONIC INTEGRATED DEVICES AND SYSTEMS
38	EMI/EMC
39	WIRELESS SENSOR NETWORKS
40	COMPUTATIONAL ELECTROMAGNETICS
41	ADVANCED PHOTONIC DEVICES AND COMPONENT
42	TELECOMMUNICATION TECHNOLOGY AND
	MANAGEMENT
43	ADVANCED NETWORKING ANALYSIS
44	ADVANCED DIGITAL SIGNAL & IMAGE PROCESSING
45	MICROELECTRONIC DEVICES AND CIRCUITS
46	ADVANCED COMPUTER ARCHITECTURE
47	MICRO AND NANO ELECTRO MECHANICAL
	SYSTEMS SYSTEMS
48	SYNCHRONOUS & ASYNCHRONOUS SEQUENTIAL
	CIRCUITS
49	ESTIMATION AND DETECTION
50	RF INTEGRATED CIRCUITS
51	PATTERN RECOGNITION AND MACHINE LEARNING
52	QUANTUM COMPUTING
53	PHOTONIC SWITCHING
54	SYSTEM LEVEL DESIGN & MODELING
55	FUNDAMENTALS OF PHOTONICS
56	
57	FOUNDATIONS OF MACHINE LEARNING
	FOUNDATIONS OF DATA SCIENCE
58	ADVANCED SEMICONDUCTOR DEVICES & CIRCUITS
59	QUANTUM MECHANICS FOR ELECTRONICS
(0)	ENGINEERING
60	EMBEDDED SoC & CYBER PHYSICAL SYSTEMS
61	MEDICAL ENGINEERING & SYSTEMS
62	MIXED SIGNAL IC DESIGN

HONORS AND MINOR SPECIALIZATION

A. The students will have the option to choose from a basket of multiple sub-domains within the parent department (through Honors) or sub-domains of departments other than the parent department (Minor Specialization).

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- B. Requirements for Honors and Minor Specialization programs
 - i. Honors and Minor programs start from V Semester.
 - ii. Minimum CGPA requirements for registration shall be 7.50 at the end of IV semester. Students of a department will be allowed to register for Honors program offered by their parent department, while students of a department will be allowed to register for Minor program offered by any other department.
 - iii. Number of additional credits shall be 18 with 6 courses (or 5 courses + 1 mini project of 3 credits) as prescribed by the department offering Honors/Minor program.
 - iv. The student is required to plan registration for Honors/Minor program courses, in order to complete all the six courses by the end of VIII semester.
 - v. Maximum number of students enrolled in any course of a Minor program shall be 30. The allotment of students in the minor program shall be on the basis of CGPA.
 - vi. The student will not be allowed to continue/register for Honors/ Minor specialization if his/her CGPA falls below 7.50. In case, his/her CGPA improves to 7.50 or higher in subsequent semester(s), he/she may be allowed to continue.
 - vii. Students should be prepared to write more than one exam in a day.
- C. After successful completion of the requirements of the Honors program, the student will be awarded a degree in "name of the discipline" with "Honors" (e.g. Bachelor of Technology in Civil Engineering with Honors or Bachelor of Technology in Mechanical Engineering with Honors etc.).
- D. After successful completion of the requirements of the Minor program, the student will be awarded a degree in "name of the discipline" with minor specialization in "name of the minor specialization" (e.g. Bachelor of Technology in Electrical Engineering with Minor Specialization in Environmental Engineering or Bachelor of Technology in Computer Science and Engineering with Minor Specialization in Quantum Mechanics etc.).

Table-I: MINOR in Electronics and Communication Engineering

S.No.	Semester	Course Code	Course Name	Category	Type	Credit	L-T-P
1			Analog Communication		Theory	3	3-0-0
2			Digital Logic Design		Theory	3	3-0-0
3			Signals and Systems		Theory	3	3-0-0
4			Electronic Devices and Circuits		Theory	3	3-0-0
5			Linear Integrated Circuits		Theory	3	3-0-0
6			Wireless and 5G Communication		Theory	3	3-0-0
7			Digital Communication Systems		Theory	3	3-0-0
8			Embedded Systems		Theory	3	3-0-0

1) The student has to do 6 courses. The (*) indicated two subjects can be taken in either VII/VIII semester considering the provision for one semester industrial internship.

Honors offered by Department of Electronics and Communication Engineering

Table-II Honors in Machine Learning and Signal Processing

S.No.	Semester	Course Code	Course Name	Category	Type	Credit	L-T-P
1			Modeling, Optimization and Transforms		Theory	3	3-0-0
2			Multirate Signal Processing		Theory	3	3-0-0
3			Medical Engineering and Systems		Theory	3	3-0-0
4			Computer Vision		Theory	3	3-0-0
5			Reduced order modeling, Optimization and Machine Intelligence		Theory	3	3-0-0
6			VLSI Signal Processing Architecture		Theory	3	3-0-0
7			Mini Project on Machine Learning and Signal Processing		Practical	3	0-0-6
8			Adaptive Signal Processing		Theory	3	3-0-0
9			Advanced Digital Signal and Image Processing		Theory	3	3-0-0
10			Pattern Recognition and Machine Learning		Theory	3	3-0-0
11			Mini Project on Machine Learning and Signal Processing		Practical	3	0-0-6

- 1) The student has to do 6 courses. The (*) indicated two subjects can be taken in either VII/VIII semester considering the provision for one semester industrial internship.
- 2) The student has to do 6 courses. The (*) indicated two subjects can be taken in either VII/VIII semester considering the provision for one semester industrial internship.

Table-III Honors in VLSI Design

S.No.	Semester	Course Code	Course Name	Category	Туре	Credit	L-T-P
1			CAD ALGORITHMS FOR VLSI PHYSICAL DESIGN		Theory	3	3-0-0
2			CAD Algorithms for Synthesis of VLSI Systems		Theory	3	3-0-0
3			Digital System Design & FPGA		Theory	3	3-0-0
4			Formal Verification of Digital Hardware & Embedded Software		Theory	3	3-0-0

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5	Micro-& Nano- electro-mechanical Systems (MEMS & NEMS)	Theory	3	3-0-0
6	Mini Project on VLSI Design	Theory	3	3-0-0
7	Mixed Signal IC Design	Theory	3	3-0-0
8	Nanotechnology & Emerging Applications	Theory	3	3-0-0
9	System Level Design & Modeling	Theory	3	3-0-0
10	VLSI SIGNAL PROCESSING ARCHITECTURES	Theory	3	3-0-0
11	VLSI Technology	Theory	3	3-0-0
12	Quantum Computing	Theory	3	3-0-0

3) The student has to do 6 courses. The (*) indicated two subjects can be taken in either VII/VIII semester considering the provision for one semester industrial internship.

Tabel V Honors in Embedded & Intelligent Systems

S.No.	Semester	Course Code	Course Name	Category	Type	Credit	L-T-P
1			Advanced Embedded software design		Theory	3	3-0-0
2			Advanced Microcomputer Systems & Interfacing		Theory	3	3-0-0
3			CAD Algorithms for Synthesis of VLSI Systems		Theory	3	3-0-0
4			Computer vision		Theory	3	3-0-0
5			Formal Verification of Digital		Theory	3	3-0-0
6			Hardware & Embedded Software		Theory	3	3-0-0
7			Mini Project on Embedded Systems	N V	Practical	3	0-0-6
8			Pattern Analysis & Machine Intelligence		Theory	3	3-0-0
9			Reduced order Modeling, Optimization & Machine intelligence		Theory	3	3-0-0
10			Embedded SoC Design		Theory	3	3-0-0
11			Probabilistic Machine Learning & Al Quantum Computing		Theory	3	3-0-0
12			Internet of Things & IIoT		Theory	3	3-0-0

1) The student has to do 6 courses. The (*) indicated two subjects can be taken in either VII/VIII semester considering the provision for one semester industrial internship.

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Exit Options

A. Students will have following exit options:

Table VI: Exit options and eligibility condition

S. No.	Exit option with	Eligibility Condition
1	Diploma Certificate	After successfully completing all courses of I to IV semesters or The student has earned 100 credits through graded courses
2	B.Sc. (engg.) Degree	After successfully completing all courses of I to VI semesters or The student has earned 142 credits through graded courses
3	B.Tech. Degree	After successfully completing all courses of I to VIII semesters

- B. Maximum duration of completing a UG program shall be 6 years (12 semesters) from initial registration excluding semester withdrawals, if the student has not exercised any exit option and has completed his registration in every semester.
- C. Maximum duration of completing a UG program shall be 8 years (16 semesters) from initial registration excluding semester withdrawals, for students who have exercised any exit option given in Table 1 above.

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First Year (I and II Semester)

S. No	Course Code	Course Title	Cate- gory	L	Т	Р	Credits	No of Hrs	Total Credit	Syllabus at Page- No.
1		Engineering Chemistry	BS	2	1	0	3	3		
2		Engineering Chemistry Lab	BS	0	0	2	1	2		
3		Classical Physics	BS	2	1	0	3	3		
4		Classical Physics Lab	BS	0	0	2	1	2		
5		Mathematics I	BS	3	1	0	4	4		
6		Mathematics II	BS	3	1	0	4	4		
7		Basics of Electrical Eng.	EAS	2	0	0	2	2		
8		Electrical Engineering Lab	EAS	0	0	2	1	2		
9		Basics of Electronics Eng.	EAS	2	0	0	2	2		
10		Electronics Engineering Lab	EAS	0	0	2	1	2		
11		Engineering Drawing and Sketching	EAS	1	0	0	1	1		
12		Engineering Drawing and Sketching Lab	EAS	0	0	2	1	2		
13		Programming with Python	EAS	2	0	0	2	2		
14		Programming with Python Lab	EAS	0	0	2	1	2		
15		Environmental Science	EAS	2	0	0	2	2		
16		Introduction to Mechanical Systems	EAS	2	0	0	2	2		12
17		Product Realization through Manufacturing	EAS	0	0	2	1	2		13
18		Basic Economics	HSS	2	0	0	2	2		
19		English Communication Skills	HSS	2	0	0	2	2		
20		Communication Skills lab	HSS	0	0	2	1	2		
							38	45	38	
21		Applied Probability and Statistics	PC	2	1	0	3	3		Sem I-14
22		Casting, Welding and Forming	PC	3	0	0	3	3		Sem I-15
23		Casting, Welding and Forming Lab	PC	0	0	2	1	2		Sem I-16
24		Engineering Thermodynamics	PC	3	1	0	4	4		Sem II-17
25		Engineering Mechanics	PC	2	1	0	3	3		Sem II-18
							14	15	14	
							51	60		

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		ne .	II Semeste	r						
S. No	Course Code	Course Title	Cate- gory	L	Т	Р	Credit s	No of Hrs	Total Credit	Syllabus at Page No.
1		Materials Science and Engineering	PC	3	0	0	3	3		19
2		Fluid Mechanics	PC	3	1	0	4	4		20
3		Solid Mechanics	PC	3	1	0	4	4		21
4		Kinematics of Machines	PC	2	1	0	3	3		22
5		Mechanical Measurements and Metrology	PC	3	0	0	3	3		23
6		Basics of Management	Mgt.	3	0	0	3	3		700 COT ATS
7		Computer-Aided Machine Drawing	PC	0	0	4	2	4		24
8		Materials Science and Engineering Lab	PC	0	0	2	1	2		25
9		Fluid Mechanics Lab	PC	0	0	2	1	2		26
10		Mechanical Measurements and Metrology Lab	PC	0	0	2	1	2		27
11										
							25	31	25	
		IV Semester								
1		I C Engines	PC	3	0	0	3	3		28
2		Operations Planning and Control	PC	2	1	0	3	3		29
3		Science of Machining	PC	3	1	0	4	4		30
4		Dynamics of Machines	PC	3	1	0	4	4		31
5		Heat Transfer	PC	3	1	0	4	4		32
6		I C Engines Lab	PC	0	0	2	1	2		33
7		Science of Machining Lab	PC	0	0	2	1	2		34
8		Kinematics and Dynamics of Machines Lab	PC	0	0	2	1	2		35
9		Heat Transfer Lab	PC	0	0	2	1	2		36
10	XXXXXXX	Program Elective-1	PE				3	3		
							25	29	25	

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S. No	Course Code	Course Title	Cate- gory	L	Т	Р	Credit s	No of Hrs	Total Credit	Syllabus at Page- No
1		Design of Machine Elements	PC	3	1	0	4	4		37
2		Operations Research	PC	2	1	0	3	3		38
3		Fluid and Turbo Machines	PC	3	1	0	4	4		39
4		CAD & CAM	PC	3	0	0	3	3		40
5		CAD & CAM Lab	PC	0	0	2	1	2		41
7		Industrial Engineering	PC	2	0	0	2	2		42
8		Industrial Engineering Lab	PC	0	0	2	1	2		43
9	XXXXXXX	Control System Engineering	PL- EAS	3	1	0	4	4		
10	XXXXXX	Introduction to Standardization	Audit	1	0	0	J	1		
11	XXXXXX	Honors-1	HE				3			
12	XXXXXXX	Honors-2	HE	10			3			
		Semester Credits in B Tech(Only)					22	24	22	
		Semester Credits in B Tech(Hon.)					28		28	Ú
			I Semeste							
1		Refrigeration and Air Conditioning	PC	2	1	0	3	3		44
2		Design of Mechanical Systems	PC	3	1	0	4	4		45
3		Advanced Machining & Additive Manufacturing	PC	3	0	0	3	3		46
4		Advanced Machining & Additive Manufacturing Lab	PC	0	0	2	1	2		47
5		Refrigeration & Air-conditioning Lab	PC	0	0	2	1	2		48
6		Computer Aided Engineering Lab	PC	0	0	2	1	2		49
7	XXXXXX	Program Elective-2	PE				3	3		
8	XXXXXXX	Program Elective-3	PE				3	3		
9	XXXXXX	Program Elective-4	PE				3	3		
10	XXXXXX	Honors-3	HE				3			More
11	XXXXXX	Honors-4	HE				3			
		Semester Credits in B Tech(Only)					22	25	22	
		Semester Credits in B Tech(Hon.)					28		28	

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			VII Semeste	er						
S. No	Course Code	Course Title	Cate- gory	L	T	P	Credit s	No of Hrs	Total Credit	Syllabus at Page No
1		Training Seminar	PC	0	0	4	2	4		50
2	XXXXXXX	Program Elective-5	PE				3	3		
3	XXXXXX	Program Elective-6	PE				3	3		
4	XXXXXXX	Program Elective-7	PE				3	3		
5	XXXXXXX	Open Elective -I	OE				3	3		
6		Mini Project	Proj./P C	0	0	6	3	6		51
7	XXXXXXX	Honors-5	HE				3			
		Semester Credits in B Tech (Only)					17	22	17	
		Semester Credits in B Tech (Hon.)					20		20	
		VIII Semester			ı					
			Proj./P	1						
1		Major Project	E	0	0	18	9	18		52
2	XXXXXXX	Program Elective-8	PE				3	3		
3	XXXXXXX	Program Elective-9	PE				3	3		
4	XXXXXXX	Open Elective -2	OE				3	3		-44
5	XXXXXXX	Honors-6	HE				3			***
		Semester Credits in B Tech (Only)					18	18	18	
		Semester Credits in B Tech (Hon.)					21		24	
		Total Credits in B	Tech (Only)						178	
		Total Credits in B Tee	ch (with Honor	s)					196	

Note: The Mini Project (3 credits) in 7th Semester will be compulsory for all students of the department. Major Project (9 credits) will be optional for B.Tech. only program, and the student may earn the required credits against Major Project through elective courses offered by the Department in Even Semester. However, students opting for Honors / Minor specialization / Internship have to compulsorily register for Major project in VIII semester.

As there is no provision of waiver for core courses, the students opting for semester-long internship in the VII semester may submit a report of the work done during their internship or they can carry out an independent project against the minor project.

Students opting for internship in VIII Sem will complete their major project with one supervisor each at the Institute and at the organization offering internship. In this regard, the guidelines for internship, as decided by the Institute from time to time, shall be applicable.

DUGC Convener

Malaviya National Institute of Technology Jaipur

Sem.	Course Code	List of Program El	Cate				0 174	No of	Total	Syllabus at Page-	
	Oode	Made Ohada and Europeania	gory	L	T	Р	Credits	Hrs	Credit	No	
445		Work Study and Ergonomics	DE 4	2	1	0	3	3		53	
4th		Mechatronics in Manufacturing	PE-1	2	1	0	3	3	3	54	
		Machine Learning		2	1	0	3	3		55	
		Design of Heat Exchangers	-	2	1	0	3	3		56	
		Automobile Engineering		3	0	0	3	3		57	
		Design of Mechanisms		2	1	0	3	3		58	
		Robotics Engineering		3	0	0	3	3		59	
		Product Design and Development		2	1	0	3	3		60	
		Design Thinking for Innovations	PE2,	2	1	0	3	3		61	
6th		Finite Element Methods	PE-3	3	0	0	3	3	9	62	
		Metal Forming	and PE4	3	0	0	3	3		63	
		Mechanical Vibrations and Control		3	0	0	3	3		64	
		Supply Chain Management		2	1	0	3	3		65	
		Quality System Engineering		3	0	0	3	3		66	
		Power Plant Engineering		3	0	0	3	3		67	
		Project Management		3	0	0	3	3		68	
		Friction, Wear and Lubrication		3	0	0	3	3		69	
		Mechanics of Composites		3	0	0	3	3		70	
		Air Conditioning System Design		2	1	0	3	3		71	
		Tool Engineering		3	0	0	3	2		72	
		Material Selection in Mechanical Design	PE5, 3	3	0	0	3	2	9	73	
		Lean Six Sigma			PE5, PE6	3	0	0	3	3	
7th		Occupational Health and Safety	and	3	0	0	3	3		75	
		Welding Engineering & Technology	PE7	3	0	0	3	3		76	
		Entrepreneurship & Business Incubation		2	1	0	3	3		77	
		Intellectual Property Rights & Tech. Transfer		2	1	0	3	3		78	
		Industry 4.0		3	0	0	3	3		79	
		Data Analytics		3	0	0	3	3		80	
		Fracture Mechanics		3	0	0	3	3		81	
		Reliability and Maintainability Engineering		3	0	0	3	3		82	
		Advanced Engineering Materials		3	0	0	3	3	6	83	
Oth		Sustainable Mfg. & Life Cycle Engg	PE8	3	0	0	3	3		84	
8th		Computational Fluid Dynamics	and PE9	3	0	0	3	3		85	
		Flexible Manufacturing System		3	0	0	3	3		86	
		Smart Manufacturing		3	0	0	3	3		87	
		Machinery Fault Diagnosis		3	0	0	3	3		88	
		Microfluidics		3	0	0	3	3		89	
		Total Courses		()9 Cou	irses o	ut of 34		27		

Malaviya National Institute of Technology Jaipur

		Honors offered by Mechanical	Engine	ering	g De	parti	ment		г т	
S. N o	Course Code	Course Title	Sem	L	Т	P	Credit s	No of Hr s	Total Credi t	Remarks
		Advanced Manufacturing Technologies ⁵								
1		Metal Additive Manufacturing	V	3	0	0	3	3		90
2		AM, PM&M, Mfg. Automation Lab	V	0	0	6	3	6		91
3		Precision Manufacturing and Measurement	VI	3	0	0	3	3		92
4		Manufacturing Automation	VI	3	0	0	3	3		93
5		Micro-Nano Fabrication	VII	2	1	0	3	3		94
6		Project on AMTs	VIII	0	0	6	3	6	18	95
		Supply Chain Analytics								
1		Data Science for Supply Chain Management	V	2	1	0	3	3		96
2		Modelling Sustainability	V	2	1	0	3	3	3	97
3		Business Logistics	VI	2	1	0	3	3		98
4		Prescriptive Analytics	VI	2	1	0	3	3		99
5		Supply Chain 4.0	VII	2	1	0	3	3		100
6		Project on Supply Chain Analytics	VIII	0	0	6	3	6	18	101
		Robotics & Automation*								
1		Kinematics and Dynamics of Robotic Manipulators	٧	2	1	0	3	3		102
2		Control of Robots and Automation Systems	V	3	0	0	3	3		103
3		Robot Vision and Sensing	VI	3	0	0	3	3		104
4		Programming, Control and Automation Lab	VI	0	0	6	3	3		105
5		Artificial Intelligence for Robotic systems	VII	2	1	0	3	3		106
6		Project on Robotics and Automation	VIII	0	0	6	3	6	18	107
		Advanced Thermal Systems								
1		Advanced Fluid Mechanics	٧	3	0	0	3	3		108
2		Numerical Methods and Data Visualization	٧	2	1	0	3	3		109
3		A. Design of Heat Exchanger / B. Environment, Social and Governance	VI	2	1	0	3	3		110 111
4		High Performance computing and AI in thermal-fluid system	VI	2	1	0	3	3		112
5		A. Computational Heat Transfer / B. Experimental Methods in Thermal Sciences	VII	3	0	0	3	3		113 114
6		Thermal simulation Lab & Project	VIII	0	0	6	3	6	18	115

^{\$}Minor available for Department of MME

^{*}Minor available for Department of CSE, ECE, and EE.

Malaviya National Institute of Technology Jaipur

RULES FOR HONORS AND MINOR SPECIALIZATION

- A. The students will have the option to choose from a basket of multiple sub-domains within the parent department (through Honors) or sub-domains of departments other than the parent department (Minor Specialization).
- B. Requirements for Honors and Minor Specialization programs
 - i. Honors and Minor programs start from V Semester
 - ii. Minimum CGPA requirements for registration shall be 7.50 at the end of IV semester. Students of a department will be allowed to register for Honors program offered by their parent department, while students of a department will be allowed to register for Minor program offered by any other department.
 - iii. Number of additional credits shall be 18 with 6 courses (or 5 courses + 1 mini project of 3 credits) as prescribed by the department offering Honors/Minor program.
 - iv. The student is required to plan registration for Honors/Minor program courses, in order to complete all the six courses by the end of VIII semester.
 - v. Maximum number of students enrolled in any course of a Minor program shall be 30. The allotment of students the minor program shall be on the basis of CGPA.
 - vi. The student will not allowed to continue/register for Honors/Minor specialization if his/her CGPA falls below 7.50. In case, his/her CGPA improves to 7.50 or higher in subsequent semester(s), he/she may be allowed to continue.
 - vii. Students should be prepared to write more than one exam in a day.
- C. After successful completion of the requirements of the Honors program, the student will be awarded a degree in "name of the discipline' with Honors (eg Bachelor of Technology in Civil Engineering with Honors or Bachelor of Technology in Mechanical Engineering with Honors etc.)
- D. After successful completion of the requirements of the Minor program, the student will be awarded a degree in "name of the discipline" with minor specialization in "name of the minor specialization" (e.g Bachelor of Technology in Electrical Engineering with Minor Specialization in Environmental Engineering or Bachelor of Technology in Computer Science and Engineering with Minor Specialization in Quantum Mechanics etc.)

Malaviya National Institute of Technology Jaipur

Course Type	B Tec	h Only	B Tech with	Honors /Minor	
	Actual	Range	Actual	Range	
Institute Core (IC)	37#	37#	37#	37#	
Basic Sciences (BS)	16	16	16	16	
Fundamental Engg.(EAS)	16#	16#	16#	16#	
Humanities & Social Science (HSS)	5	5	5	5	
Discipline Specific Courses (DSC)	133	121-139	133+18*	124 - 142 +18*	
Program Core (PC)	91	109-136	91	124-154	
Program Elective (PE)	27	109-130	27+15*	124-104	
Project	12	3 to 12	12+3*	3 to 12+3*	
Management	3	3	3	0 to 3	
Other Courses (OC)	10	9 to 21	10	9 to 21	
Open Electives (OE)	6	6	6	6	
Program Linked (EAS/BS)	4	3 to 15	4	3 to 15	
Audit Course	1	1	1	1	
Total	180	178 to	180+18*=19 8	196 to 202	

^{*:} Increase of one credit due to split in the course Basic Electrical and Electronics Engg. in two courses of 2 credits each.

^{*} Total 18 Extra Credits for Honors/ Minor.

Malaviya National Institute of Technology Jaipur

Exit Options

A Students will have following exit options:

S. No.	Exit option with	Eligibility condition
4	11.1. 1.1.0:1	After successfully completing all courses of I to IV semesters or
1	Undergraduate Diploma	or
		The student has earned 100 credits through graded courses
_		After successfully completing all courses of I to VI semesters
2	B.Sc. (Engg.) Degree	or
		The student has earned 142 credits through graded courses
3	B.Tech. Degree/	After successfully completing all courses of I to VIII semesters
4	B. Tech Honors	After successfully completing all courses of I to VIII semesters + 18 Credits

- B Maximum duration of completing a UG program shall be 6 years (12 semesters) from initial registration excluding semester withdrawals. If the student has not exercised any exit option and has completed his registration in every semester.
- C Maximum duration of completing a UG program shall be 8 years (16 semester) from initial registration excluding semester withdrawals, for students who have exercised any exit option given in table 1 above.

PL-EAS Courses Offered by MED

S. No	Course Code	Course Title	Category	L	Т	Р	Credit s	No of Hrs	Remarks	Syllabus at Page- No
1		Introduction to CAD & CAM	PL-EAS	2	0	0	2	2	Even Se m	116
2		Introduction to CAD & CAM Lab	PL-EAS	0	0	2	1	2	Even Se m	117
3		Robotics Engineering	PL-EAS	3	0	0	3	3	Odd Sem	59
4		Industry 4.0	PL-EAS	3	0	0	3	3	Even Sem	79

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

Semester I & II

Curriculum structure of B.Tech Programme

14	14	14							-
	w	w	0	0	ω	PC	Mineral Processing	SEM-II	
	4	4	0	Personal	Ç, j	PC	Introduction to Physical Metallurgy	SEM-II	
	4	4	0		w	PC	Fuels, Furnaces and Refractories	SEM-I	-
	ω.	دیا	0	0	w	PC	Introduction to Engineering Materials	SEM-I	-
36	44	36							+
	2	_	2	0	0	HSS	Language Lab		-
	2	2	0	0	2	HSS	Technical Communication		-
	2	2	0	0	2	HSS	Basic Economics		-
	2	_	2	0	0	EAS	Product Realization through Manufacturing		-
	2	2	0	0	2	EAS	Introduction to Mechanical Systems		-
	2	2	0	0	2	EAS	Environmental Science and Ecology		-
	2	-	2	0	0	EAS	Programming Lab		
	2	2	0	0	2	EAS	Computer Science and Programming		_
	3	2		1		EAS	Engineering Drawing and Sketching		
	2	1	2	0	0	EAS	Electronics Engineering Lab		-
	2	_	2	0	0	EAS	Electrical Engineering Lab		
	w	3	0	0	رى د	EAS	Basics of Electronics and Electrical Eng.		
	4	4	0	_	3	BS	Mathematics II		
	4	4	0		(j)	BS	Mathematics I		
	2)mini	2	0	0	BS	Physics Lab		
	w	ယ	0	_	2	BS	Physics		
	2)-mah	2	0	0	BS	Chemistry Lab		
	U3	w	0	_	2	BS	Chemistry		
Total Credits	Contact Hrs	Credits	P	7	T	Category	Course Title	Course Code	S. N.

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Semester III
S. Course
N. Code 9 6 S 4 دی N 00 ~1 Mineral Processing Lab Metallurgical Thermodynamics and Kinetics Mechanical Behaviour and Testing of Metals Fuel, Furnaces and Refractories Lab Foundry Technology Lab Testing of Materials Lab Foundry Technology Electrometallurgy and Corrosion Introduction to Extractive metallurgy Course Title Category PC PC PC PC PC PC PC PC PC -0 0 ړڼ دن دی 0 0 0 0 0 0 =2 N N N 0 0 0 0 7 Credits 24 4 45 4 Contact Hrs 28 4 N 2 N 1 4 Total Credits 24

	12	11	10	9	00	7	6	5	4	(J)	2	hand	Semester IV
	Computer Aided Design and Computer Aided Manufacturing Lab (Program Linked EAS)	Computer Aided Design and Computer Aided Manufacturing (Program Linked EAS)	Introduction to Standardization	Metal Working Lab	NDT and Metallurgical Analysis Lab	Electrometallurgy and Corrosion Lab.	Metallography and Structural Characterization Lab	Transport Phenomena	NDT and Evaluation	Phase Transformation	Iron Making	Mechanical Working of Metals	
	PC	PC	Audit	PC	Dq.	PC	PC	PC	PC	DQ.	PC	PC	
	0	2		0	0	0	0	w	Ų	ယ	دن	ري	
	0	0	0	0	0	0	0	-	0	brood			
	2	0	0	2	2	2	2	0	0	0	0	0	
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3	2	2	pased.	2	2	2	2	4	(J)	4	4	4	
7													

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Semester V

	10	9	00	7	6	Ui	4	w	2	-	s. N.
											Course Code
	Departmental Elective-I	Heat Treatment and Thermodynamics Lab	Powder Metallurgy Lab	Extractive Metallurgy and Thermodynamics Lab	Materials Characterization Lab	Principles of Heat Treatment	Powder Metallurgy	Introduction to Nano Materials and Technology	Production of Sponge Iron and Ferroalloys	Materials Characterization	Course Title
ia ia	PE	PC	PC	PC	PC	PC	PC	PC	PC	PC	Category
	w	0	0	0	0	w	w	ယ	w	ديا	Г
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23	ω	pund	-	pà	Jama	4	w	ىي	w	ω	Credits
27	w	2	2	2	2	4	w	w	ယ	3	Contact Hrs
23											Total Credits

Semester VI

	7	6	5	4	ယ	2	
	Basic Management (Course-2)	Departmental Elective-II	Joining of Materials Lab	Composite Materials	Non-Ferrous Extractive Metallurgy	Steel Making	Joining of Materials
	PC	PE	PC	PC	PC	PC	PC
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	0	0	2	0	0	0	0
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24	ω	ω	2	4	4	4	4
23							

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Semester VII

	6	U	4	w	2		N. Z.
							Course Code
	Open Elective-I	Departmental Elective-V	Departmental Elective-IV	Departmental Elective-III	Minor Project	Training Seminar	Course Title
	OE	E	PE	PE	PC	PC	Category
	w	ډيا	دين	دن	0	1	T
	0	0	0	0	0	0	H
	0	0	0	0	6	4	P
18	3	u	w	w	3	3	Credits
23	w	w	w	ιυ	6	L's	Contact Hrs
18							Total Credit

Semester VIII

	5	4	(L)	
	Open Elective-II	Departmental Elective-VII	Departmental Elective-VI	Major Project
	OE.	AE	AE	PC
	w	w	w	0
	0	0	0	0
	0	0	0	 8
100	ω	w	w	9
27	ω	3	3	~
18				

Total Credits: 36+14+24+27+23+23+18+18=183

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

Curriculum structure For B. Tech Honours Degree

Semester V

J				7.	_	
		van V	Code		Course	
Dengrimental Elective-IX	Departmental Elective vax	The attendant Claritica VIII		CONSCIENCE	Course Title	
177	575	PE		0	Category	
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		C			-	
<	>	0			1	,
,	ذ.	Ü	J		Credits	
				5.5.1.0	H	Contact
					Credits	Total

در	0	0	دی	AE-II	
t	C	c	(,	AE-I	Advanced Elective-1 (from M. Tech. courses)

(Head of the Department) Prof. Upender Pandel

914. Kurzo Dr. Sreekumar Vadakke Madam

(DUGC Convener)

MINUTES OF THE 57th MEETING OF THE SPGB HELD ON 15th May, 2023

The 57th meeting of the SPGB was held on 15th May 2023 at 10:00 AM in the Old Senate Hall Prabha Bhawan.

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

Item No. 57-1.0	To confirm the minutes of 56 th meeting of the SPGB held on April 06, 2023.
	The minutes of the 56 th meeting of the SPGB were confirmed.
Item No. 57-1.1	To note the "Action Taken" on the decisions taken in the 56th meeting of the SPGB
5/*1.1	The SPGB noted the action taken report of 56 th meeting.
Item No. 57-2.0	Items for Consideration.
Item No. 57-3.1	To consider the addition of an external joint supervisor (Prof. O.P. Yadav, North Carolina Agriculture and Technical State University, NC, USA) of PhD student Mr. Paras Garg (2021RME9075) after the comprehensive exam.
	After detailed deliberation, SPGB approved the addition of the third external joint supervisor (Prof. O.P. Yadav, North Carolina Agriculture and Technical State University, NC, USA) of PhD student Mr. Paras Garg (2021RME9075) after the comprehensive exam. The thesis submission shall be only after one year from the date of the addition of the Joint supervisor as per the PG regulations,.
	A committee of the following members was constituted to review the existing provision for adding IInd & IIIrd supervisors before/after the comprehensive examination for the PhD candidates.
	(i) Prof. Suja George, Associate Dean (PG), Convener
	(ii) Dr. Dinesh Kumar, Department of Mechanical Engineering, Member(iii) Dr. Tarun Verma, Department of Electronics and Communication, Member
Item No. 57-3.2	To consider the matter regarding submission of PhD thesis (before 03 years) of Full-time (without scholarship) PhD student Mr. Vivek Sharma (2020RCP9048) registered in the Department of Computer Science and Engineering under the supervision of Dr. Ashish Kumar Tripathi and Dr. Himanshu Mittal (IGDTU).
	SPGB, after detailed deliberation, approved the submission of PhD thesis of Full-time (without scholarship) PhD scholar Mr. Vivek Sharma (2020RCP9048) as he has satisfactorily completed three academic sessions (six semesters) and has six publications in reputed Q1 and Q2 journals from his PhD work.

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Item No. 57-3.3	To consider the proposal received from the Centre for Energy and Environment to terminate the candidature of Ms. Megha Khatri (2022PCV5395).
Item No. 57-3.4	 SPGB, after detailed deliberation, decided that, (i) The scholarship of Ms. Megha Khatri (2022PCV5395) should be stopped immediately. (ii) A warning email and a postal letter may be sent to Ms. Megha Khatri (2022PCV5395) to direct her to join the Institute within 10 days of the notice; else, her candidature will be terminated from the Institute roles without further notice. (iii) A letter for recovery of the scholarship may also be sent to her if any scholarship has been awarded to her during her period of absence. To consider the request of Mr. Abhinav Meena (2021PES5311) to convert his candidature of M.Tech. from full-time to part-time.
	SPGB was apprised that Mr. Abhinav Meena has completed all the coursework up to the 3 rd Semester without any back. As per PG RR clause 6.5, he is eligible for part-time conversion subject to submission of NOC within time. His scholarship has been stopped since 26 th February 2023, when he joined as Junior Executive in Airport Authority.
	 SPGB, after detailed deliberation, decided that, (i) The ERP account of Mr. Abhinav Meena should be made inactive immediately. (ii) He may be asked to submit the NOC from his employer. (iii) SPGB further authorized Chairman SPGB to grant permission for the conversion of his M.Tech. Candidature status from full-time to part-time on submission of NOC.
	SPGB further directed that when students apply for conversion from full-time to part- time status, the DPGC conveners must inform the Academic section immediately, and the student ERP must be made inactive. The ERP shall be made active after conversion on submission of all required documents.
Item No. 57-3.5	To consider the procedure for filling the PhD Slot details and Research topics for PhD admissions by the Faculty members.
	SPGB discussed the matter and appreciated the procedure adopted for collecting information on PhD Slots and PhD topics of all faculty members for PhD admission. The SPGB suggested that the compiled information may also be sent to the DPGC conveners for their observation/comments before publishing the PhD admission advertisement.
Item No. 57-4.0	Item for ratification
Item No. 57-4.1	To ratify the case of late registration of Shri Vishal Bhaskar (2020PMT5275).
Item No. 57-5.0	SPGB noted the registration of Shri Vishal Bhaskar. Items for reporting
Item No. 57-5.1	To note the list of PhD students whose supervisors (Internal/External) were added/changed before the comprehensive examination.
	Noted.

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Item No.	Any other item with the permission of the Chair
57-6.0 Item No. 57-6.1	To consider the proposal received from the Centre for Energy and Environment to terminate the candidature of Mr. Sanket Chalia (2020PCV5368).
	SPGB, after detailed deliberation, decided that, (i) The scholarship of Mr. Sanket Chalia (2020PCV5368) should be stopped immediately.
	(ii) A warning email and letter through speed post may be sent to Mr. Sanket Chalia (2020PCV5368) to direct him to join the Institute within 10 days of the notice; else, his candidature will be terminated from the Institute roles without any further notice.
	(iii) A letter for recovery of scholarship may also be sent to him if any scholarship has been awarded during his period of absence.
Item No. 57-6.2	To consider the early submission of PhD Thesis (before three years) by Full Time PhD student Mr. Ayush Meena (ID: 2020RCE9521) registered in the Department of Civil Engineering.
14 A.	SPGB deliberated on the issue and observed that Mr. Ayush Meena (ID: 2020RCE9521 has completed five semesters on the closing of the current Semester. His initial date of registration is 8 th Feb. 2021. His comprehensive examination & pre PhD seminar date is 20 th and 21 st July 2022, respectively. He had requested early submission in Feb 2023, which was recommended by DREC and DPGC and earlier discussed in the 56 th SPGB. After deliberations, the matter was sent back to the department to explain explicitly how this matter is not a normal case and to justify the exception required since the PG rules RR 9.5.2 mentions that "the normal duration for submission of PhD thesis will be three
,	years." The matter has been again submitted from the department with the DPGC recommendation that the candidate has eight journal publications in Scopus-indexed journals, two submitted, four conference publications and one book chapter. However, SPGB observed that these are not in reputed Q1 or Q2 journals. Most of the SPGB members did not approve because of no outstanding contribution in his PhD work necessary for early submission in comparison to the normal period of three academic years. However, SPGB authorized Chairman SPGB and Associate Dean (PG) to decide the matter in consultation with Chairman Senate.
Item No. 57-6.3	To discuss the evaluation of M.Tech. Dissertation work.
	The M. Tech Dissertation thesis is mainly evaluated by an internal oral examination committee constituted by the candidate's thesis supervisor, and the thesis supervisor himself acts as the Convener of the Committee. The grade of the M. Tech. Dissertation is included in the calculation of the overall CGPA. Therefore, it was necessary to review the current evaluation method for a fair evaluation of the Dissertation work.
	SPGB discussed and decided to constitute a committee of the following members to recommend the procedure for the evaluation of M. Tech. Dissertation work:

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- (i) Prof. A.K. Vyas, Chairman
- (ii) Dr. Dinesh Kumar, Member
- (iii) Dr. Vivekanand, Member
- (iv) Dr. Anoop I. Shirkol, Member

SPGB also decided that the Senate agenda item No56-4.1 to clarify the weightage of distribution of MTE and ETE for M.Tech. dissertation will also be reviewed by this committee.

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

Associate Dean (PG)

Chairman SPGB

The meeting was attended by following members:

S. No.	Name	Department
1.	Prof. Dilip Sharma	Chairman, SPGB
2.	Prof. Jyotirmay Mathur	Dean, Academics
3.	Prof. R.K. Vyas	Nominee Chairman Senate
4.	Prof. Suja George	Associate Dean (PG)
5.	Dr. Sumit Khandelwal	Associate Dean (UG)
6.	Dr. Vivekanand	Convener DPGC, Centre for Energy & Environment
7.	Dr. Anoop I. Shirkol	On behalf of Convener DPGC, Department of Civil Engineering
8.	Dr. Yogesh Kumar Meena	Convener DPGC, Department of Computer Science & Engineering
9.	Dr. Tarun Varma	Convener DPGC, Department of Electronics & Communication Engineering
10.	Dr. Preeti Bhatt	Convener DPGC, Department of Humanities and Social Science
11.	Dr. Divesh Kumar	Convener DPGC, Department of Management Studies
12.	Dr. Varun Jindal	Convener DPGC, Department of Mathematics
13.	Prof. Tarush Chandra	Convener DPGC, Department of Architecture and Planning
14.	Dr. Sumanta Kumar Meher	Convener DPGC, Department of Chemistry
15.	Dr. Dinesh Kumar	Convener DPGC, Department of Mechanical Engineering
16.	Dr. Nisha Verma	Convener DPGC, Material Research Center
17.	Dr. P.V. Ramana	On behalf of Convener DPGC, National Centre for Disaster Mitigation & Management

Following members could not attend the meeting:

S. No.	Name	Department	
1.	. Prof. Rajeev Shringi Chairman, SUGB		
2.	Prof. Rakesh Jain	Ex-Chairman, SPGB	
3.	Dr. Mahesh Kothari	Professor & Coordinator TEQIP-III, CTAE Udaipur	
4.	Dr. Vijay Navaratna Nadakuduru	Convener DPGC, Metallurgical and Materials Engineering	
5.	Dr. Rahul Singhal	Convener DPGC, Department of Physics	
6.	Dr. Virendra Kumar Saharan	Convener DPGC, Department of Chemical Engineering	
7.	Dr. Praveen Kumar Agrawal	n Kumar Convener DPGC, Department of Electrical Engineering	

MINUTES OF THE 58th MEETING OF THE SPGB HELD ON 22nd June, 2023

The 58^{th} meeting of the SPGB was held on 22^{nd} June 2023vat 04:00 PM in the Old Senate Hall Prabha Bhawan.

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

Item No. 58-1.0	To confirm the minutes of 57 th meeting of the SPGB held on May 15, 2023. The minutes of the 57 th meeting of the SPGB were confirmed.	
Item No. To note the "Action Taken" on the decisions taken in the 57 th meeting of 58-1.1		
Item No. 58-2.0	The SPGB noted the action taken report of 57 th meeting. Items for Consideration.	
Item No. To consider the Conversion of Ph.D. program from Full Time to Part Ph.D. student Renu Agrawal (2019REC9533).		
American concerning of the state of the stat	SPGB after detailed deliberation, approved the Conversion of Ph.D. program of Renu Agrawal (2019REC9533) from Full Time to Part Time.	
Item No. 58-3.2	To consider the matter of Prof. Rajive Tiwari, Dept. of Electrical Engineering, MNIT Jaipur, act as co-supervisor in another Academic Institution (Rajasthan Technical University, Kota) to guide PhD student.	
	SPGB, after detailed deliberation, approved Prof. Rajive Tiwari, Dept. of Electrical Engineering, MNIT Jaipur, to act as co-supervisor of PhD student Shreya Upadhyay, Electrical Engineering Department, Rajasthan Technical University, Kota.	
Item No. 58-3.3	To consider the mercy request of Ph.D. student of Electrical Engineering department (admitted under Visvesvaraya Ph.D. Scheme of Govt. of India), Mr. Mohar Singh Meena (2022REE9550), to continue in Ph.D. program in the Odd Semester 2023-24 after the cancellation of his Ph.D. admission in Even Semester	
	SPGB after detailed deliberation, did not recommend the mercy request of Ph.D. student Mr. Mohar Singh Meena (2022REE9550) of the Electrical Engineering department to continue in his Ph.D. program in the Odd Semester 2023-24 after the cancellation of his Ph.D. admission in Even Semester 2022-23 (admitted under Visvesvaraya Ph.D. Scheme of Govt. of India), as per guidelines stipulated in PG RR 2.4 (6) and Ph.D. Admission Brochure Even Semester 2022-23 - 4.1-i(a):-	
Auto di managara da managar	"The selected candidate, who has completed all the examinations, including project/thesis examination and the viva voce before the date of registration but is	

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	unable to produce the certificate in proof of having passed and secured the minimum specified qualifying marks, may be considered for provisional admission. However, if admitted provisionally, they will be required to produce the evidence of their having passed (or at least appeared in) the qualifying degree examination by the last date of registration, failing which the admission may be cancelled."
Item No. 58-4.0	Any other item with the permission of the Chair
Item No.58-4.0	To consider the recommendation of the committee constituted vide order no.F.4/S-XVI-1/22-23-Acad-(SPGB)/2730 dated 19-06-2023 for the addition of II and III supervisor before/after the comprehensive examination in the PhD Program.
	The SPGB after detailed deliberation, recommended that "The addition of joint supervisors (Internal/External) may be made at any stage during the Ph.D. program of the candidate. However, the student shall be allowed to submit his/her thesis after one year of addition of the joint supervisors (Internal/External)."

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

Associate Dean (PG)

Chairman SPGB

The meeting was attended by following members:

S. No.	Name	Department	
1.	Prof. Dilip Sharma	Chairman, SPGB	
2.	Prof. R.K. Vyas	Nominee Chairman Senate	
3.	Prof. Suja George	Associate Dean (PG)	
4.	Dr. Sumit Khandelwal	Associate Dean (UG)	
5.	Prof. D. Boolehandani	Special Invitee	
6.	Dr. Sunanda Sinha	On behalf of Convener DPGC, Centre for Energy & Environment	
7.	Dr. Vinay Agarwal	Convener DPGC, Department of Civil Engineering	
8.	Dr. Yogesh Kumar Meena Convener DPGC, Department of Computer Science & Engineering		
9.	Dr. Tarun Varma	Convener DPGC, Department of Electronics & Communication Engineering	
10.	Dr. Preeti Bhatt	Convener DPGC, Department of Humanities and Social Science	
11.	Dr. Dinesh Kumar	Convener DPGC, Department of Mechanical Engineering	
12.	Dr. Bhagwati Sharma On behalf of Convener DPGC, Material Research Center		
13.	Dr. Praveen Kumar Agrawal		
14.	Dr. Vijay Navaratna Nadakuduru	Convener DPGC, Metallurgical and Materials Engineering	

Following members could not attend the meeting:

S. No.	Name	Department	
1	Prof. Rajeev Shringi	Chairman, SUGB	
2.	Prof. Rakesh Jain	Ex-Chairman, SPGB	
3.	Prof. Jyotirmay Mathur	Dean, Academics	
4.	Dr. Rahul Singhal	Convener DPGC, Department of Physics	
5.	Dr. Virendra Kumar Saharan	Convener DPGC, Department of Chemical Engineering	
6.	Dr. Divesh Kumar	Convener DPGC, Department of Management Studies	
7.	Dr. Varun Jindal	Convener DPGC, Department of Mathematics	
8.	Prof. Tarush Chandra Convener DPGC, Department of Architecture and Planni		
9.	Dr. Sumanta Kumar Meher Convener DPGC, Department of Chemistry		
10.	Prof. M.K. Shrimali	Convener DPGC, National Centre for Disaster Mitigation & Management	

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Minutes of 34th Meeting of Academic Affairs Committee (AAC)

The 34th meeting of the Academic Affairs Committee (AAC) was held on 23rd May 2023 at 05:00 PM in Group Discussion Room near the placement office for discussing the various issues. The following members attended the meeting:

- 1. Prof. Jyotirmay Mathur (Dean, Academics)
- 2. Prof. Rajeev Shringi (Chairman, SUGB)
- 3. Prof. Suja George (Associate Dean, PG)
- 4. Dr. Sumit Khandelwal (Associate Dean, UG)

Items No.	Particular				
34-1.1	To consider the issue of the Ph.D. student's absence from Invigilation duties during the Mid-Term Examination of Even Semester 2022-23 (I year UG) held from 08-04-2023 to 15-04-2023.				
	AAC discussed the matter case by case and decided to deduct scholarship according to the number of days absent from invigilation duty from the month of May 2023 onwards, for those students who have either not given any reason for absence or given a reason that is no admissible. The academic Section will inform the concerned Ph.D. Scholar through emainegarding the amount deducted from their scholarship. The list of such Ph.D. students is				
34-1.2	placed in Annexure-A. To consider the requests of Ph.D. students regarding reconsideration of deduction of their one-day assistantship/scholarship due to absence from Invigilation duties. AAC discussed the matter case by case and decided as follows:				
	S. No.	Name & ID	Reason of absence	Decision	
	Α.	Atirek Gaur (2020RMT9591)	He was on academic leave for his experimental work of Ph.D. (IIT Patna) with permission of his supervisor's from 25.01.2023 to 15.03.2023.	AAC considered his request and the scholarship deducted may be refunded.	
	В.	Himanshu Saini (2021REE9063)	He requested that he was present on the day of examination but forgot to the sign the attendance sheet. His presence and involvement throughout the exam duration can be verified from Dr. Priyanka Sihag and Dr. Shridev Devji (Department of Management Studies).	AAC considered his request and the scholarship deducted may be refunded.	
	C.	Jyoti Lakhera (2019RPY9124)	She was on medical leave from 28.02.2023 to 01.03.2023. She is requesting to consider her medical leave and not to deduct her institute assistantship. Medical certificate attached.	AAC considered her request and the scholarship deducted may be refunded.	

	D. Ramnivas Sharma (2020REE9534) Due to his Lab (Ph.D. related) work., he forgot to take invigilation duty on 4-3-2023.		
34-1.3	To consider the matter of Ms. Emelda Nenson to appear for End Term Exam of Even Semester 2022-23 after completion of stipulated time (On Medical grounds) of the Department of Management Studies.		
	AAC, after detailed deliberation, recommended granting permission to Ms. Emelda Nenson to appear for special End Term Examination after completion of stipulated time (on Medical grounds).		
34-1.4	To consider the matter of Ph.D. applicants permitted to change their status for Ph.D. entrance examination.		
	A few Ph.D. applicants had made mistakes while filling out the online applications and have requested to change their status (Institute staff to professional/Full time with own scholarship to Full Time with Institute scholarship/Full Time Sponsored to Full Time with Institute Scholarship). AAC decided that such conversion may be permitted on the verification of their eligibility by the DSC of the Department and recommended by DPGC.		
34-1.5	To consider the matter of Ph.D. research scholar to deliver an online end semester progress presentation. AAC discussed the matter and allowed Ms. Maharshi Sharma (2020RHS9040) and Ms. Priya Kaith (2020REC9004) to deliver an online end-semester progress presentation on maternity-related grounds.		
34-1.6	To consider to review the admission procedure for Ph.D. programs at the Institute. The AAC discussed the present procedure of the admission for Ph.D. programs and decided to constitute the following committee to review the rules and procedures related to Ph.D admissions at the Institute and develop a proposal of the same:		
	 Prof. Rajesh Kumar Convener Associate Dean PG Member Dr. Kapil Shukla Member Dr. Niraja Saraswat Member Dr. Sumanta Mehar Member Dr. Divesh Kumar Member Dr. Bhavna Shrivastava Member 		
34-2.0	Any other item with permission of chair.		

(Jyotirmay Mathur) Dean Academic

> (Suja George) ADPG

Prof. Rajeev Shringi (Chairman, SUGB)

(Sumit Khandelwal) ADUG

Annexure-G

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY Office of Dean Academic

Minutes of Unfair Means Committee Meeting held on May 23rd, 2023

A meeting of the Unfair Means Committee was held on May 23rd 2023 at 04:30 PM in the GD room near placement office Prabha Bhawan, MNIT Jaipur. Following members were present in the meeting:

1.	Prof. Jyotirmay Mathur	Dean, Academic
2.	Prof. Rajeev Shringi	Chairman SUGB
	Prof. Suja George	Associate Dean (PG & PhD.),
		Associate Dean (UG), Senate Nominee
5.	5. Dr. Dinesh Goplani Head, Department Computer Science and Engine	
6.	Dr. Neha Shrivastava	Assistant Professor Department of Civil Engineering

Following unfair means cases were reported and forwarded during the End Term examinations held from 28th April to 6th May 2023, by the concerned course coordinator/invigilator/flying squads to the Unfair Means Committee.

S. No.	Name of the student	Course details	Examination
1.	Ms. Komal Verma (2020UCE1704)	CET 325 Design of Masonry Structures	6 th Semester End Term Examinations
2.	Manjeet Singh (2019UCP1247)	CST440 Advanced topics in data bases (ATD).	8 th Semester End Term Examinations

The Committee discussed the cases individually in the meeting and the decision /recommendations of the committee are as under:

Both the above students were called before the committee to give their clarification/comments about the unfair means used by them.

The committee found that Shri Manjeet Singh was carrying his mobile phone during the examination when he was caught by the concerned course coordinator/invigilator/flying squads.

Ms. Komal Verma was using the IS code book allowed to her during the examination which contained other reading material of the said examination when she was caught by the concerned course coordinator/invigilator/flying squads.

Recommendation: The committee decided that the End Term Examination of respective courses of both the above two students' stands cancelled and they will be awarded 'FP' grade. This decision is in line with the decisions taken earlier for similar cases.

It was decided that the information regarding indulging in unfair means by the students will be communicated to their parents. It was also decided that any such repeat offense by these students will attract severe penalty which may range up to expulsion (limited period/permanent) of the students from the Institute. Further, the decision of the committee will be communicated to all the students of the Institute.

The meeting was concluded with thanks to the chair.

(Jyotirmay Mathur) Dean Academic

(Sumit Khandelwal) ADUG Prof. Rajeev Shringi (Chairman, SUGB)

Dr. Dinesh Goplani
Head, Department Computer
Science and Engineering

(Suja George) Associate Dean (PG & PhD.)

Dr. Neha Shrivastava Assistant Professor, Department of Civil Engineering

MINUTES OF THE 40th MEETING OF THE SUGB HELD ON May 29, 2023

The 40th Meeting of SUGB was held on May 29, 2023 at 04:00 PM in the Old Senate Hall, Prabha Bhawan.

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

Item No. 40-1.0	0 To confirm the minutes of the 39th meeting of the SUGB held on March 28, 2023.		
	The SUGB confirmed the minutes of 39th meeting of the SUGB held on March 28, 2023.		
Item No. 40-2.0	W 97 17 7000 A 700		
	Action taken was noted.		
Item No. 40-3.0	Items for Consideration.		
Item No. 40-3.1	To consider the new Scheme and Syllabus of UG programs.		
	Scheme and Syllabus of all the UG programs were discussed and it was noted the following:		
	 Scheme of I and II semesters should not be more than 25 credits each. Consent should be taken from the offering department for the Elective courses floated by the department. Minor and Major projects offered in VII and VIII semesters as programme core category will not allow the students to go for internship, so it needs to be discuss that it should be made mandatory or optional. Some of the departments have not given the names of Programme Electives and Advance Electives. 		
	5. Scheme of the some of the departments are not in the proper format. The SUGB decided to discuss all the above points in the respective DFB's and come up with proper scheme and syllabus.		
Item No. 40-3.2	To consider the proposal received regarding the course Basic Electronics and Electrical Engineering of B.Tech. First year.		
	The proposal was discussed at length and it was decided to send to the Senate for directions.		
Item No. 40-3.3	To consider the revision of the course Basic Management offered to UG students.		
	The Department of Management Studies may offer Basic Management course in 02 variants as per the requirement of various departments and students may opt the course before V Semester		

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Item No. 40-3.4	To consider the proposal of Minor Program submitted by the Department of Management Studies.	
	The SUGB sent back the proposal directing the department to discuss in the Curriculum Development Workshop.	
Item No.	To consider the proposal received from the Department of Architecture and Planning regarding minimum passing marks for courses taught in B.Arch.	
40-3.5	The SUB recommended that the courses offered by the Department of Architecture and Planning the minimum passing marks shall be 45% and the courses offered by the other departments to the students of Architecture and Planning shall have minimum 35% passing marks. Supplementary Examinations may be conducted at the end of odd and even semesters for the courses having check point or pre requisite requirements.	
Item No. 40-4.0	Reporting Items	
ltem No. 40-4.1	To report the list of students permitted for internship during Academic Year 2022-23 (Ever Semester). Noted.	
Item No. 40-5.0	Any other item with permission of chair.	
FShmish	Associate Dean (UG)	

Chairman SUGB

The meeting was attended by following members:

Sl. No.	Name of Faculty	Designation	
Í,	Prof. Rajeev Shringi	Chairman SUGB (attended ONLINE)	
2.	Prof. Dilip Sharma	Chairman SPGB	
3.	Prof. Jyotirmay Mathur	Dean, Academic	
4.	Prof. Suja George	Associate Dean PG	
5.	Dr. Sumit Khandelwal	Associate Dean UG	
6.	Dr. Nivedita Kaul	Nominee, Chairman Senate	
7.	Prof. Rina Surana	Convener DUGC, Department of Architecture and Planning	
8.	Dr. Himanshu Arora	Representing Convener DUGC, Department of Civil Engg.	
9.	Dr. Parul Mathuria	Convener DUGC, Department of Centre for Energy and Environment	
10.	Dr. Dipaloy Datta	Convener DUGC, Department of Chemical Engineering	
II.	Dr. Abbas Raja Naziruddin	Convener DUGC, Department of Chemistry	
12.	Dr. Mahipal Jadeja	Representing Convener DUGC, Department of Computer Science and Engineering	
13.	Dr. Anil Swarnkar	Convener DUGC, Department of Electrical Engineering	
14.	Dr. Ravi Kumar Maddila	Representing Convener DUGC, Department of Electronics and Communication Engineering	
15.	Dr. Priyanka Sihag	Convener DUGC, Department of Management studies	
16.	Dr. Santosh Chaudhary	Convener DUGC, Department of Mathematics	
17.	Dr. Harlal Singh Mali	Convener DUGC, Department of Mechanical Engineering	
18.	Dr. Sreekumar Vadakke Madam	Convener DUGC, Department of Metallurgical and Materials Engineering	
19.	Dr. Srinîvasa Rao Nelamarri	Convener DUGC, Department of Physics	

Following members couldn't attend the meeting:

S.No.	Name	Department
,	Prof. Rakesh Jain	Ex-Chairman, SPGB
2.	Prof. Ravindra Nagar	Previous Chairman, SUGB
3.	Dr. Nidhi Sharma	Convener DUGC, Department of Humanities and Social Science
4.	Dr. Kamakshi Pandey	Convener DUGC, Department of Materials Research Centre
5.	Ms. Sukriti Bohra (2019UEC1002)	Student Nominee
6.	Mr. Aryan Sharma (2020UAR1005)	Student Nominee

MINUTES OF THE 41st MEETING OF THE SUGB HELD ON June 22, 2022

The 41st Meeting of SUGB was held on June 22, 2023 at 04:00 PM in the Old Senate Hall, Prabha Bhawan.

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

Item No. 41-1.0	To confirm the minutes of the 40th meeting of SUGB held on May 29, 2023.		
	The SUGB confirmed the minutes of 40 th meeting of the SUGB held on May 29, 2023.		
Item No. 41-2.0	To note the "Action Taken" on the decisions taken in the 40th meeting of the SUGB Action taken was noted.		
Item No. 41-3.0 Items for Consideration.			
Item No. 41-3.1	To consider the new Scheme and Syllabus of UG programs offered by the Institute as per National Education Policy (NEP-2020).		
	ADUG appraised the board about the observations of the Senate of the Institute, in its 50 th meeting, regarding the proposed new scheme/structure of the UG programs offered by the Institute. The SUGB discussed all the schemes of the UG programs. The SUGB approved the following new Scheme and Syllabus of the UG programs:		
	 Architecture and Planning Chemical Engineering Computer Science and Engineering Electrical Engineering Electronics and Communication Engineering Mechanical Engineering Metallurgical & Materials Engineering 		
	For remaining UG programs SUGB authorized Chairman, SUGB to approve and recommend the revised scheme for the approval of the Senate.		
Item No. 41-4.0	o. 41-4.0 Reporting Items		
Item No. 41-4.1	To report the list of students permitted for internship during Academic Year 2023-24 (Odd Semester).		

Chairman SUGB

Associate Dean (UG)

The meeting was attended by following members:

Sl. No.	Name of Faculty	Designation
1,	Prof. Rajeev Shringi	Chairman SUGB
2.	Prof. Suja George	Associate Dean PG
3.	Dr. Sumit Khandelwal	Associate Dean UG
4.	Prof. Rina Surana	Convener DUGC, Department of Architecture and Planning
5.	Dr. Dipaloy Datta	Convener DUGC. Department of Chemical Engineering
6.	Dr. Abbas Raja Naziruddin	Convener DUGC, Department of Chemistry
7.	Dr. Ramesh Babu Battula	Convener DUGC, Department of Computer Science and Engineering
8.	Dr. Anil Swarnkar	Convener DUGC, Department of Electrical Engineering
9.	Dr. Ravi Kumar Maddila	Representing Convener DUGC, Department of Electronics and Communication Engineering
10.	Dr. Nidhi Sharma	Convener DUGC, Department of Humanities and Social Science
State of the state	Dr. Bhagwati Sharma	Representing Convener DUGC, Department of Materials Research Centre
12.	Dr. Santosh Chaudhary	Convener DUGC, Department of Mathematics
13.	Dr. Harlal Singh Mali	Convener DUGC, Department of Mechanical Engineering
14.	Dr. Srinivasa Rao Nelamarri	Convener DUGC, Department of Physics

Following members couldn't attend the meeting:

S.No.	Name	Department
	Prof. Dilip Sharma	Chairman SPGB
2.	Prof. Jyotirmay Mathur	Dean, Academic
3.	Dr. Nivedita Kaul	Nominee, Chairman Senate
4	Prof. Ravindra Nagar	Previous Chairman, SUGB
5.	Prof. B.L. Swami	Representing Convener DUGC, Department of Civil Engg
6.	Dr. Parul Mathuria	Convener DUGC, Department of Centre for Energy and Environment
7.	Dr. Priyanka Sihag	Convener DUGC, Department of Management studies
8.	Dr. Sreekumar Vadakke Madam	Convener DUGC, Department of Metallurgical and Materials Engineering
9,	Ms. Sukriti Bohra (2019UEC1002)	Student Nominee
10.	Mr. Aryan Sharma (2020UAR1005)	Student Nominee