

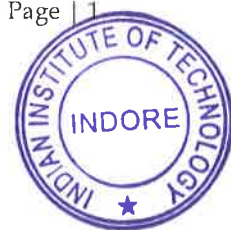


Indian Institute of Technology Indore

Minutes of the 31st meeting of the Senate held on 11 November 2022 (Friday), 2.00 p.m.
at Maitreyi Seminar Hall, IIT Indore.

Following members attended the meeting:

Chairperson		
1	Professor Suhas S. Joshi	Director, IIT Indore
External Experts		
2	Prof. Ajay Kumar Jain (present online)	Professor, Management Development Institute, Gurgaon
Deans		
3	Dr. Devendra Deshmukh	Dean, Academic Affairs
4	Prof. Pritee Sharma	Dean, Administration
5	Prof. Avinash Sonawane	Dean, International Relation
6	Prof. Manish Kumar Goyal	Dean of Infrastructure Development
7	Prof. I. A. Palani	Dean, Research and Development
8	Dr. Srivathsan Vasudevan	Dean, Student Affairs
9	Prof. Abhishek Srivastava	Dean, Faculty Affairs
Head of Departments		
10	Dr. Abhishek Rajput	HOD, Civil Engineering
11	Dr. Somnath Dey	HOD, Computer Science and Engineering
12	Dr. Vivek Kanhangad	HOD, Electrical Engineering
13	Prof. Santosh K. Sahu	HOD, Mechanical Engineering
14	Dr. Vinod Kumar	HOD, Metallurgy Engineering and Materials Science
15	Prof. Amit Kumar	HOD, Biosciences and Biomedical Engineering
16	Prof. Abhirup Datta	HOD, Astronomy, Astrophysics and Space Engineering
17	Prof. Biswarup Pathak	HOD, Chemistry
18	Dr. Niraj Kumar Shukla	HOD, Mathematics
19	Dr. Pankaj R. Sagdeo	HOD, Physics
20	Prof. Nirmala Menon	HOD, Humanities and Social Science
Heads of Centers and Services		
21	Prof. Mukesh Kumar	Head, Center of Advanced Electronics
22	Dr. Neminath Hubballi	Head, Computer and Information Technology Center
23	Prof. Sandeep Chaudhary	Professor-Incharge, Center for Rural Development and Technology
24	Prof. Apurba K. Das	Head, Sophisticated Instrumentation Center
25	Prof. Aruna Tiwari	Head, Counselling Services



26	Dr. Pavan Kumar Kankar	Head, Training and Placement
Professors		
27	Prof. Ram Bilas Pachori	Electrical Engineering
28	Prof. Vimal Bhatia	Electrical Engineering
29	Prof. Suman Mukhopadhyay	Chemistry
30	Prof. Krushna R. Mavani	Physics
31	Prof. Sarika Jalan	Physics
32	Prof. Sandeep Chaudhary	Civil Engineering
33	Prof. Avinash Sonawane	Biosciences and Biomedical Engineering
34	Prof. Santosh Kumar Vishvakarma	Electrical Engineering
35	Prof. Shaibal Mukherjee	Electrical Engineering
36	Prof. Vipul Singh	Electrical Engineering
37	Prof. Prabhat Kumar Upadhyay	Electrical Engineering
38	Prof. Trapti Jain	Electrical Engineering
39	Prof. Mukesh Kumar	Electrical Engineering
40	Prof. Manish Kumar Goyal	Civil Engineering
41	Prof. Neelima Devarakonda Satyam	Civil Engineering
42	Prof. I. A. Palani	Mechanical Engineering
43	Prof. Santosh Kumar Sahu	Mechanical Engineering
44	Prof. Ritunesh Kumar	Mechanical Engineering
45	Prof. Dhinakaran Shanmugam	Mechanical Engineering
46	Prof. Aruna Tiwari	Computer Science and Engineering
47	Prof. Abhishek Srivastava	Computer Science and Engineering
48	Prof. Kapil Ahuja	Computer Science and Engineering
49	Prof. Abhirup Datta	Astronomy, Astrophysics and Space Engineering
50	Prof. Amit Kumar	Biosciences and Biomedical Engineering
51	Prof. Prashant Kodgire	Biosciences and Biomedical Engineering
52	Prof. Sk. Safique Ahmad	Mathematics
53	Prof. Apurba Kumar Das	Chemistry
54	Prof. Sampak Samanta	Chemistry
55	Prof. Sanjay Kumar Singh	Chemistry
56	Prof. Biswarup Pathak	Chemistry
57	Prof. Nirmala Menon (present online)	Humanities and Social Sciences
58	Prof. Pritee Sharma	Humanities and Social Sciences
59	Prof. Ruchi Sharma	Humanities and Social Sciences
60	Prof. Rajesh Kumar	Physics
61	Prof. Sudeshna Chattopadhyay	Physics
62	Prof. Parasharam Maruti Shirage	Metallurgy Engineering and Materials Science
63	Prof. Swadesh Kumar Sahoo	Mathematics
64	Prof. Raghunath Sahoo	Physics
Other Authorities		
65	Dr. Lalit Borana	Chief Warden
66	Dr. Sharad Gupta	Convener, Health Center Advisor Committee
67	Dr. Anand Petare	Workshop Superintendent, Central Workshop
Special Invitees		
68	Dr. Eswara Prasad Korimilli	Associate Dean, Academic Affairs (PG & Ph.D)
69	Prof. Lakshminarayanan Samavedham	NUS Singapore (External expert for B.Tech Chemical Engineering)-Online



70	Dr. Amod C. Umarikar	Head, CEVITS
71	Dr. Suman Majumdar	DUGC-AASE
72	Dr. Manavendra Mahato	DPGC-Physics
73	Dr. Ankhi Roy	DUGC-Physics
74	Mr. Rajesh Kumar	Assistant Librarian
75	Mr. NeeraJ Kumar	Assistant Registrar, Academic Affairs
76	Mr. Tapesb Parihar	Superintendent, Academic Office
77	Mrs. Bindu Suresh	Jr. Superintendent, Academic Office
Secretary		
78	Mr. S. P. Hota	Registrar, IIT Indore
Leave of absence:		
1	Prof. Himanshu Rai	Director, IIM Indore
2	Mr. B Anil Baliga	Ex Executive Vice President, Commercial Vehicles Ltd, VE
3	Prof. Abhiram G. Ranade	Professor, Department of Computer Science and Engineering, IIT Bombay
4	Shri Shankar V. Nakhe	Director, RRCAT
5	Prof. Anand Parey	Dean, Resources Generation
6	Dr. Indrasen Singh	Head, Center of Futuristic Defense and Space Technology
7	Prof. Narendra S. Choudhary	Computer Science and Engineering
8	Prof. Neelesh Kumar Jain	Mechanical Engineering
9	Prof. Abhinav Kranti	Electrical Engineering
10	Prof. Rajneesh Misra	Chemistry
11	Prof. Subhendu Rakshit	Physics
12	Prof. G. S. Murthy	Biosciences and Biomedical Engineering
13	Prof. Bhupesh Kumar Lad	Mechanical Engineering
14	Prof. Preeti Anand Bhobe	Physics

ITEM 31.1: Welcome and Opening remarks by the Chairman of the Senate.

The Chairman, Senate welcomed all the members and special invitees to the meeting.

He also welcomed, Prof. Abhishek Srivastava and Dr. Vivek Kanhangad by virtue of their position as Dean, Faculty Affairs and Head, Department of Electrical Engineering, respectively.

The Chairman emphasized on the importance of 31st meeting of the Senate as proposals for initiation of six new academic programs were part of the agenda for consideration of the Senate.

ITEM 31.2: Confirmation of the minutes of the 30th Meeting of Senate held on July 21, 2022.

The Senate confirmed the Minutes of its 30th Meeting of Senate held on July 21, 2022.



ITEM 31.3: **Action Taken Report (ATR) on minutes of 30th Meeting of Senate held on July 21, 2022.**

The Senate noted the actions taken on the decisions of the 30th Meeting of Senate held on July 21, 2022

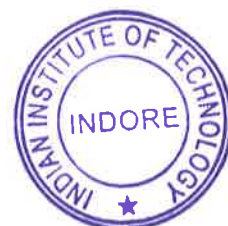
ITEM 31.4: **Discussion on the restructuring of UG Curriculum.**

The curriculum for the academic programs of IIT Indore were revised last in the Academic Year 2014-15. In the Deans meeting held on 30th March, 2022, it was discussed that there is a need to update the curriculum in line with industrial and technological developments and to incorporate features of NEP-2020. A committee was formed to review the curriculum. The first draft of the revised structure was deliberated in the Heads and Dean's meeting held on 22nd June 2022. The structure was revised and further discussed in all the departments in detail. The updated proposal is presented here for restructuring of the curriculum of UG programs in view of guidelines of the National Educational Policy (NEP)-2020 for developing the multidisciplinary interest among the students, and creating hands-on training and experiential learning with more laboratory experiments, internship, and fieldworks and so on.

The proposal was deliberated with the following core points:

- a) The range of total credits for the 4 years UG curriculum for each department will be 156-160.
- b) Departments will overhaul and restructure the syllabi of courses of their programs. For example, some of the advance topics may be included as the Elective Courses. Departments may form specific committees to frame the courses and syllabi for each semester including core courses and elective courses.
- c) The course structure may be shared with the Student Gymkhana and Alumni for their feedback, so that the structure incorporated the current industrial needs and career prospective of the students.
- d) The proposed restructured UG Curriculum will be applicable from Academic Year 2023-24 and the possibility of implementation from Spring Semester 2023 for the existing students may also be explored.

The illustrative proposed structure for the UG program is given below.



Tentative Program structure of MEMS department																										
		Basic Sciences (BS)				Basic Engineering (BE)		Basic Engineering modules (Flexible). Any two from the below			Labs (BS+BE)		Hands on	HSS			Department			Inst. open electiv e	Number of credits	Credit bank				
		M	P	C	B	ME	EE	CS	Electr onics	Therm o	Material s	Scd	CS	MS	Eng.	Eco.	Flex.	DC	DE	DL						
1st year	1st Sem	1(4)	1(3)	1(3)		1(2)	1(2)				1(1)+1(1)				1(2)		1(1)				19	Students can accumulate credits into the credit bank by doing small 1 or 2 credit institute open elective courses offered by sciences, engineering, humanities, and centers.				
	2nd Sem	1(3)			1(3)			1(2)	1(1)	1(1)	1(1)		1(1.5)	1(4)		1(2)	1(1)				18.5					
2nd year	3rd Sem	1(4)																4	1	2	0			22	Immersion program	1(1)
	4th Sem	1(3)																3	1	2	1			21		
3rd year	5th Sem															ENV 1(3)		4	1	1	1	22.5	Internship - 1	1(1)		
	6th Sem																	4	2	1	1	22.5	Internship - 2	1(1)		
4th year	7th Sem	BTP (16) + Internship-1 (1) + Internship-2 (1) [Internship 1 can be accumulated to the credit bank]																			18	Entrepreneur ship		1(2)		
	8th Sem																	0	2		3	15	Design thinking		1(2)	
	Number courses	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	3	15	7	6	6					
	Credits	14	3	3	3	2	2	2	1	0	1	2	1.5	4	2	2	5	45	21	9	18	158.5				

The senate discussed and in-principle approved the restructuring of the UG curriculum following the above suggestions for implementation.

ITEM 31.5: Proposal for new UG and PG Program

31.5.1: B.Tech. program in Chemical Engineering.

The Institute is expanding its academic programs and has received inputs from several experts to consider Chemical Engineering as one of the UG programs. A committee was formed, including external experts, to deliberate on starting Chemical Engineering program. Dr. Eswar Prasad, convener of the committee, presented the proposal of B.Tech. Program in Chemical Engineering. One of the external experts, Prof. Lakshminarayanan Samavedham, who participated in development of the program structure was present on-line, emphasized on the importance of the core subject, correct content, and right pedagogy.

The basic core courses of the program, following revised UG curriculum, are given below:

Department Core – Semester wise

Semester 3 1. Chemical Engineering Thermodynamics 2. Transport Phenomena 3. Materials Science for Chemical Engineers 4. Chemical Process Calculations	Semester 4 1. Fluid Mechanics (Machinery) 2. Heat & Mass Transfer (application based) 3. Separation processes (Unit operations)
Semester 5 1. Chemical Reaction Engineering 2. Fluid Particle Mechanics 3. Biochemical Engineering 4. Chemical Process synthesis	Semester 6 1. Computer-Aided Process Equipment Design (Detailed design) 2. Process Dynamics, Instrumentation & Control 3. Chemical Technology 4. Plant design and Economics

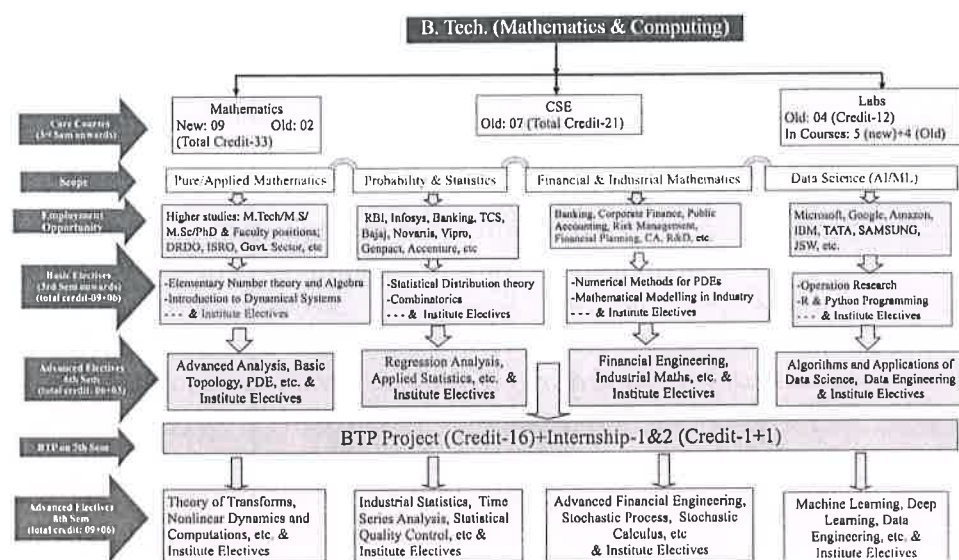
The Senate discussed and in-principle approved the B.Tech. program in Chemical Engineering to be started from the Academic Year 2023-24 with an initial seat intake of 40 students.

Syllabi of the courses will be discussed in the subsequent meetings of the Senate, subject to the recommendations of the Senate Under Graduated Committee (SUGC).

31.5.2: B.Tech. program in Mathematics and Computing.

In-line with the vision of expanding the academic programs offered, a proposal was received from Department of Mathematics to start a UG program in Mathematics and Computing. A committee with internal and external expert was formed to deliberate on the proposal and take inputs from various stakeholders including the industry requirements. The convener of the committee, Head of Department of Mathematics, presented the proposal for B.Tech. Program in "Mathematics and Computing". The HOD-CSE and HOD-Mathematics has agreed to teach some of the courses jointly to students from both the branches for an initial period.

The core structure of the program and its scope, following the revised UG curriculum, is given below:



The Senate discussed the proposal and suggested the following:

- Course **MA 3XX: Monte-Carlo Simulation** should be renamed in boarder perspective after checking overlapping of the syllabus with the course CS 422/622: Numerical Simulation. However, courses need to be cross-checked with courses of Computer Science and Engineering department, before finalizing the course structure.
- In each semester a balance should be maintained between the courses of Mathematics and Computer Science.

The Senate discussed and in-principle approved the B.Tech. program in Mathematics and Computing with above suggestions and modifications to start the program from Academic Year 2023-24 with an initial seat intake of 40 students.

Syllabi of the courses will be discussed in the subsequent meetings of the Senate, subject to the recommendations of the Senate Under Graduated Committee (SUGC).

31.5.3: B.Tech. program in Engineering Physics.

The department of Physics proposed to start a UG program in "Engineering Physics". A committee of external and internal experts was formed to deliberate the proposal and take input from industry and academia. Head, Department of Physics presented the proposal of B.Tech. Program in "Engineering Physics". The UG program in "Engineering Physics" and "Space Science and Engineering" will have common courses in 3rd and 4th Semester and will be taught jointly by Department of Physics and Department of Astronomy, Astrophysics and Space Engineering.

The basic core courses of the program, following the revised UG curriculum, are given below:

3 rd Semester			
Course Code	Course Name	(L-T-P)	Credit
ZZXXX	Course I for minor program	X-X-X	3
MA 203	Complex analysis and Differential Eqs-II	3-1-0	4
PH 201	Classical Mechanics	2-1-0	3
PH 241	Wave Phenomena and Optics	2-1-0	3
PH 291	Electronics-I	2-1-0	3
PH 221	Fundamental Concepts of Solid State Engineering	2-1-0	3
PHXXX	Elective-I	2-1-0	3
PH 293	Physics Lab-II (General Physics Lab)	0-0-3	1.5
PH 295	Electronics Lab-I	0-0-3	1.5
		13-6-6	22/25

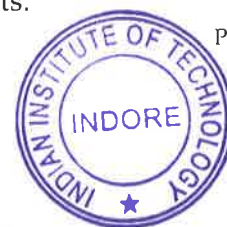
4 th Semester			
Course Code	Course Name	(L-T-P)	Credit
ZZXXX	Course II for minor program	X-X-X	3
MA 204	Numerical Methods	2-0-2	3
PH 210	Quantum Mechanics-I	2-1-0	3
PH 222	Thermal Physics	2-1-0	3
PH 290	Electronics -II	2-1-0	3
PH 301	Electrodynamics	1-1-0	2
PHXXX	Elective -II	2-1-0	3
PH 292	Electronics Lab-II	0-0-3	1.5
IE XXX	Open elective -I	2-1-0	3
		13-6-5	21.5/24.5

5 th Semester			
Course Code	Course Name	(L-T-P)	Credit
ZZXXX	Course III for minor program	X-X-X	3
PH 361	Nuclear Science and Engineering	3-1-0	4
PH 311	Quantum Mechanics - II	2-1-0	3
PH 313	Advanced Classical Mechanics	1-0.5-0	1.5
PH 351	Topics in Mathematical Physics	1-0.5-0	1.5
PH XXX	Multiscale Modelling	2-0-2	3
PH XXX	Elective-III	2-1-0	3
PH 391	Physics lab III (Advanced Physics Lab)	0-0-3	1.5
IEXXX	Open elective -II	2-1-0	3
		13-5-5	20.5/23.5

6 th Semester			
Course Code	Course Name	(L-T-P)	Credit
PH 322	Cooperative Phenomena in Solids	2-1-0	3
PH 320	Statistical Mechanics	2-1-0	3
PH 340	Atomic and Molecular Spectroscopy	2-1-0	3
PH 390	UG seminar	0-1-0	1
PH XXX	Elective-IV	2-1-0	3
PH XXX	Elective-V	2-1-0	3
PH 392	Physics Lab IV (Solid State Engineering Lab)	0-0-3	1.5
PH 394	Physics lab V (Spectroscopy and Microscopy)	0-0-3	1.5
IE XXX	Open elective -III	2-1-0	3
		12-7-4	22

The senate discussed the proposal and provided the following suggestion:

- The credits for course PH 361 Nuclear Science and Engineering may be reduced. However, department may re-look into the credit structure of the courses to reduce 4 credit courses up to 3 credits.



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The Senate discussed and in-principle approved the B.Tech. program in Engineering Physics along with above suggested modifications to offer the program from Academic Year 2023-24 with an initial seat intake of 20 seats. Syllabus of the courses will be discussed in the subsequent meetings of the Senate, subject to the recommendations of the Senate Under Graduated Committee (SUGC).

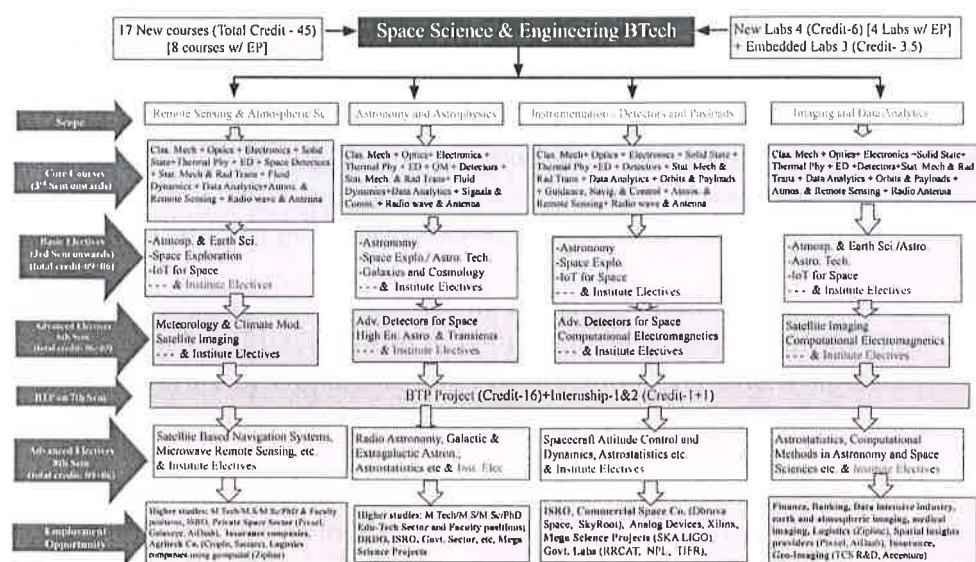
31.5.4:

B.Tech. program in Space Science and Engineering

Department of Astronomy, Astrophysics and Space Engineering proposed to start a UG program in Space Science and Engineering that will train a manpower required in expanding Space industry. A committee was formed to deliberate on the proposal and take inputs from different stake holders including the industry readiness and requirements. Head, Astronomy, Astrophysics and Space Engineering presented the proposal of B.Tech. Program in "Space Science and Engineering".

The UG program in "Engineering Physics " and "Space Science and Engineering" will have common courses in 3rd and 4th Semester and will be taught jointly by Department of Physics and Department of Astronomy, Astrophysics and Space Engineering.

The core structure of the program and its scope following the revised UG curriculum, is given below:



The proposal was discussed by the Senate and it was approved in-principle to offer the program from Academic Year 2023-24 with an initial seat intake of 20 seats, with the following suggestions:

- Collaboration with Biology and Chemistry may be explored.
- Engineering component should be well taken care, along with science part.

- c) Explore and review the job opportunity specially in India, comparatively with the programs run in other established science institutes.

Syllabi of the courses will be discussed in the subsequent meetings of the Senate, subject to the recommendations of the Senate Under Graduated Committee (SUGC).

31.5.5: M.Tech. program in Applied Optics and Laser Technology

IIT Indore in collaboration with Raja Ramanna Centre for Advanced Technology (RRCAT) Indore proposed to start a multidisciplinary masters program in Applied Optics and Laser Technology. The program will skill manpower in lasers and optics which are required in advanced industry and in research. A joint committee of experts from IIT Indore and RRCAT was formed to deliberate and propose the program considering the industry requirements and recent advances in research. Dean, Research and Development IIT Indore presented the proposal of M.Tech. Program in "Applied Optics and Laser Technology" that will be offered in collaboration (RRCAT) Indore.

The basic core courses of the program are given below

Semester-I			Semester-II		
Course Code	Course Title	Credit	Course Code	Course Title	Credit
Core -1 (AA)	Advanced Optics	3	Core -5 (PHY)	Principles and applications of Optical Spectroscopy	3
Core -2 (PHY)	PH 745 Laser Physics	3	Core -6 (ME)	Laser Based Measurements and Micro Manufacturing	3
Core -3 (ME)	Laser Material Processing	3	Core -7 (BSBE)	Biophotonics and Optical Imaging Techniques	3
Core 4 (MEMS)	MM 645 Multiphysics modelling	3	Elective-2		3
Elective-1		3	Elective-3		3
	PG seminar course	2	Elective-4		3
HS 641	English Communication		Total Credit		18
Total Credit		17			

The senate discussed about the proposal gave following inputs:

- The proposal to be shared with faculties from Departments involved in the program. The feedback from the faculties be incorporated while designing the syllabus.
- Include B.E./B.Tech. degree programs in Aerospace Engineering, Space Science and Engineering, and Materials Science in Minimum Educational Qualification (MEQ). Include respective GATE papers in the Qualifying Examination (QE).
- Courses on Embedded Systems may be included.

Dean R & D, informed that this program will be restricted only to Indian nationals.

The Senate in-principle recommend the M.Tech. program in Applied Optics and Laser Technology with above suggestions and modifications to the Finance Committee and Board of Governors. The program will be offered from Academic Year 2023-24 with an initial intake of 15 TA students.

Syllabi of the courses will be discussed in the subsequent meetings of the Senate, subject to the recommendations of the Senate Post Graduated Committee (SPGC).

31.5.6:

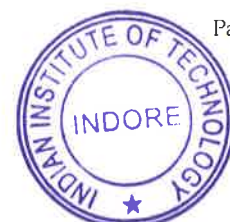
Executive M.Tech. program

An industry has requested PG programs to upskill the employees with flexibility in courses which are relevant to the industry requirements. A proposal for MTech for executives from PSU was received. Based on this a proposal for Executive M.Tech. was presented by Dean, Academic Affairs. A Web-based Executive M.Tech. program in Mechanical Engineering Design, is a customized degree programs for the working executives from Industries/ PSUs/ R&D Organization. A basic structure of the program with trimester system is presented below.

COURSES AND LECTURE DELIVERY		
- Minimum number of core courses : 4 - Maximum number of courses : 10 - Lecture time : 4 PM to 7 PM - Mode of lecture delivery : Webinar learning	Core Courses - Advanced Mechanics of Solid - Computational Methods in Engineering - Engineering Design Optimization - Failure Analysis & Design Including Thermal Structural - Principles of Product Design - Product Reliability	
Production and Industrial Engineering - Applied Ergonomics - Industrial Design (including Ergonomics & Aesthetics) - Operations Management - Fabrication and Processing of Advanced Components - New Product Development	Elective Courses Vibration and Control - Theory of Vibration - Machinery Vibration and Diagnostics - Random Vibration Theory - Vibration control and Isolation - Vibration of Structures - Nonlinear System Analysis and Control Numerical Methods - Advanced FEM and BEM - Computational Structure/Fluid Dynamics	Mechanics - Advance Dynamics - Robotics - Applied Elasticity - Theory of Plasticity - Fracture Mechanics - Mechanics of Composites - Experimental Stress Analysis
Thermal Engineering Heat and Mass Transfer		

The Senate discussed the proposal and suggested the following:

- There should be a commitment for 3 to 5 years from the industry, while entering the MOU for such program with IIT Indore.
- A group of companies may join together for meeting 3-5 batches of 15-20 candidates per year to offer this program in long run.
- Duration of the program may be increased as per the requirement. Accordingly, registration cost will also be extended.



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The Senate discussed and in-principle approved the proposal of Web-based Executive M.Tech. program.

Syllabi of the courses will be discussed in the subsequent meetings of the Senate, subject to the recommendations of the Senate Post Graduated Committee (SPGC).

ITEM 31.6: Proposal of new courses.

The Senate deferred proposal for new courses for deliberation in the next meeting of the Senate.

ITEM 31.7: Modification in Research Thesis Evaluation

The Senate deferred the agenda item for deliberation in the next meeting of the Senate.

ITEM 31.8: Roster system for the Ph.D. admissions.

The Senate discussed and approved the proposed roster system for the Ph.D. admissions in Teaching Assistantship (TA) Category by following the reservation guidelines of the Govt. of India norms from Academic Year 2022-23, Spring Semester 2023. The reservation roster will not be applicable for non-TA category admissions in PhD.

A typical reservation roster for admission in AY2022-23 spring semester is give below as an example.

Reservation Roster for the Ph.D. students for the Academic Year 2022-2023									
Department/Category	TA allotted for AY 2022-23	UR	OBC (27%)	SC (15%)	ST (7.5%)	EWS (10%)	PwD (5%)		
							UR	OBC	SC, ST, ESW
Engineering	10	6	2	1	0	1	0	0	0

ITEM 31.9: Item for information:

(i) Policy for FA to TA conversion.

The Senate noted the following information.

The Ph.D. students who join as Fellowship Awardee (in Projects), and in case of non-submission of the thesis before the completion of the project, students will be allowed for TA scholarship, equivalent to the duration



they spent in the Project as a Ph.D. student or maximum five years, whichever is earlier. The fulfillment of the requirement of GATE qualification and maximum 3 TA Ph.D. student rule will be applicable as earlier. At the time of admission of Ph.D. student under the category FA (Project), minimum funding for 1.5 years must be ensured by the concerned Thesis Supervisor(s) and the Department.

ITEM 31.10: Any other item with the permission of the Chair.

Nil.



(Professor Suhas S. Joshi)
Director and Chairperson, Senate



(Mr. S. P Hota)

Registrar and Secretary, Senate

