INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DESIGN AND MANUFACTURING, KANCHEEPURAM

MINUTES FOR THE 47th MEETING OF THE SENATE

Date : 05.05.2022
Time : 11: 00 AM
Venue: : **Hybrid Mode**

Members Present:

S. No	Members	S. No	Members
01.	Prof. DVLN Somayajulu, Chairman	07.	Prof. M D Selvaraj
02.	Prof. Ram Bilas Pachori	08.	Dr. Sudhir Varadarajan
03.	Prof. R Chandrashekar	09.	Dr. B. Sivaselvan
04.	Dr. Shankar Venugopal	10.	Dr. Priyanka Kokil
05.	Prof. M Sreekumar	11.	Dr. V. Masilamani
06.	Prof. Binsu J Kailath	12.	Sh. Chidambaram A, Secretary

Invitees:

S.No	Name
01.	Prof. Narayanan S
02.	Prof. S. P. Venkatesan

Leave of absence granted:

S. No	Members	S. No	Members
01.	Prof. G. K. Ananthasuresh	04.	Dr. Chandramouliswaran
02.	Prof. Krishna Nandivada	05.	Dr. G Venkatesh
03.	Dr. Manoj Choudhury	06.	Dr. B Raja

2022-47-Senate-01	**Welcoming the members and invitees by the Chairman, Senate**
	The Chairman Senate extended warm welcome to all the esteemed members of the Senate and the Invitees. The Chairman has briefed regarding the faculty recruitment process, approval of the panel of Experts, Professor recruitment for the first time in the Institute and the process followed therein for the selection. Prof. M Sreekumar Dept. of ME, Prof. Binsu J Kailath Dept. of ECE and Prof. M.D. Selvaraj Dept. of ECE have been appointed as Professors in the Institute. All Senate members greeted and welcomed the new Professors as the members of the Senate.
2022-47-Senate-02	**To confirm the Minutes of the 46th meeting of the Senate held on 13th December, 2021**
	The Minutes of 46th meeting of the Senate held on 13th December, 2021 was circulated to all members. No comments were received from the members. *The Senate confirmed and approved the Minutes of the 46th meeting of the Senate held on 13th December, 2021 as* *Annexure- A*

2022-47-Senate-03	**Action Taken Report on the decisions of 46th meeting of the Senate held on 13th December, 2021**	
	The action taken report of the institute on the decision of the Senate is as under:	
2021-46-Senate-06	Minor and Specializations of B Tech programmes	Process is initiated.
2021-46-Senate-07	Change in credits of NPTEL courses as per new curriculum	Implemented.
2021-46-Senate-08	Change in credits for B Tech (Honours) as per new curriculum	Implemented.
2021-46-Senate-09	New QIP Centre (Minor) to initiate the activities	• Conducted FDPs • Requested the host QIP Centre (IIT KGP) to include IIIITDM Kancheepuram as QIP Minor centre w.e.f academic year 2023-24.
2021-46-Senate-10	Approval for New Elective courses proposed by the faculty members	Process is initiated
2021-46-Senate-11	Change of admission category and guide change of Mr. Reji G., Roll No. EDM19D007	Implemented
2021-46-Senate-12	To ratify the academic calendar of the Institute for the year 2022	-
2021-46-Senate-13	To discuss about Intake of PhD Scholars per faculty under HTRA category and Thesis Submission Guidelines	Committee is constituted and process is initiated.
2021-46-Senate-14	Formulation of Suitable Policy for Implementation of NEP 2020	Process is initiated.
2021-46-Senate-15	Commencement of off-line classes on the campus	Off-line Classes commenced in a phased manner and all the students are available on the campus.
2021-46-Senate-16	Approval for offering Design Research: Theory and Methods for Ph. D scholars of Dept. of SIDI in place of Research Methodology course	Implemented
2021-46-Senate-17	Institute support for the scholars who have Joined under Project category	Recommendations of the Sub-committee constituted by the Chairman have been implemented and placed as an item in this senate.
2021-46-Senate-18	Alternate Evaluation System in case of Student with Disabilities: Grant of additional compensation time for Examination.	Implemented
2021-46-Senate-19	Fees structure for the B. Tech students for the academic year 2021-22	Implemented
2021-46-Senate-20	MoU signed with MTAB Technologies Pvt. Limited, Chennai	Activities are initiated.
2021-46-Senate-21	MoU signed with SAMSUNG	Activities are initiated.
2021-46-Senate-22	Panel of Experts for Faculty Recruitment as Senate nominee	Expert panel is approved by the BoG.

	2021-46-Senate-23	Elective Course for Approval – Pattern Recognition by Dr. J Umarani	Implemented
	The Senate took note of action taken by the Institute on the abovementioned items.		

2022-47-Senate-04	**Establishment and Operation of Academic Bank of Credits in IIITs**

Guidelines from the Ministry of Education (MoE)

MoE vide its letter dated 01.02.2022 advised all the IIITs to register with Academic Bank of Credit (ABC).

ABC is a national facility developed by the MEITY, Govt. of India, to promote flexibility, inter/ multidisciplinary mobility of students, credit transfer, to encourage students to choose own learning path, to attain a Degree or Diploma or Post Graduate diploma or academic qualification, and to facilitate multiple entry-multiple exit as well as any-time, any-where, and any-level learning system.

Students have to register and open account for credit verification/ accumulation/ transfer/ redemption/authentication of academic awards from ABC which accepts course-credits data only from HEI. The courses offered, timing, evaluation methods, attendance rules and assessment procedure are to be decided by the HEI as per the norms given by NEP-2020 towards holistic development of students. The credits earned by a student will be valid for degree/diploma/PGdiploma/certificate as prescribed by credit awarding and credit accepting HEIs with maximum duration of seven years. HEI should ensure infrastructure and audio-visual facilities, e-resources, virtual classrooms, studios, high bandwidth internet connectivity, facilities for face to face theory or practical/ or training courses. Students are expected to complete the credits in the same semester of registration, however, one semester extension for four-semester programme and two semester's extension for eight-semester programme is permitted.

The student should earn all credits in core and at least 50% of the total credits from the HEI awarding degree/diploma/certificate programme in which the student is enrolled.

A copy of MoE letter dated 01.02.2022 along with gazette notification of ABC is placed as **Annexure B1 and B2**.

HEI should seek approval from the Senate and the BoG to

   a. Apply for registration with ABC
   b. Amend Ordinance (B Tech / DD / M Tech and M Des) to admit students under ABC
   c. To identify list of courses, registration, pre-requisites (if any), credits, transfer and acceptance of credits and grades from other HEIs
   d. To create supernumerary seats in overcrowding courses
   e. To structure courses under core electives/ open electives/ skill enhancement electives/ ability enhancement electives etc. with appropriate credit requirements
   f. To set up Internal Quality Assurance Cell and ABC Grievance Redressal Mechanism
   g. To decide the course fee which is to be fixed per credit
   h. To publish all the above details on Institute webpage

Steps taken/to be taken by the Institute

   i. In line with direction of the MoE, the Institute has registered with ABC with due approval of the Chairman, Senate as the compliance of registration process is linked with release of funds.
   ii. Institute seeks permission of the Senate to proceed with the implementation of ABC as per a. to h. above which are proposed in line with the MoE/ABC guidelines.
   iii. Institute plans to offer two courses from each Dept. (CSE, ECE, ME, and SIDI) from Jul-Nov 2022 semester.
   iv. Plans to allow our students to register and transfer credits from courses offered by faculty members of IITs and CFIIITs.

	v. Similar to NPTEL courses, the credits will be transferred, however the grade obtained will not be considered for CGPA.
	vi. As per 2021-46-Senate-07, the credits that could be earned from NPTEL courses have been given as 8-9 for B Tech students and 4-6 for M Tech. The same is proposed to be increased to 12 for B Tech and 8-9 for M Tech including both NPTEL and ABC.
	Senate perused the proposal and advised to participate in the ABC with the above proposal as pilot run which may be revised after implementation based on further deliberations. In addition to the above points, the Senate also advised to look into the requirement of minimum marks to be scored by the students to be eligible for credit transfer.
	The Senate ratified the decision of the Chairman Senate on registration of the Institute under ABC. The Senate further authorized the Chairman to form sub-committee for formulating the guidelines to identify the courses from each department; methodology for course selection; timing; evaluation methods; attendance rules; assessment procedure, requirement of minimum marks, etc. for effective implementation of Academic Bank of Credits with effect from the Academic Year 2022-23.
2022-47-Senate-05	**MoU with Kanazawa University for student exchange**
	It is proposed to enter into MoU with Kanazawa University, Japan for a student exchange program under **"Entrepreneurship for Sustainability Goals"** to be sponsored by MEXT from Jan 2023 for a period of 4 years. Kanazawa University is a Japanese national university in the city of Kanazawa, founded in 1862 and was chartered as a university in 1949. It is ranked **#601-650** in QS Global World Rankings 2022.

The salient features of the exchange program is as under:

1. Under the program, over 8-10 students from India, 5 from Thailand and 15-20 from Japan are expected to be supported each year.
2. It will involve online engagement (6-8 months, weekly 1.5 hrs) and visits to India/Japan (2-3 months).
3. This program is open for UG (2nd/3rd years) and PG, especially those opting design and entrepreneurship careers.

Dept. of SIDI will manage the program and the Institute is required to provide accommodation for visiting Japanese students for 2-3 months. There is no major financial commitment from the Institute. A draft agreement and presentation shared by Kanazawa University is enclosed as **Annexure C** for kind information of the Senate.

The Senate advised the Institute to include in the MOU that 8-10 students from IIITDM will be nominated and after discussion approved the proposal of signing MoU with Kanazawa University which would be placed in the BoG as well for approval. The final MoU shall be placed in the Senate for perusal and approval. |
| **2022-47-Senate-06** | **MoU with IIIT Allahabad** |
| | IIIT Allahabad that was established in 1999, on completion of 20 years have conducted one year programme beyond 20 by 2020 and the Directors of all CFIIITs have been invited for the concluding session on 25th March 2022. The Director and Dean Academics have attended the meeting and an MoU was signed between the two Institutes for Academic collaboration, exchange of students, faculty from one Institute offering courses for students form the other, credit transfer across, are proposed. Building a common platform for student interactions by conducting common sports, cultural and technical festivals are also planned. Joint implementation of NEP 2020 is also proposed. **The MoU is attached as Annexure D** for kind perusal of the Senate. |

	In the meeting, it was decided to work towards Virtual Unification of all CFIIITs and formation of committees of Dean's from all Institutes for each of the Activities have been discussed. Accordingly, • the first meeting of all Dean Academics have been conducted on 12th April and it was decided to have uniform academic calendar for all CFIIITs. • Proposed to develop common platform for PhD admission across these 5 CFIIITs from July 2023 admission. ***The Senate perused the proposal and ratified the signing of MoU with IIIT Allahabad.***

2022-47-Senate-07	**Upgradation/Switch over to PhD from M Tech Programme by Institute students.**
	
	The Ordinance of the Institute (R2.2) provides for upgradation of registration from M.Tech to Ph.D program subject to fulfillment of following norms:
	
	a) Meritorious candidates who have registered for M.S/M.Tech programmes are eligible to upgrade their registration to the Ph. D programme in the same department if they satisfy the following criteria:
	
	    a. The candidate should have been registered for a minimum of 2 semesters in the M.S/M.Tech programme .
	    b. Minimum CGPA of 8.0 in the prescribed courses.
	
	b) In the case of a M Tech Student, a Committee duly constituted by the Director will consider the application for up-gradation to Ph.D and make its recommendation to the Senate. If approved, a Doctoral Committee will be constituted and guide(s) will be allotted.
	c) The candidate should pass the comprehensive Examination within a semester after up-gradation to the PhD programme and within two attempts.
	d) The candidate will be treated on par with one admitted directly after a Bachelor's degree, but with the residency period and course work completed under the M.S/M Tech registration as decided by the Doctoral Committee credited to the Ph.D programme.
	
	Recently, the institute has received a request from a student for upgradation of registration from M.Tech to Ph.D program. The Institute may consider to encourage such upgradation and in addition to above prescribed norms, the following norms may also be incorporated in upgradation cases suitably in the Ordinance:
	
	R.2.2.1 Switch over to PhD from M Tech programme by Institute students.
	
	a) Institute M Tech students can opt for switch over to PhD programme after successful completion of two semesters in M. Tech. The Institute will notify in the Institute notice board about this scheme before commencement of academic year.
	b) This upgradation will be based on the recommendation of the committee consisting of four to five members across department including an external expert constituted by the Director.
	c) They may be allowed to take up PhD in another department also as recommended by the above committee.
	d) For students admitted from M.Tech to Ph.D, an option may be given to them to select 2 degrees, both M Tech and PhD or Ph.D alone.
	e) Students who exercise two-degree option are to complete four additional courses of 5000 or above level other than those completed for the M Tech.
	f) The minimum CGPA for eligibility shall be fixed at 8 for all the courses of 1st and 2nd semester considered together.
	g) If the student opts for two degrees, no separate project work to be done for M Tech programme.
	h) M Tech Degree will be given from the parent department.
	i) For upgraded scholar from M Tech to PhD and opting for only PhD, only 2 special courses to be

completed in lieu of the 4 additional courses at 5000 level or above.

j) After upgradation to PhD, the M Tech students can opt for exit option after one semester.

k) Exit option may be given to go back to the parent department, if dropping out of PhD

l) Admission norms of each department will be fixed by the committee of the admitting department with the approval of the Director.

m) Such converted PhD students will receive HTRA fellowship from the date of registration and number of such fellowships will be subtracted from the existing sanctioned HTRA fellowships at the Institute or Department level.

The Senate perused the proposal and after deliberation, approved the upgradation from M.Tech to PhD. Accordingly, based on the advices and suggestions given by the Senate, the norms for upgradation from M Tech to PhD are revised as follows:

a) *Institute M Tech students can opt for upgradtion to PhD programme after successful completion of two semesters in M Tech. The Institute will notify in the Institute notice board/email/website about this scheme soon after the M Tech second semester results are announced.*

b) *The minimum CGPA for eligibility to switch over to PhD program shall be fixed at 8.5 for all the courses of 1st and 2nd semester of M Tech programme considered together.*

c) *This upgradation will be based on the recommendation of the committee consisting of four to five members across department including an external expert constituted by the Director.*

d) *Students may be allowed to take up PhD in another department also.*

e) *Students upgraded from M Tech to PhD could earn both M Tech and PhD degrees.*

f) *Students are to complete four additional courses of 5000 or above level other than those completed for the M Tech.*

g) *M Tech Degree will only be given from the parent department, however PhD could be earned from same or another Dept.*

h) *After upgradation to PhD, the M Tech students can opt for exit option after one semester.*

i) *After exercising Exit option, they may complete the M Tech from the parent department.*

j) *Such students should earn the remaining credits required for the M Tech Degree of the parent Department after considering the credits earned from the courses in the 3rd semester, from a project work during the 4th semester of the M Tech program.*

k) *The students who upgrade to PhD should pass the comprehensive Examination within THREE semesters after up-gradation to the PhD program and within two attempts.*

l) *Any student who could not clear the comprehensive Examination within three semesters and within two attempts may opt-out of the PhD programme and earn the M Tech degree from parent Department by completing the remaining requisite credits.*

m) *Any other cases of withdrawal from the PhD programme will be handled as per the Senate decision.*

n) *All other rules and regulations will be same as that for the regular PhD students of the Institute and based on the recommendation of the Doctoral Committee and approval by Dean Academics and the Director.*

o) *Such converted PhD students will receive HTRA fellowship from the date of registration.*

p) *Number of such fellowships will be subtracted from the existing available HTRA fellowships at the Institute/Department level.*

q) *The upgradation process should be completed before the regular PhD selection process of the Institute.*

2022-47-Senate-08	**To Modify the Ph. D. Ordinance of the Institute Concerning Eligibility Criteria for PhD Admission**

As per the PhD Ordinance (R.1), the Institute offers PhD program under regular full time scholars with or without institute fellowship or with project support.

The letter received from Ministry of Education, Govt. of India prescribes following conditions for grant of fellowship, the details of the same is as under:

Designation and Qualification	
Junior Research Fellow	**Senior Research fellow**
Post Graduate Degree in Basic Sciences OR Graduate/Post Graduate degree in Professional course selected through a process described through any one of the following: a) Scholars who are selected through National Eligibility Test- UGC-NET including Lectureship and GATE b) The selection process through National level examination conducted by MHRD and its agencies and Institutions such as UGC/IIT/IISC/IISER/IIIT etc.	Qualification prescribed for JRF with two years of research experience

In line with the norms, the Institute is at present admitting students based on national level examination conducted by the Institute. However, to ensure quality of intake, it is proposed to mandate GATE as criteria for Ph.D admission. Accordingly, the following amendments are proposed in the Ph.D Ordinance and the details of the same is as under:

Existing Ordinance	Proposed Amendments
R.2.1.1 (i) Candidates with a Master's degree in Engineering/Technology with a good academic record or a Master's degree by Research in Engineering/Technology disciplines with a good academic record.	R.2.1.1 (i) Candidates in Master's degree in Engineering/Technology with a good academic record and *GATE qualified* or a Master's degree by Research in Engineering/Technology disciplines with a good academic record and *GATE qualified.*
R.2.1.1(iii) Candidates who have qualified for the award of Bachelor's degree inEngineering/Technology with exceptionally good academic record in an eligible discipline will be considered for direct admission to Ph. D. Programme as a regular full time scholar subject to the following conditions: • a B. Tech degree holder of an IIT with a minimum CGPA of 8.0 on a 10.0-point scale or with a valid GATE score. • a Bachelor's degree holder in Engineering/Technology from any other University should be among the top 10 rank holders in the University and having a valid GATE score. • Bachelor's degree holder in Engineering/Technology from a reputed R&D organization.	R.2.1.1(iii) Candidates who have qualified for the award of Bachelor's degree in Engineering/Technology with exceptionally good academic record in an eligible discipline will be considered for direct admission to Ph. D. Programme as a regular fulltime scholar subject to the following conditions: • a B. Tech degree holder of an IIT with a minimum CGPA of 8.0 on a 10.0-point scale *GATE qualified.* • a Bachelor's degree holder in Engineering/Technology from any other University should be among the top 10 rank holders in the University and *GATE qualified.* • Bachelor's degree holder in Engineering/Technology from a reputed R&D organization with at least 5 years of experience under external category (Non HTRA).

	The Senate deliberated the proposal in detail and advised the Institute to maintain the status-co for the PhD Admission Process this July 2022 session. However, the Senate has advised to gather information regarding the eligibility criteria followed for PhD admission in other IIITs and present the same in the subsequent senate for discussion.
2022-47-Senate-09	**M Des Admission 2022-23**
	In line with senate approval vide item no: 2021-44- Senate-05, and with the approval of the Chairman Senate, the call for Application for admission to the M Deas programme for the academic year 2022-23 has been initiated in March 2022 in 2 categories:

(i) 10 seats for candidates with valid CEED score and

(ii) 10 for sponsored candidates.

In case of candidate under Category(ii) Self-sponsored/sponsored by Industry/QIP category) without CEED), the norms approved by the senate is as under: "He / she shall be a regular employee with continuous service of at least 2 years in R&D organization, industry, academic/institution, Govt. organization etc. and engaged in professional design work". However, **this has been amended as follows to attract all the candidates, "He/she shall have at least 2 years of work experience in R&D organization, industry, academic/institution, Govt. organization, etc."**

Seat matrix has prepared for all 20 seats duly following reservation norms of Govt. of India. The fees payable by the candidates who are joining with CEED score is at par with regular M. Tech program (Tuition fee of Rs 25000 per semester for first year and Rs 30000 per semester for second year). SC/ST students admitted under CEED are exempted from payment of tuition fee irrespective of their parental income. In case of students joining under Self-sponsored/sponsored by Industry/QIP category, the tuition fee would be Rs. 50,000/- per semester as approved by the Senate. The seat matrix and fee structure are given as **Annexure E** for the kind perusal of the senate.

The Senate ratified the approval accorded by the Chairman, Senate on the M Des admission for 2022-23 and advised to proceed with the process. |
| **2022-47-Senate-10** | **Student Intake for the year 2022-23** |
| | The proposed intake for the academic year 2022-2023 in case of UG program is being maintained at the same level of 360 seats and 100 seats for the M.Tech Program for students admitted through JoSAA/CSAB for B Tech and CCMT for M Tech. Few seats are allocated for Direct Admission for Students Abroad (DASA) category and for students to be admitted through Study In India (SII) programme. The program-wise proposed admission details for the AY 2022-23 is as under:

Degree	Course Name	No of Seats	DASA	SII
B.Tech	Computer Science and Engineering	80	4	2
B.Tech	Computer Science and Engineering with Major in Artificial Intelligence	40	4	2
B.Tech	Electronics and Communication Engineering	120	4	2
B.Tech	Mechanical Engineering	80	2	1
B.Tech	Smart Manufacturing	40	2	1
	Total (B.Tech)	**360**	**16**	**10**
M.Tech	Computer Science and Engineering with Specialization in Data Science and Artificial Intelligence	20	1	1	

M.Tech	Electronics and Communication Engineering with Specialization in Communication Systems	20	1	1	
M.Tech	Electronics and Communication Engineering with Specialization in Microelectronics and VLSI Systems	20	1	1	
M.Tech	Mechanical Engineering with Specialization in Mechanical Systems Design	20	1	1	
M.Tech	Mechanical Engineering with Specialization in Smart Manufacturing	20	1	1	
	Total (M.Tech)	**100**	**5**	**5**	
PhD	**PhD (Full Time with HTRA)**	**40**	**-**		
	Grand Total	**500**	**21**	**15**	

The Senate in its 44th meeting has accorded approval to commence M Tech Program in Computer Science and Engineering, Mechanical Engineering with Specialization in AI and Robotics and M Tech in Power Electronics System Design. However, due to the shortage of hostel accommodation and the current pandemic situation, it is proposed to commence the program from 2023-24 onwards.

Based on the approval by the Senate and the BoG, the intake proposed above and the seat matrix following the reservation rules shall be communicated to JoSAA/CCMT/DASA/SII.

The Senate approved the student intake proposed by the Institute for the year 2022-23.

2022-47-Senate-11	**Fee Structure of 2022-23 Admission Batch**
	As per the MHRD notification letter no.F.No.79-3/2015-TS.1 dated. 10.07.2015, the tuition fee for the new entrants of the UG programme is to be enhanced at the rate of 10% every year. During the year 2020-21 and 2021-22, the tuition fee of the institute was Rs. 60,000/-, same as that was of 2019-20, as per MoE direction through letter No. F.No.77-2/2020-TS.I dated 24.04.2020 considering the effect of the pandemic. It is proposed to increase the tuition fee by 10% for the 2022-23 admission batch. In line with guidelines of the Government, all SC/ST and PWD of B Tech students and SC/ST of PG / Ph. D students will be exempted from payment of tuition fee irrespective of their parental income. M.Tech and Ph.D fee are also fixed as per the Ministry and IIIT Council norms. The fee structure for B Tech, M Tech and PhD is given as **Annexure F**. ***The Senate approved the fee structure for the students to be admitted in the year 2022-23.***
2022-47-Senate-12	**Approval for New Elective courses proposed by the faculty members**
	The Institute has recently recruited faculty members in the specializations of Bio Technology and Bio Medical Engineering. The following courses have been proposed by those faculty members, with due recommendation from Departmental Academic Committee (DAC) which included expert Professors from IITs and the same is presented for kind perusal of the Senate.

Sl. No.	Course	Faculty proposing the course	Syllabus Reviewer(s)
1.	Biology for Engineers	Dr. Monisha, Dept. of SH (BioTech)	• Prof. Anindya Roy, Dept. of Biotechnology, IIT Hyderabad • Dr. T. Rathinavelan, Associate Professor, Dept of Biotechnology, IIT Hyderabad

	2.	Biomedical Instrumentation	Dr. A. Gowri, Dept. of SH (BioMed)	• Dr. V V Raghavendra Sai, Asso. Professor, Dept of Applied Mechanics, IIT Madras • Prof. Renu John, Dept. of Biomedical Engineering, IIT Hyderabad
	3.	Sensors in Healthcare		
	4.	Design for Artificial Organs	Dr. Monisha, Dept. of SH (BioTech)	• Dr. Abhijeet Joshi, Associate Professor, Dept of Biosciences and Biomedical Engineering, IIT Indore • Dr. Subha Narayan Rath, Head and Associate Professor, Dept of Biomedical Engineering, IIT H

The content and other details of the above courses are placed as **Annexure G1 to G4**.

The Senate approved the elective courses proposed by the Institute.

2022-47-Senate-13	**Data Science Course for the 5th Semester across branches**

Two different data science courses were placed in the 44th Senate with same course contents due to typographical error and the same needs to be corrected. The details of the courses are presented below for the kind perusal of the Senate.

Batch/Semester	Old Course Name (44th Senate)	Batch/Semester	New Course Name (47th Senate)
B Tech CS-AI 3rd Semester	Data Science: An applied perspective 3 0 2 4	B Tech CS-AI 3rd Semester	Data Science: An applied perspective 3 0 2 4
All B Tech except CS-AI 5th Semester	Data Science: An applied perspective 3 0 2 4	All B Tech except CS-AI 5th Semester	*Introduction to Data Science for Engineers* *3 0 2 4*

The details of the courses are given in **Annexure H.**

The Senate perused the proposal and advised the Institute to change the course name as Applied Data Science in place of Data Science: An Applied Perspective.
Hence the 3rd semester core course for the B Tech CS-AI would be titled Applied Data Science.
The Senate further approved the courses proposed by the Institute.

2022-47-Senate-14	**Institute support for the scholars who have Joined under Project category**

In line with the direction of the Senate 2021-46-Senate-17, and with the approval of the Chairman, Senate, a committee was constituted comprising following members to evaluate and recommend the project scholars, who are pursuing Ph. D under project category, for granting fellowship after completion of project period.

1.	Prof. V Krishna Nandivada Dept. of Computer Science and Engineering, IIT Madras.	Chairman
2.	Prof. Aurobinda Routray Dept. of Electrical Engineering, IIT Kharagpur	Member
3.	Prof. Binsu J Kailath Dean (Academics), IIITDM Kancheepuram	Secretary

The committee held its meeting on 25.01.2022 and 27.01.2022 through Google Meet and the performance of the following scholars was reviewed by the committee:

S. No	Name	Roll No	Guide Name	Date of Meeting
1	S. SUDHARSON	EDM18D009	Dr Priyanka Kokil	25/01/2022
2	TURIMERLA PRATAP	EDM18D010	Dr Priyanka Kokil	25/01/2022
3	K SRIDHARAN	EDM19D003	Dr B Chitti Babu	25/01/2022
4	KEERTHANA K	EDM19D004	Dr Selvaraj M D	25/01/2022
5	MOHANAPRIYA	COE19D003	Dr N Sadagopan	27/01/2022
6	PULIKONDA MOUNIKA	EC21D0001	Dr. Priyanka Kokil	27/01/2022

The committee assessed, the credentials, requirement, specialization and performance of the candidate and after due consideration recommended the following 2 candidates taking into account their admission at par with regular HTRA candidates of the year and also their performance in the evaluation meeting:

1. K SRIDHARAN
2. PULIKONDA MOUNIKA

As per 2021-46-Senate-17, the above students shall be eligible for HTRA for a maximum duration of **five years** from the date of joining the Institute.

In case of other candidates, the committee recommended that the Institute may come up with suitable measures to provide them with any support that may be possible.

Accordingly, the matter was discussed in the Deans / Registrar / Director meeting held on 16.03.2022. After deliberation, it was decided to grant the Institute support to the following 4 scholars **only for six more months**, with due approval of Chairman Senate, on account of prevailing pandemic situation.

1. S. SUDHARSON
2. TURIMERLA PRATAP
3. KEERTHANA K
4. MOHANAPRIYA

Senate ratified the approval accorded by the Chairman Senate to change the category of 2 PhD scholars from Project to HTRA. Senate also ratified awarding Institute support to 4 PhD scholars admitted under project category for six months.

2022-47-Senate-15	**Award of Provisional Degree to B Tech student who completed credit requirements**
	Mr. Mandapalli Kushwanth (Roll Number MDM17B039) of the 2021 graduating batch has fulfilled the academic requirements in January 2022 and requested for awarding provisional certificate for his employment avenues.
	With the approval of the Chairman, Senate, the student has been awarded the provisional Degree in *Mechanical Engineering with Specialization in Design and Manufacturing.*
	Senate ratified the decision of Chairman Senate on awarding provisional certificate to Mr. Mandapalli Kushwanth (Roll Number MDM17B039) and also approved to award his degree in the forthcoming convocation.
2022-47-Senate-16	**PhD Defence Completion by Ms. Subhasree Ojha**
	Defense meeting of Ms. N N SUBHASHREE OJHA, PhD scholar was conducted through Hybrid mode 01st April 2022 as detailed below.

Name of the Scholar	Ms. N N SUBHASHREE OJHA
Roll No	PHY16D001
Department	Dept of S&H, Physics
Thesis Title	Sensitivity Enhancement of Sf-Mzi Configuration For Sensing Broad Range Of Organic/ Inorganic Materials
Date of Joining	08.08.2016
Date of Passing of Comprehensive	22.05.2018

Examination	
Date of Synopsis Meeting	21.07.2021 at 11 AM through online
Date of Submission of Thesis	30.08.2021
Indian Examiner	Dr. Saurabh Mani Tripathi Associate Professor, Department of Physics, IIT Kanpur
Date of receipt of report	16.01.2022
Foreign Examiner	Prof. Gilberto Brambilla Zepler Institute for Photonics and Nanoelectronics University of Southampton
Date of receipt of report	04.10.2021
Date of PhD Viva-Voce	01.04.2022
Doctoral Committee	
Chairman	Dr. M. D. Selvaraj, ECE, IIITDM Kancheepuram
Research Supervisor	Dr. Naveen Kumar, Physics, IIITDM Kancheepuram
Internal Member	Dr. Tapas Sil, SH, IIITDM Kancheepuram
Internal Member	-
External/Internal Member	
Internal Examiner for the Defence meeting	Prof. S Balaji Dept of Electrical Engg. IIT Madras, Chennai - 600 036.

LIST OF PAPERS BASED ON THESIS

Papers in Referred Journals

1. N. N. Subhashree Ojha, Ashish Kumar, and Naveen Kumar, Post-fabrication refractive index sensitivity enhancement technique for single-fiber Mach-Zehnder interferometer, Opt. Fiber Technol., vol. 54, p. 102118, 2020.

2. N. N. Subhashree Ojha, Ashish Kumar, and Naveen Kumar, Sensitivity enhancement of a single-fiber Mach - Zehnder interferometer by sensitizing its interference length, Applied Optics, vol. 59, pp. 4392 - 4397, 2020.

3. N. N. Subhashree Ojha, and Naveen Kumar, A Simple Technique for Detecting the Broad Range of Organic/Inorganic Materials, Opt. Fiber Technol., 64, 102542, 2021.

4. A. Kumar, N. N. Subhashree Ojha, and Naveen Kumar, Highly sensitive singlefiber MZI configuration for weight sensing, Optics and laser technology, vol. 130, pp. 1 - 8, 2020.

5. Ryusei Momosaki, Ashish Kumar, Naveen Kumar, N. N. Subhashree Ojha, Polarization induced non-reciprocal phase controlled all fiber loop mirror based in clinometer, Optics and Laser Technology, vol. 112, pp. 134 - 139, 2019.

6. N. N. Subhashree Ojha, Hemalatha V., Naveen Kumar, and Jayachandra Bingi, Fluoride Ion Contamination Detection in Water through Single-Fiber Mach-Zehnder Interferometer, communicated.

7. N. N. Subhashree Ojha, Naveen Kumar, P. V. Karthik Yadav and Y. Ashok Kumar Reddy, Refractive Index Sensitivity Enhancement through Metal Thin Film Deposition, communicated.

Presentations in Conferences

1. N. N. Subhashree Ojha, Ashish Kumar and Naveen Kumar, Compact single mode single-fiber MZI based strain sensor, Student Conference on Optics and photonics (SCOP-2018), PRL,Ahmedabad,Oct-18.

2. N. N. Subhashree Ojha, Ashish Kumar and Naveen Kumar, Enhancing the sensitivity of interferometer with involvement of fiber loop mirror, International Conference on Fiber Optics and Photonics (Photonics-18), IIT Delhi, Dec-2018.

3. Ashish Kumar, N. N. Subhashree Ojha, and Naveen Kumar, Highly sensitive and cost-effective optical fiber interferometer based pressure sensor, International Conference on Fiber Optics and Photonics (Photonics-18), IIT Delhi, Dec-2018.

4. Naveen Kumar, Ashish Kumar, Ryusei Momosaki, N. N. Subhashree Ojha, Operating point maneuvering through non-reciprocal optical biasing in fiber loop mirror configuration, International Conference on Fiber Optics and Photonics (Photonics-18), IIT Delhi, Dec-2018.

	5. N. N. Subhashree Ojha, Ashish Kumar, and Naveen Kumar, Sensitivity Enhancement by Varying the Orientation of Phase Shifters based on Non reciprocal phase shift in Fiber Loop Mirror Configuration, International Conference on Optics and Electro-Optics (ICOL2019), IRDE, Dehradun, Oct 2019.
	6. N. N. Subhashree Ojha, and Naveen Kumar, Identification of Potassium Based Toxic Element by Using Bi-taper Mach-Zehnder Interferometer, International Conference on Optics and Electro-Optics (ICOL2019), IRDE, Dehradun, Oct 2019.
	7. N. N. Subhashree Ojha, Ashish Kumar, and Naveen Kumar, Refractive Index Sensitivity Enhancement of a Fiber Filter by MZI Cascaded Sagnac Interferometer, IEEE Workshop on Recent Advances in Photonics (WRAP) 2019, IIT Guwahati, Dec. 2019.
	8. N. N. Subhashree Ojha, Hemalatha V., Naveen Kumar, Jayachandra Bingi and Y. Ashok Kumar Reddy, Single-Fiber Mach-Zehnder Interferometer based Detection of Fluoride Ion Contamination in Water, IEEE Workshop on Recent Advances in Photonics (WRAP) 2019, IIT Guwahati, Dec. 2019.
	9. N. N. Subhashree Ojha and Naveen Kumar, Improvement in Sensitivity of Single Fiber MZI by Exploiting Non-reciprocal Phase Shift in Fiber Loop Mirror, 4th Conference on Information and Communication Technology (CICT 2020), II-ITDM Kancheepuram, Dec. 2020.
	The Senate noted the particulars of the PhD defence meeting of Ms. Subhasree Ojha along with the papers published in the journals and conferences.
	The Senate also approved to award her PhD degree in the forthcoming convocation.
2022-47-Senate-17	**Relief Granted to Sh. Yathavan, MDM20D012, PhD scholar based on his request.**
	Sh. Yathavan was provisionally selected for admission to Ph.D program in July 2020 session under Half Time Research Assistance (HTRA) under the supervision of Dr. Avinashkumar, Department of Mechanical Engineering.
	In the month of October, 2021, it was noted that the scholar did not remit the requisite fees for the July-November 2021 semester period in spite of receiving fellowship amount and even after repeated reminders and extension of time period. Therefore, his HTRA fellowship for the month of October 2021 was withheld temporarily and the scholar was advised to remit the requisite fees for release of fellowship amount.
	In response, Mr. Yathavan submitted a request for discontinuation from the program vide his mail dated 30.11.2021 citing financial constraints. In the said mail, he also informed about the offer received from the University Kebangsaan Malaysia (The National University of Malaysia) for admission to PhD program and requested for early relief from the current Ph.D program.
	In order to discuss his request, an urgent DC meeting was conducted on 02.12.2021. In addition to the DC members which include the external expert Prof. Prasad Krishna, Dept. of Mech. Engg, NIT Surathkal, Dr. B. Raja, Head, Dept. of Mechanical Engineering; Prof. Binsu J Kailath, Dean (Academics) and Prof. M. Sreekumar, Dean (Faculty Affairs) also attended as invitees. Based on submission of scholar and also the supervisor, the committee, after a detailed deliberation, recommended the following:

	I. The committee do not want to stop the carrier prospects of the candidate, however, would want to strictly warn the candidate to keep himself away from such unethical acts henceforth.
	II. The scholar may be relieved from the PhD program after fulfilling the following two requirements.
	  i. The scholar has to indemnify the Institute (in Non-Judicial Stamp Paper of Rs. 100) that he will return the HTRA amount received from the Institute from Jan to September 2021.
	  ii. The scholar has also to indemnify the Institute (in Non-Judicial Stamp Paper of Rs. 100) that
	    a) He will not continue the same work in part or full at any other Institute or University or by self
	    b) He will not do any extension of the current research work done at IIITDM Kancheepuram at any other Institute or University or by self.

	c) He will not carry forward any idea conceived and discussed with his guide in any other organization in future within or outside India. d) He accepts that the research work he has been part of until now in the Institute are the intellectual properties of IIITDM Kancheepuram. e) All papers submitted so far and under review shall not be withdrawn and published elsewhere. f) The papers under preparation will be completed and submitted with Dr. Avinash Kumar, as the corresponding author. In order to ascertain the legal validity, opinion was sought from Shri. Karthik Rajan, the legal advisor of the Institute. The advocate in his advice opinioned that, • No penal consequences have been provided in case of breach of undertaking by the scholars. In the absence of any such specific provisions, the Institute cannot adjudicate its own perceived loss unilaterally. • the Institute has a right to insist that the Research Scholar has to settle his outstanding dues such as semester fees and any other outstanding amounts before seeking relief from the programme. • The Institute may obtain an undertaking in a non-Judicial Stamp Paper of value Rs. 20/, incorporating the clauses to the effect that he will not claim any intellectual property over the research work completed till the date of his relief in the Institute and that he will not continue the same work in any other Institute, etc. • Additionally, an Indemnity Bond in non-Judicial Stamp Paper of value Rs.80 may be obtained to indemnify the Institute in the event of any claim being made by a third party against the Institute with regard to the research work, including but not limited to any intellectual property created pursuant to the research carried on by him in the Institute. On the basis of the above legal opinion, the Institute has collected the fees for the semester July-November 2021 and also the indemnity bonds and after due approval of the Chairman Senate, the student was relieved from his Ph.D program w.e.f. 22.11.2021. ***The Senate noted the status and ratified the decision of the Chairman, Senate on granting relief to Sh. Yathavan.***
2022-47-Senate-18	**Norms for the PG/Ph.D Students Seeking Relief Without Completion of the Program** It has been observed that some of the Ph.D students and few PG students admitted under the HTRA/HTTA scheme are seeking relief and leaving the program within a year or mid-way. This affects the performance of the Institute in respect of number of PhD scholars graduated and the publications. It is noted that certain CFTIs like NIT Trichy are seeking an "Affidavit cum Indemnity Bonds" from PG students and provisions of the bond, inter alia, include a condition to the effect that in case of discontinuance of studies by the students, the students are required to refund the entire amount of scholarship received from the date of commencement of the program. A copy of notification issued by the NIT Trichy is placed as **Annexure I.** In order to have deterrent to discontinue the PG and PhD programme, it is proposed that the institute may seek an Affidavit cum indemnity bond from PG/Ph.D scholars at the time of their admission with a stipulation that in case of discontinuance of studies, the students are to refund 50% of their fellowship amount or Rs.1.00 lakh whichever is lower. These norms will be applicable for the students of PG / Ph. D admitted from July 2022. ***The Senate approved the norms proposed by the Institute applicable for PG/Ph.D students discontinuing their studies mid-way who will be admitted into the programmes from July 2022.***

2022-47-Senate-19	**To ratify the decision of Disciplinary Committee on act of indiscipline and misconduct by student in the Institute on Student disciplinary cases:**
	A case of Mr. Hemanth P, Roll No. MDM18B030 was referred to the Disciplinary and Welfare Committee (DWC) as the student was staying in IITH Hostel from 2nd August to 8th October 2021without requisite permission from the IITH authorities. During his un-authorized stay, he was also caught red-handed by the IITH authorities for his engagement in illegal and notorious activities.
	This incident was reported to the Institute and Dean SA was deputed to visit IITH to ascertain the facts. In the meeting held on 09.10.2021 at IITH, the student confessed his illegal activities and the committee of IITH decided to hand over the student to his father, in the presence of our Dean SA, based on the undertaking submitted by the student as well as the father. A copy of Minutes of the meeting held at IITH is placed as **Annexure J1.**
	Subsequent to this, meeting of the Hostel Disciplinary Committee was conducted on 26.11.2021 and the committee decided to expel the student from hostel for the rest of the study period. The committee further referred the matter to Dean (Academics) for necessary action.
	Accordingly, a meeting of Disciplinary and Welfare Committee (DWC) was held on 30.11.2021. The committee, during course of deliberation, considered the following points:
	1. The student belongs to the final year and he is supposed to carry out the internship work for five months from May to October, whereas he was found indulged in illegal activities which brought disgrace to the Institute. 2. His act of indiscipline may hinder the prospects of his junior batch students to get accepted for internship opportunities in IITH 3. Institute cannot tolerate any act of indiscipline by the students that bring defame and discontent among the peer institutes. 4. It was also brought to the notice of the DWC that the student had manipulated the content of the email from the Institute authorities regarding his supplementary Examination to his advantage after the incident at IITH. 5. The DWC has a strong view that the student requires continuous monitoring and counseling by his family members as well as medical practitioners / psychologists.
	The DWC, after due consideration, recommended that:
	• He shall be suspended from all academic activities for a period of one year from the date of issue of such an order to him. • He should use this year to refrain himself from all such illegal activities with proper counseling from his family and qualified medical practitioners / psychologists. • He can resume completion of his pending academic activities after one year, however he should be completing the same by staying outside the campus and not in Institute hostel.
	In line with recommendation of the committee, with due approval of the Chairman Senate, the institute issued the order for suspension of the student for a period of one year and a copy of order dated 01.12.2021 is placed as **Annexure J2**.
	The Senate noted the status and also ratified the decision of the Chairman Senate on suspension of the student.
2022-47-Senate-20	**Table Agenda: Elective Courses for Approval:**
	An elective course on **SoC Low Power Design and Verification** has been proposed by the Adjunct faculty of the ECE Dept. Mr. Hraiharan Seshadri. The course is very much relevant to VLSI Chip Design Industry and the contents have been vetted by VLSI Industry Experts. Another Elective course on **Introduction to Biometrics** has been proposed by Dr. Rahul Raman, Dept. of CSE, the syllabus of the

	same has been verified by Dr. Surya Prakash, Asso. Professor, IIT Indore and Dr. Pankaj K Sa, Asso. Prof., NIT Rourkela. Both the courses duly approved by the respective DAC have been presented as **Annexure K1 and K2** for the kind perusal of the Senate. *The Senate approved the elective courses proposed by the Institute.*
2022-47-Senate-21	Any other matter with the permission of the Chair
	The Senate was informed about various project grants received by the faculty during this year. The Senate appreciated the efforts of the faculty and also advised the institute to approach various forums including industry for research collaborations.

Sd/-
(Prof. Binsu J Kailath)
Dean Academics

Sd/-
(Shri. A. Chidambaram)
Registrar

Sd/-
(Prof.DVLN Somayajulu)
Chairman