NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

P.O. SRINIVASNAGAR, MANGALURU-575025

MINUTES

OF THE

40th Meeting of

BOARD OF STUDIES

Date   :   09.10.2024 (Wednesday)

Time   :   3:00 PM

Venue   :   Board Room
                          N.I.T.K., Surathkal

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

Minutes of the Fortieth combined Board of Studies (UG, PG & Research) Meeting held on 9th October, 2024 in the Board Room of NITK Surathkal.

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MEMBERS PRESENT

1)	Dr. Dwarakish G.S.	...	Chairman
2)	Dr. Vijay Sai Prasad	...	External Member
3)	Dr. Deepti P.P	...	External Member
4)	Dr. Chittaranjan Hegde	...	Member
5)	Dr. Vasudev M.	...	Member
6)	Dr. Vinatha U.	...	Member
7)	Dr. Uday Kumar Dalimba	...	Special Invitee
8)	Dr. Annappa	...	Special Invitee
9)	Dr. Raghavendra B.S (Representing ECE-HOD)	...	Member
10)	Dr. Debashish Jena	...	Member
11)	Dr. I. Regupathi	...	Member
12)	Dr. S.M. Murigendrappa	...	Member
13)	Dr. Basavaraj Manu	...	Member
14)	Dr. K. Varija	...	Member
15)	Dr. B.R. Shankar (Representing MACS-HOD)	...	Member
16)	Dr. Manu Basavaraju	...	Member
17)	Dr. Darshak Trivedi	...	Member
18)	Dr. Sheena	...	Member
19)	Dr. Geetha V	...	Member
20)	Dr. P.P.Das (Representing Physics-HOD)	...	Member
21)	Dr. Mallikarjun Angadi	...	Member
22)	Ms. Sandhya, AR (Academic) i/c		Secretary

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

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NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

Minutes of Fortieth (40th) BOS meeting held on 09-10-2024 at 3.00 pm in the Board Room

The Chairman (BOS) and Dean (Academic) chaired the meeting and welcomed all the members to the **Fortieth BOS meeting.**

ITEM No. 40-BOS-A: **Confirmation of minutes of 39th meeting of the BOS held on 8th March, 2024 at 3.00 pm in the Board Room.**

The minutes of **Thirty Ninth BOS** meeting was approved as there were no comments received from the members.

ITEM No.: 40-BOS-1	Proposals of Department of Computer Science and Engineering	
(a) MOOC platforms Coursera and Google Cloud Skills boost.		
Proposal	BOS Resolution	
The DFC of the Department of Computer Science and Engineering has proposed to recognize the MOOC platforms Coursera (www.coursera.org) and Google Cloud Skills Boost (https://www.cloudskillsboost.google/) for MOOC platforms can be considered as MOOC credits. Courses in these platforms are offered by Academic and Industry experts, have cutting edge curriculum, follow best pedagogical practices, have continuous assessment and reward certificates after completion of all course assessment components.	The **BOS resolved** that a Committee may be formed with Dean (Academic) as Chairman including other members, HOD-Mechanical, HOD-CSE, HOD-IT, HOD-MACS and Chairman, CDC to look into the curriculum details of private organisation like Coursera, Cloud etc. to consider the MOOC courses for the award of credits.	**For Senate approval**

(b) The B.Tech student needs less than 12 credits in the semester that completes the B.Tech degree credit requirement.

Proposal	BOS Resolution	
The DFC of the Department of Computer Science and Engineering has proposed that "The minimum credits to be earned by the student to complete the B.Tech degree is mentioned in the Suggested Plan of Study for the Degree in the B.Tech Programme Curriculum (say degree Credits). Further, the B.Tech Curriculum quotes a lower limit for course credits to be registered in a semester by a Full Time student of the B.Tech degree programme (say min. Credits). The B.Tech Curriculum also allows a student to acquire credits through MOOC courses after DUGC approval". In the Semester where a student requires less than min. Credits to complete degree Credits, does the student have to register for all the min. credits?	The **BOS resolved** that a Committee may be formed with Dean (Academic) as Chairman and other members, HOD-Mechanical, HOD-CSE, HOD-IT, HOD-MACS and Chairman, CDC to look into the matter of credit requirements.	**For Senate approval**

(c) CGPA calculation in case of credits beyond B.Tech degree.

Proposal	BOS Resolution	
The DFC of the Department of Computer Science and Engineering has proposed that if a student completes more credits beyond the required B.Tech degree credits, the best performance will be considered for CGPA calculation. This happens once in the B.Tech programme.	The **BOS resolved** that a Committee may be formed with Dean (Academic) as Chairman and other members, HOD-Mechanical, HOD-CSE, HOD-IT, HOD-MACS and Chairman, CDC for the consideration of CGPA calculation in case of credits beyond B.Tech degree.	**For Senate approval**

Eg. Student has 8 remaining credits to complete the B.Tech programme. The student takes up 12 credits. For CGPA calculation, the best 8 credits (as much as possible) are to be considered		

(d) Separate question papers for multiple sections with different Course Instructors.

Proposal	BOS Resolution	
The DFC of the Department of Computer Science and Engineering has proposed that "For Programme Specific Core (PSC) and Programme Core (PC) courses handled by different faculty for multiple sections (two or three), the Mid-Semester and End-semester exam question papers may be prepared and evaluated independently".	The **BOS resolved not to recommend** the proposal of the DFC of Department of Computer Science and Engineering regarding separate question papers for multiple sections with different Course Instructors.	**Reporting to Senate**

(e) Admission of M.Tech (Research) – CSE-IS under ISEA Project Phase III – Approval for four additional seat for M.Tech (R) CSE-IS programme from the Academic year 2025-26.

Proposal	BOS Resolution	
The Principal Investigator, ISEA, Project Phase-III requested through the Head of the Department for the approval of four additional seats for M.Tech (Research) CSE-IS programme from the academic year 2025-26. NITK Surathkal is a part of Information Security Education and Awareness (ISEA) Project Phase –III funded by Ministry of Electronics and Information Technology. This is a part of	The **BOS resolved to recommend** for the approval of four additional seat for M.Tech (R) – CSE-IS programme from the Academic year 2025-26 till the duration of project.	**For Senate approval**

"Digital India Programme (DIP)" under the sub scheme "Capacity Building and Skill Development". The objective of this project is to generate manpower in the area of Information Security.		

ITEM No.: 40-BOS-2 Proposals of Department of Electrical and Electronics Engineering

1. Change the course code EE476 to EE377.

Proposal	BOS Resolution	
The DUGC of the Department of Electrical and Electronics Engineering has proposed to change the course code of "Introduction to Nonlinear and Linear Optimization" from **EE476 (3-1-0)** to **EE377 (3-1-0)** taking into account its relevance and appropriate level of competence for UG students.	The **BOS resolved to recommend** the proposal of the DUGC of the Department of Electrical and Electronics Engineering to Change the course code EE476 to EE377.	**For Senate approval**

2. Inclusion of PG Elective courses.

Proposal	BOS Resolution	
The DPGC of the Department of Electrical and Electronics Engineering has proposed to include the following courses as PG electives. 1. **EE878 : Advanced Control Systems Laboratory (0-0-3)2** 2. **EE879 : PV Power Systems Lab (0-0-3)2**	The **BOS resolved to recommend** the proposal of the DPGC of the Department of Electrical and Electronics Engineering for inclusion of PG Elective courses.	**For Senate approval**

ITEM No.: 40-BOS-3 Proposals of Department of Information Technology

1. Minor changes in the MLC course B.Tech (IT).

Proposal	BOS Resolution	
The DFC of the department of Information Technology has proposed to change of IT440 MLC course for the 8-12 weeks of practical training during summer vacation for the students of batches 2022, 2023, 2024 and 2025.	The **BOS resolved to recommend** the proposal of the DFC of the Department of Information Technology for the change of IT440 MLC course (B.Tech-IT) for 8-12 weeks of practical training during summer vacation for the students of 2022, 2023 & 2024 batches.	**For Senate approval**

2. Minor changes in the MLC course B.Tech (AI).

Proposal	BOS Resolution	
The DFC of the department of Information Technology has proposed to change of **IT447 MLC** course (B.Tech-AI)for the 8-12 weeks of practical training during summer vacation for the students of batches 2022, 2023, 2024 and 2025	The **BOS resolved to recommend** the proposal of the DFC of the Department of Information Technology for the change of IT447 MLC course (B.Tech-AI) for 8-12 weeks of practical training during summer vacation for the students of 2022, 2023 & 2024 batches.	**For Senate approval**

3. Changes in the syllabus of IT250 as two separate subjects (One core and One Elective).

Proposal	BOS Resolution	
The DFC of the Department of Information Technology has proposed for the changes in the syllabus of **IT250** as two separate subjects (One core and One Elective).	The **BOS resolved to recommend** the proposal of the DFC of Department of Information Technology for the changes in the syllabus of **IT250** as two separate	**For Senate approval**

IT250: Formal Languages and Automata Theory [B.Tech(IT)] (3-1-0)4 – PC **IT484: Compiler Design [B.Tech(IT)] (3-1-0)4 - Elective**	subjects (One core and One Elective).	

4. Minor changes in LTP of IT203 course.

Proposal	BOS Resolution	
The DFC of the Department of Information Technology has proposed for minor changes in **IT203 – Discrete Mathematics** (3-0-0)3 as **IT203 – Discrete Mathematics** (3-1-0)4	The **BOS resolved to recommend** the proposal of the DFC of Department of Information Technology for minor changes in **IT203 – Discrete Mathematics** (3-0-0)3 as **IT203 – Discrete Mathematics** (3-1-0)4	**For Senate approval**

5. Introducing new elective courses for B.Tech (IT).

Proposal	BOS Resolution	
The DFC of the Department of Information Technology has proposed to introduce the following new elective courses in the B.Tech (IT) programme. **IT485: Large Language Models (3-0-2)4 – Elective** **IT486: Applied Algorithms (3-0-2)4 - Elective**	The **BOS resolved to recommend** the proposal of the DFC of Department of Information Technology to introduce the new elective courses in the B.Tech (IT) programme	**For Senate approval**

6. Introducing new elective course for B.Tech (AI).

Proposal	BOS Resolution	
The DFC of the Department of Information Technology has proposed to introduce the following new elective course in the B.Tech (AI) programme.	The **BOS resolved to recommend** the proposal of the DFC of Department of Information Technology to introduce the new elective course in the B.Tech(AI) programme – Randomized	**For Senate approval**

IT482: Randomized Algorithms (3-1-0) - Elective	Algorithms.	

7. Minor in B.Tech IT

Proposal	BOS Resolution	
The DFC of the Department of Information Technology has proposed to have only one Minor in B.Tech (IT). **Interdisciplinary Minor – Machine Learning** due to resource constraint.	The **BOS resolved not to recommend** the proposal of the DFC of Department of Information Technology due to students demand for the course.	**Reporting to Senate**

8. Minor changes in credits and syllabus of IT820.

Proposal	BOS Resolution	
The DFC of the Department of Information Technology has proposed minor changes in credits and syllabus of **IT820-Information Technology for Health Care (3-0-2)4.**	The **BOS resolved to recommend** the proposal of the DFC of Department of Information Technology for the minor changes in credits and syllabus of IT820.	**For Senate approval**

9. Inclusion of new 900 level course.

Proposal	BOS Resolution	
The DFC of the Department of Information Technology has proposed the new Elective for PhD900 level self-study course **IT937.** **IT937 – Post Quantum Computing 4.**	The **BOS resolved to recommend** the proposal of the DFC of Department of Information Technology to include the 900 level course IT937.	**For Senate approval**

ITEM No.: 40-BOS-4 Proposals of Department of Mathematical and Computational Sciences.

a) Inclusion of new elective in B.Tech (CDS)

Proposal	BOS Resolution	
The DUGC of the Department of Mathematical and Computational Sciences has proposed to include the following new Elective course for the B.Tech Programme-Computational Data Science. **MA540: Data Analysis and Visualization (3-0-0)3** **MA541: Artificial Neural Networks (3-0-0)3** **MA542: Computer Vision (3-0-0)3** **MA543: Data Compression and Coding (3-0-0)3** **MA544: Deep Learning (3-0-0)3** **MA545: Probabilistic Graphical Models (3-0-0)3**	The **BOS resolved to recommend** the proposal of the DUGC of the Department of Mathematical and Computational Sciences to include the new Elective courses for the B.Tech Programme-Computational Data Science. The BOS also informed to start the course code with 3 series instead 5.	**For Senate approval**

(b) Discontinue the Minor in Machine Learning.

Proposal	BOS Resolution	
The DUGC of the Department of Mathematical and Computational Sciences has recommended to discontinue the Minor in Machine Learning that includes **MA212M & MA309M** (out of the 4 common course offered along with CS & IT departments) due to shortage of faculty.	The **BOS resolved not to recommend** the proposal of the DUGC of Department of Mathematical and Computational Sciences as per the students demand for the course.	**Reporting to Senate**

ITEM No.: 40-BOS-5 Proposals of Department of Physics

1. Inclusion of Additional Guides.

Proposal	BOS Resolution	
The DRPC of Department of Physics has proposed to include Dr. Sib Sankar Mal (Chemistry) and Dr. Sushil K. Pandey (ECE) as additional guides for Hanchate Aniket Gopinath, a full time research scholar working under the guidance of Dr. Partha Pratim Das.	In principle it is recommended to consider the inclusion of additional guides.	**For Senate approval**

ITEM No.: 40-BOS-6 Proposals of the School of Humanities, Social Sciences and Management.

1. The Division of the School of HSSM into two departments viz., Department of Humanities and Social Sciences and Department of Entrepreneurship and Management.

Proposal	BOS Resolution	
The DFC of the School of HSSM has proposed to divide the School of HSSM into two Departments viz; Department of Humanities and Social Science and Department of Entrepreneurship and Management.	The **BOS resolved to recommend** the proposal of DFC of the School of HSSM to divide the School of HSSM into two Departments viz; Department of Humanities and Social Science and Department of Entrepreneurship and Management.	**For Senate approval**

ITEM No.: 40-BOS-7 Inclusion of External Additional Guides.

a) Department of Mining Engineering

Proposal	BOS Resolution	
The DRPC of Department of Mining Engineering has proposed that Dr. Sachida Nanda Sahu, Principal Scientist, CSIT-IMMT Bhubaneshwar to be considered as Co-Guide for the Ph.D student Mr. Raghunath Reddy.	The **BOS resolved not to consider** the proposal of Mining Engineering.	**Reporting to Senate**

Meeting ended with the vote of thanks to the Chair.

Saudhya

Secretary-BOS, NITK

G. S. _____ 12/11/24

Chairman-BOS-NITK