P.O. SRINIVASNAGAR, MANGALURU-575025



MINUTES OF THE 39th BOS Meeting

Date : 08.03.2024 (Friday)

Time : 03:00 PM

Venue : Board Room

N.I.T.K., Surathkal

MANGALURU

PIN - 575 025

Minutes of the Thirty Ninth combined Board of Studies (UG, PG & Research) Meeting held on Friday, 8th March 2024 in the Board Room of NITK Surathkal.

MEMBERS PRESENT

1)	Prof. Dwarakish G.S.	 Chairman
2)	Mr. K. Ravindranath	 Member
3)	Dr. Vijay Sai Prasad	 External Member
4)	Prof. Deepti P.P	 External Member
5)	Prof. Udaya Bhat	 Member
6)	Prof. Arun M.	 Member
7)	Prof. U. Sripathi Bhat	 Member
8)	Prof. Vasudev	 Member
9)	Prof. Neelavar Shekhar Shet	 Member
10)	Prof. Dattatreya Gaonkar	 Member
11)	Prof. I. Regupathi	 Member
12)	Prof. S.M. Murigendrappa	 Member
13)	Prof. Subhash C. Yaragal	 Member
14)	Prof. K. Varija	 Member
15)	Prof. Sam Johnson	 Member
16)	Dr. Manu Basavaraju	 Member
17)	Dr. Darshak Trivedi	 Member
18)	Dr. Sheena	 Member
19)	Dr. Geetha V	 Member
20)	Dr. Kum Kum Banerjee	 Member
21)	Dr. Karthik Taraffdar	 Member
22)	Dr. Mallikarjun Angadi	 Member
23)	Ms. Sandhya AR (Academic) i	Secretary

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Minutes of Thirty Ninth (39th) BOS meeting held on 08-03-2024 (Friday) at 3.00 pm in the Board Room

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

ITEM No. 39-BOS-A: Confirmation of minutes of 38th meeting of the BOS held on 13th March, 2023 3.00 pm in the Board Room.

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

a) Inclusion of the elective Engineering.	BOS Resolution	mical
	BOS Resolution	
Proposal		
Chemical Engineering has proposed to include the following elective course for the M.Tech Chemical Engineering	The BOS resolved to recommend the proposal of the DFC of Department of Chemical Engineering for the inclusion of the elective course.	For Senate approval

Proposal	BOS Resolution	
The DFC of the Department of Chemical Engineering has proposed to include the following elective course for M.Tech (Environmental Science and Technology) and M.Tech (Industrial Biotechnology). CH815: Molecular Simulations The details are attached as an Annexure-I, Page No. 3	recommend the proposal of the DFC of the Department of Chemical Engineering for	For Senate approval

(c) Correction of Typo/oversight errors in the PG curriculum 2022

Proposal	BOS Resolution	
The DFC of the Department of Chemical Engineering has proposed for correction of typo/oversight errors in the PG Curriculum 2022 as below: 1. The contents of the courses 'CH814 Polymerization Reaction Engineering' and 'CH815 Molecular Simulations' are interchanged. However, the course names for CH814 and CH815 are correct.	The BOS resolved to recommend the proposal of the DFC of the Department of Chemical Engineering for the correction of typo/oversight errors in the PG Curriculum 2022.	For Senate approval
2. The course name for 'CH816 Introduction to Quantum Technology' has to be changed as "CH816 Introduction to Quantum Technology for Chemical Engineers". The details are attached as an Annexure-I, Page No. 3&5		

ITEM No.: 39-BOS-2 Proposals of Department of Civil Engineering

a) Introduction of new course in PG programme – Environmental Engineering.

Proposal	BOS Resolution	
The DFC of the Department of Civil Engineering has proposed to introduce the following new elective course in Postgraduate programme Environmental Engineering. CV859: Indoor Air Quality (3-0-0)3 The details are attached as Annexure - II Page No. 1	The BOS resolved to recommend the proposal of the DFC of Department of Civil Engineering for the introduction of new elective course CV859.	For Senate approva

Proposal	BOS Resolution	
The DFC of the Department of Civil Engineering has proposed to revise and rename the following course. Existing: CV266: Geology Lab (0-0-3)2	The BOS resolved that Lab content revision may be taken during major revision of curriculum.	Reporting to Senate
Proposed Revision: CV266: Engineering Geology Lab (0-0-3)2		

Proposal	BOS Resolution	
The DFC of the Department of Civil Engineering has proposed to swap the courses between two existing subjects. Existing:	The BOS resolved to recommend the proposal of the DFC of Department of Civil Engineering for swapping of courses.	For Senate approval
CV386 : Rock Mechanics (3-0-0)3		
Revision proposed : CV375 : Rock Mechanics ((3-0-0)3		
Existing: CV375: Applied Rock Engineering (3-0-0)3		
Revision proposed : CV386: Applied Rock Engineering (3-0-0)3		
The details are attached as an Annexure-II, Page No. 2,3		

d) Additional course in M.Tech - Proposal	BOS Resolution	
The DFC of the Department of Civil Engineering has proposed to add the following course in the PG programme – Geotechnical Engg.	The BOS resolved that addition of PG core course may be taken up during major revision of curriculum.	Reporting to Senate
CV728 : Geotextile Testing Laboratory (0-0-3)2		

Proposal	BOS Resolution	
The DFC of the Department of Civil Engineering has proposed to add the following course in the UG programme as elective. CV492: Reinforced Earth Structures (3-0-0)3 The details are attached as an Annexure-II, Page No. 4	The BOS resolved to recommend the proposal of the DFC of Department of Civil Engineering for the additional course in UG programme as elective.	For Senate approva

f) Additional course in M.Tech - Proposal	BOS Resolution	
The DFC of the Department of Civil Engineering has proposed to add the following course in M.Tech Geotechnical Engineering as an elective.	The BOS resolved to recommend the proposal of the DFC of Department of Civil Engineering for the additional course in M.Tech	For Senate approva
CV835: Geotextiles for Sustainable Infrastructure (3-0-0)3	Geotechnical Engineering as elective	
The details are attached as an Annexure-II, Page No. 4		

BOS resolved to	
ommend the proposal of the C of Department of Civil gineering for the revision	For Senate approva
(commend the proposal of the C of Department of Civil gineering for the revision the elective course

ITEM No.: 39-BOS-3 Proposals of Department of Computer Science and Engineering

Proposal	BOS Resolution	
The DFC of the Department of Computer Science and Engineering has proposed to introduce the following new elective courses for UG Programme. CS346: Computing in Autonomous Vehicles (3-1-0)4 CS321: Full Stack Development (3-1-0)4	The BOS resolved to recommend the proposal of the DFC of Department of Computer Science and Engineering to introduce the new elective courses for UG programme. However, the BOS also resolved to recommend no pre-requisite required for the proposed electives.	For Senate approval
CS368: Security Engineering (3-1-0)4		
CS369: Approximation Algorithms (3-1-0)4		
CS370: Parameterized Algorithms (3-1-0)4		

CS371: Computational Complexity
(3-1-0)4

CS372: Randomized Algorithms
(3-1-0)4

CS322: Graph Drawing (3-1-0)4

The details are attached as an Annexure-III, Page No. 1-6

Proposal	BOS Resolution	
The DFC of the Department of Computer Science and Engineering has proposed to introduce the following new elective courses for PG Programme. CS742: Computational Acceleration in Autonomous Vehicles (3-1-0)4 CS743: Geometric Algorithms (3-1-0)4	recommend the proposal of the DFC of Department of Computer Science and Engineering to introduce the new elective courses for PG	For Senate approval
The details are attached as an Annexure-II, Page No. 5		

ITEM No.: 39-BOS-4 Proposals of Department of Electrical and Electronics Engineering

a) Modifications in the course content and LTP structure in the following PG courses.

Proposal	BOS Resolution	
The DPGC of the Department of Electrical and Electronics Engineering has proposed the following modifications in the Course content and LTP structures.	recommend the proposal of the DPGC of the Department of	For Senate approval

EE852: PV Power Systems
(3-0-0)3 to (3-1-0)4

EE854: Distributed Generation
(3-0-0)3 to (3-1-0)4

EE876: Digital Controllers and Applications in Power Electronics
(4-0-0)4 to (3-0-2)4

EE808: Finite Element Methods and Applications (3-0-0)3 to (3-0-2)4

The details are attached as an Annexure-IV, Page No. 1,2

b) Modifications in the course title, content and LTP structure of EE875 course.

EE873 Course.		
Proposal	BOS Resolution	
The DPGC of the Department of Electrical and Electronics Engineering has proposed the following modifications in the Course title, content and LTP structure of EE875 course. EE875: Fundamentals of Electric Vehicles (EVs) (4-0-0)4 To EE875: Electric Vehicle Technology (3-0-2)4 The details are attached as an Annexure-IV, Page No. 2	recommend the proposal of the DPGC of the Department of Electrical and Electronics Engineering for the modifications in the Course title, content and LTP structure	For Senate approval

c) Description of Grades in the UG Curriculum.

Proposal	BOS Resolution	
The DUGC of the Department of Electrical and Electronics Engineering has proposed to recommend the following points.	matter can be proposed in the	Reporting to Senate

"Making an entry on the grade card for any courses with either FA or FF can be dropped. Only such courses wherein student earns credits in any semester may be shown on the grade card".

The details are attached as an Annexure-IV, Page No. 2

d. Modifications in the course content and LTP structure in the following UG course.

Proposal	BOS Resolution	
The DUGC of the Department of Electrical and Electronics Engineering has proposed the following modifications in the Course content and LTP structure in the UG course. EE301: Data Structures and	recommend the proposal of the DUGC of the Department of Electrical and Electronics Engineering for the modifications in the Course	For Senate approval
Algorithms (3-1-0)4 to (3-0-2)4	the UG course EE301.	
The details are attached as an Annexure-IV, Page No. 4		

e) Introduction of two new courses as electives in the B.Tech programme.

programme.		
Proposal	BOS Resolution	
The DUGC of the Department of Electrical and Electronics Engineering has proposed to introduce the following two new elective courses in the B.Tech programme curriculum. EE450: Fundamentals of Electric Vehicles (3-1-0)4 EE403: Deep Neural Network and Applications (3-0-2)4 The details are attached as an Annexure-IV, Page No. 4,5	recommend the proposal of the DUGC of the Department of	For Senate approval

ITEM No.: 39-BOS-5 Proposals of Department of Information Technology

a) Minor changes in the programme specific electives of B.Tech (AI).

Proposal	BOS Resolution	E
The DFC of the department of Information Technology has proposed to remove the constraint mentioned in Programme Specific Electives (PSE) "Atleast 7 electives with (3-0-2)4 credit courses should be selected [Two courses must be taken from each cluster]". The details are attached as an Annexure-V, Page No. 2	recommend the proposal of the DFC of the Department of Information Technology to remove the constraint mentioned in PSE.	For Senate approval

b) Offering only one B.Tech (IT) Minor program from department of IT

Proposal	BOS Resolution	
The DFC of the department of Information Technology has proposed to offer only one B.Tech Minor program as B.Tech (IT) Minor from the year 2024-25 onwards instead of earlier offering two B.Tech programs B.Tech (IT) and B.Tech AI).	matter can be proposed in the	Reporting to Senate

c) Introducing new elective course for B.Tech (IT) Proposal BOS Resolution he DFC of the Department of Transport For

The DFC of the Department of Information Technology has The BOS resolved to recommend the proposal of the

For Senate approval

proposed to following new ethe B.Tech (IT) proposed to following new ethe B.Tech (IT) proposed (3-1-0)4	lective course in	DFC of Department of Information Technology to introduce the new elective course in the B.Tech (IT) programme.
The details are Annexure-V, Pag	attached as an	

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.	recommend the proposal of the	For Senate approva
Applied Algorithms (3-1-0)4	course in the B.Tech (AI) programme.	
The details are attached as an Annexure-V, Page No. 1,4		

Proposal	BOS Resolution	
The DFC of the Department of Information Technology has proposed to introduce the following new elective courses in the M.Tech (IT) programme. Design of Secure Protocols (3-1-0)4	recommend the proposal of the DFC of Department of Information Technology to introduce the new elective	For Senate approval
Approximation Algorithms 3-1-0)4		
The details are attached as an Annexure-V, Page No. 1,3		

ITEM No.: 39-BOS-6 Proposals of Department of Mathematical and Computational Sciences

Proposal	BOS Resolution	
The DFC 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. MA539: Multivariate Statistical Analysis (3-0-0)3	The BOS resolved to recommend the proposal of the DFC of the Department of Mathematical and Computational Sciences to include the new Elective course for the B.Tech Programme Computational Data Science.	For Senate approval
The details are provided in Annexure-VI Page-1		

b) Inclusion of new electives in M.Tech (CDS) Proposal **BOS** Resolution The DFC of the Department of The BOS resolved to For Mathematical and Computational recommend the proposal of the Senate Sciences has proposed to include DFC of the Department of approval the following new elective courses Mathematical and M.Tech for the Program Computational Sciences to Computational Data Science. include the new Elective M.Tech courses for the MA872: Probabilistic Graphical Programme Computational Models (3-0-0)3 Data Science MA873: Data Analysis and Visualization (3-0-0)3 MA874: Deep Learning (3-0-0)3 Artificial MA875: Neural Networks (3-0-0)3 MA876: Estimation Theory (3-0-0)3The details are provided in Annexure-VI Page-2.

Proposal	BOS Resolution	
The DFC of the Department of Mathematical and Computational Sciences has proposed to include the following 900 level courses.	recommend the proposal of the DFC of the Department of Mathematical and	For Senate approval
MA949: Numerical Linea Algebra (4-0-0)4	include the 900 level courses.	
MA950: Matrix Analysi (4-0-0)4	S	
MA951: Iteration Theor (4-0-0)4	У	
MA952: Cryptography (4-0-0)4		
MA953: Domination in Graph (4-0-0)4	s	
MA954: Sampling Theory an Methods (4-0-0)4	d	

a) Modification in the Course		
Proposal	BOS Resolution	
The DFC of the Department of Physics has proposed the following modifications in the following course. PH755:Computational Physics (3-0-1)4	The BOS resolved that modification in the course PH755 may be taken up during major revision of curriculum as it is a core course.	Reporting to Senate

Proposal	BOS Resolution	
The DFC of the Department of Physics has proposed to introduce the following new elective course in M.Sc. Physics.	The BOS resolved to recommend the proposal of the DFC of the Department of Physics to introduce the new elective course.	For Senate approval
Basics of Quantum Computing (3-0-2)4		
The details are provided in Annexure-VII Page-2		

ITEM No.: 39-BOS-8 Inclusion of External Additional Guides

a) Department of Chemical Engineering

Proposal	BOS Resolution	
The DRPC of Department of Chemical Engineering has proposed that Dr. Ranjana Ray Chaudhari, Associate Professor and Head, Department of Regional Water Studies, TERI School of Advanced Studies, New Delhi to be considered as an additional Research Guide for the M.Tech (Research) student Mr. Sushil Kumar. The details are enclosed as Annexure VIII Page: 1-9	Dr. Ranjana Ray Chaudhari, Associate Professor and Head, Department of Regional Water Studies, TERI School of Advanced Studies, New Delhi as an additional Research Guide for the M.Tech (Research)	For Senate approval

Proposal	BOS Resolution	
The DRPC of Department of Mechanical Engineering has proposed that Dr. Yogeesh D. Kamat, Consultant Specialist, Hip & Knee Surgeon, Department of Orthopedics, KMC, Mangaluru to be considered as an additional Research Guide for the Ph.D student Mr. Bishwaranjan Das. The details are enclosed as Annexure VIII Page: 10-23.	The BOS resolved to consider Dr. Yogeesh D. Kamat, Consultant Specialist, Hip and Knee Surgeon, Department of Orthopedics, KMC, Mangaluru as an additional Research Guide for the Ph.D student Mr. Bishwaranjan Das.	For Senate approval

Proposal	BOS Resolution	
The DRPC of Department of Metallurgical and Materials Engineering has proposed that Dr. Avinash L., Assistant Professor, Department of Mechanical Engineering, Nitte Meenakshi Institute of Technology, Bengaluru to be considered as an additional Research Guide for the Ph.D student Ms. Preethi J. Aradhya. The details are enclosed as Annexure VIII Page: 24-42.	Dr. Avinash L., Assistant Professor, Department of Mechanical Engineering, Nitte Meenakshi Institute of Technology, Bengaluru as an additional Research Guide for the Ph.D student	For Senate approval

ITEM No.: 39-BOS-9 Recognition as Ph.D Research Guide (Internal)

The BOS noted the recognition of the following faculty members as Ph.D Guides after the 38th BOS meeting based on the recommendations of the respective DRPC.

Department	Name	Designation	Ph.D from Institute
Civil Engg.	Dr. Jacklin Jeke Nilling	Assistant Professor	IIT Kanpur
Civil Engg.	Dr. Saranya P	Assistant Professor	IIT Madras
Computer Science & Engg.	Dr. Shridhar Sanshi	Assistant Professor	NITK Surathkal
Computer Science & Engg.	Dr. Manjanna B	Assistant Professor	IIT Guwahati
E& C Engg.	Dr. Bini A A	Assistant Professor	NITK Surathkal
E& C Engg.	Dr, Shikha Baghel	Assistant Professor	IIT Guwahati
Information Technology	Dr. Purushothama B R	Associate Professor	NIT Warangal
Information Technology	Dr. Janani T	Assistant Professor	NIT Tiruchirappalli
Information Technology	Dr. Dinesh Naik	Assistant Professor	NITK Surathkal
MACS	Dr. Pushpajit A Khaire	Assistant Professor	VNIT Nagpur
MACS	Dr. Samadrita Bera	Assistant Professor	IIT Dhanbad
MACS	Dr. Vidyadhar Upadhya	Assistant Professor	IISc. Bangalore
Metallurgical and Materials Engg.	Dr. Lipak Kumar Sahoo	Assistant Professor	IIT Madras
School of Humanities, Social Sciences and Mgt.	Dr. Rahul Sivarajan	Assistant Professor	TATA Institute of Social Sciences, Mumbai

Also requested the Senate to approve the proposal that all the Assistant Professors are to be recognized as Research Guides from the date of joining

The Associate Dean (UG) proposed the vote of thanks to the members.

Secretary-BOS, NITK

Chairman-BOS-NITK

Reporting to Senate

Minutes