

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL
P.O. SRINIVASNAGAR, MANGALURU-575025



MINUTES
OF THE
41st Meeting of
BOARD OF STUDIES

Date : 21-03-2025 (Friday)
Time : 3:00 PM
Venue : CCMT Hall
N.I.T.K., Surathkal

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA,
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Minutes of the Forty First combined Board of Studies (UG, PG & Research) Meeting held on Friday, 21st March 2025 in CCMT Hall, NITK Surathkal.

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MEMBERS PRESENT

1)	Dr. Dwarakish G.S.	...	Chairman
2)	Dr. Deepti P.P	...	External Member (Online mode)
3)	Dr. Chittaranjan Hegde	...	Member
4)	Dr. K.V. Gangadharan	...	Member
5)	Dr. Vasudev M.	...	Member
6)	Dr. Vinatha U.	...	Member
7)	Dr. Arun M.	...	Member
8)	Dr. Uday Kumar Dalimba	...	Special Invitee
9)	Dr. Neelavar Shekhar V. Shet	...	Member
10)	Dr. Debashish Jena	...	Member
11)	Dr. I. Regupathi	...	Member
12)	Dr. S.M. Murigendrappa	...	Member
13)	Dr. K. Varija	...	Member
14)	Dr. Sam Johnson	...	Member
15)	Dr. B.R. Chandavarkar	...	Member
16)	Dr. Darshak Trivedi	...	Member
17)	Dr. Rithanjali Mahji	...	Member
18)	Dr. Geetha V	...	Member
19)	Dr. Kum Kum Banerjee	...	Member
20)	Dr. Karthik Taraffdar	...	Member
21)	Dr. Suresh S.N.	...	Member
	(Representing HOD, Civil)		
22)	Dr. Mallikarjun Angadi	...	Member
23)	Ms. Sandhya, AR (Academic)	...	Secretary

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**Minutes of Forty First (41st) BOS meeting held on
21-03-2025 (Friday) at 3.00 pm in CCMT Hall**

The Chairman (BOS) welcomed all the members to the Forty First BOS meeting.

ITEM No. 41-BOS-A: Confirmation of minutes of 40th meeting of the BOS held on 9th October, 2024 at 3.00 pm in the Board Room.

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

**ITEM No.: 41-BOS-1 PROPOSALS OF DEPARTMENT OF
CHEMICAL ENGINEERING**

(a) Inclusion of new elective course in M.Tech (Environmental Science and Technology).

Proposal	BOS Resolution	For Senate approval
<p>The DFC of the Department of Chemical Engineering has proposed to include the following new Elective course for the M.Tech Programme- Environmental Science and Technology.</p> <p>CH839: Hydrogen Technology (3-0-0)3</p> <p>The details are attached as Annexure-I.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Chemical Engineering for the inclusion of the elective course CH839 for M.Tech (Environmental Science and Technology).</p>	

(b) Inclusion of new elective course in M.Tech (Chemical Engineering).

Proposal	BOS Resolution	For Senate approval
<p>The DFC of the Department of Chemical Engineering has proposed to include the following new Elective course for the M.Tech Programme- Chemical Engineering.</p> <p>CH818: Optoelectronic Semiconductor Materials Processing (3-0-0)3</p> <p>The details are attached as Annexure-I.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Chemical Engineering for the inclusion of the elective course CH818 for M.Tech (Chemical Engineering).</p>	

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(c) Removal of the courses

Proposal	BOS Resolution	For Senate approval
<p>The DFC of the Department of Chemical Engineering has proposed to remove the following elective courses of M.Tech (Environmental Science and Technology) as these are repetition.</p> <p>CH838: Sustainable Technologies (3-0-0)3</p> <p>CH833: Bioremediation Technique (3-0-0)3</p> <p>The details are provided in Annexure-I.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Chemical Engineering to remove the elective courses of M.Tech (Environmental Science and Technology) as they are repetitive courses.</p>	

ITEM No.: 41-BOS-2 PROPOSALS OF DEPARTMENT OF CHEMISTRY

(a) Inclusion of new elective course for M.Sc Chemistry

Proposal	BOS Resolution	For Senate approval
<p>The DPGC of the department of Chemistry has proposed for the inclusion of the following new elective course for M.Sc. Chemistry from 2025-26 onwards.</p> <p>CY-887: Physical Chemistry of Biological Systems (3-0-0)3</p> <p>The details are provided in Annexure - II.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Chemistry to include the new elective course for M.Sc. Chemistry.</p>	

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ITEM NO.: 41-BOS-3: PROPOSALS OF DEPARTMENT OF CIVIL ENGINEERING

(a) Inclusion of new elective course for B.Tech Civil Engineering.

Proposal	BOS Resolution	
<p>The DFC of the Department of Civil Engineering has proposed to include the following new Elective course for B.Tech Civil Engineering.</p> <p>CV377: Remote Sensing and GIS (3-0-0)3</p> <p>The details are provided in Annexure-III.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Civil Engineering for the inclusion of the new elective course CV377 for B.Tech-Civil Engineering.</p>	<p>For Senate approval</p>

(b) Inclusion of new elective course for M.Tech Transportation Engineering.

Proposal	BOS Resolution	
<p>The DFC of the Department of Civil Engineering has proposed to include the following new Elective course for M.Tech - Transportation Engineering.</p> <p>CV855: Sustainable and Resilient Pavements (3-0-0)3</p> <p>The details are provided in Annexure-III.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Civil Engineering for the inclusion of the new elective course for M.Tech-Transportation Engg.</p>	<p>For Senate approval</p>

(c) Inclusion of new elective courses for M.Tech Geotechnical Engineering.

Proposal	BOS Resolution	
<p>The DFC of the Department of Civil Engineering has proposed to include the following new Elective courses for M.Tech-Geotechnical Engineering.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Civil Engineering for the inclusion of the new</p>	<p>For Senate approval</p>

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CV835: Coastal and Offshore Geotechnical Engineering (3-0-0)3 CV836: Forensic Geotechnical Engineering (3-0-0)3 The details are provided in Annexure-III.	elective courses for M.Tech-Geotechnical Engg.	
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(d) Modification in the course content of elective course for PG programme.

Proposal	BOS Resolution	
The DFC of the Department of Civil Engineering has proposed the content modification in the following elective course for PG Programme – M.Tech Geotechnical Engineering (PSE). CV821: Rock Mechanics and Tunneling Engineering (3-0-0)3 The details are provided in Annexure-III.	The BOS resolved to recommend the proposal of the DFC of the Department of Civil Engineering for content modification of elective course CV821 of PG programme M.Tech-Geotechnical Engineering.	For Senate approval

ITEM NO.: 41-BOS-4: PROPOSALS OF DEPARTMENT OF COMPUTER ENGINEERING

(a) Avoid marking “FF/FA” in grade cards for not completed minor/honors courses of discontinued/not eligible minor/honors students (refer to 3.7(E), 3.8(C) and 3.9(E) in curriculum).

Proposal	BOS Resolution	
The DFC of the Department of Computer Science and Engineering has proposed to avoid marking “FF/FA” in grade cards for not completed minor/honors courses of discontinued/not eligible minor/ honors students.	The BOS resolved to recommend to issue two separate grade cards. (i) Major programme (ii) Minor/honor programme	For Senate approval

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(b) Inclusion of new elective course for B.Tech CSE.		
Proposal	BOS Resolution	For Senate approval
<p>The DFC of the Department of Computer Science and Engineering has proposed to include the following new elective course for B.Tech-CSE.</p> <p>CS373: Combinatorial Optimization (3-1-0)4</p> <p>The details are provided in Annexure – IV.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Computer Science and Engineering for the inclusion of the new elective course for B.Tech-CSE.</p>	

(c) Inclusion of new elective course for M.Tech CSE/CSE-IS		
Proposal	BOS Resolution	For Senate approval
<p>The DFC of the Department of Computer Science and Engineering has proposed to include the following new elective course for M.Tech CSE/CSE-IS.</p> <p>CS747: Advanced Graph Theory (3-1-0)4</p> <p>The details are provided in Annexure – IV.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Computer Science and Engineering for the inclusion of the new elective course for M.Tech-CSE/CSE-IS.</p>	

ITEM No: 41-BOS 5: PROPOSALS OF DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

- (a) To extend the M.Tech (Power Electronics and Control for Electric Vehicle) PG course to all relevant industry employees (Online classes with offline exams).**

Proposal	BOS Resolution	For Senate approval
<p>The DPGC of the Department of Electrical and Electronics Engineering has proposed to open the M.Tech Programme in Power Electronics and Control for Electric Vehicles to employees for all relevant industries. This programme is an extension of the</p>	<p>The BOS resolved to recommend the proposal of the DPGC of the Department of Electrical and Electronics Engineering to extend the M.Tech Programme in Power</p>	

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currently running M.Tech programme for BGSW (Bosch Global Software Technologies), Bengaluru ensuring broader participation and knowledge exchange. The details are provided in Annexure – V.	Electronics and Control for Electric Vehicles to employees from all relevant industries.	
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**ITEM No: 41-BOS 6: PROPOSALS OF DEPARTMENT OF
MATHEMATICAL AND COMPUTATIONAL
SCIENCES**

(a) Inclusion of new 900 level courses.

Proposal	BOS Resolution	
<p>The DFC of the Department of Mathematical and Computational Sciences has proposed to include the following 900 level courses in Ph.D.</p> <p>MA955: K-theory for C^*-algebras (4-0-0)4 MA956: Banach Space Theory (4-0-0)4 MA957: Decision Theory (4-0-0)4 MA958: Statistical Inference (4-0-0)4 MA959: Multivariate Analysis (4-0-0)4</p> <p>The details are provided in Annexure- VI.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Mathematical and Computational Sciences to include the 900 level courses.</p>	<p>For Senate approval</p>

(b) Inclusion of new elective course in B.Tech (CDS).

Proposal	BOS Resolution	
<p>The DFC of the Department of Mathematical and Computational Sciences has proposed to include the following elective course in B.Tech (CDS).</p> <p>MA546: Topological Data Analysis (3-0-0)3</p> <p>The details are provided in Annexure - VI.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Mathematical and Computational Sciences to include the new Elective course in B.Tech Programme – Computational Data Science.</p>	<p>For Senate approval</p>

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**ITEM No: 41-BOS 7 PROPOSALS OF THE SCHOOL OF HUMANITIES,
SOCIAL SCIENCES AND MANAGEMENT**

(a) Inclusion of new open electives in UG programme.

Proposal	BOS Resolution	For Senate approval
<p>The DFC of the School of HSSM has proposed to include the following new open elective courses for the UG programme.</p> <p>SM461: Positive Psychology (3-0-0)3</p> <p>SM462: Linguistic Foundation and its Application (3-0-0)3</p> <p>SM463: Introduction to Indian Knowledge System (2-0-2)3</p> <p>The details are provided in Annexure - VII.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of School of HSSM to include the new open elective courses for the UG programme.</p>	

(b)Inclusion of new elective course for PG under HR Elective.

Proposal	BOS Resolution	For Senate approval
<p>The DFC of the School of HSSM has proposed to include the following new elective course for PG under HR Elective.</p> <p>SM818: Strategic Resourcing and Talent Management (2-0-2)3</p> <p>The details are provided in Annexure - VII.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of School of HSSM to include the new elective course for the PG programme under HR Elective.</p>	

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ITEM No: 41-BOS 8: PROPOSALS OF DEPARTMENT OF WATER RESOURCES AND OCEAN ENGINEERING

(a) Modification in the LTP structure and adding the technical content in the PG course.

Proposal	BOS Resolution	For Senate approval
<p>The DFC of the department of Water Resources and Ocean Engineering has proposed the following modifications in the LTP structure and added the technical content to the following course.</p> <p>WO820: Offshore Renewable Energy (3-0-0)3 to (2-0-2)3</p> <p>WO820: Offshore Renewable Energy: Added Technical Content: "Practical Training on Wave and Wind Energy Devices".</p> <p>The details are provided in Annexure – VIII.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Water Resources and Ocean Engineering for the modifications in the LTP structure and added the technical content to the course WO820.</p>	

(b) Introducing new elective course

Proposal	BOS Resolution	For Senate approval
<p>The DFC of the department of Water Resources and Ocean Engineering has proposed to introduce the following new elective course for UG students of the department of Civil Engineering.</p> <p>WO749: Application of Artificial Intelligence and Data Science in Civil Engineering: (2-1-0)3</p> <p>The details are provided in Annexure - VIII.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Water Resources and Ocean Engineering to introduce the new elective course for UG students of the department of Civil Engineering.</p>	

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(c) Introducing new elective course		
Proposal	BOS Resolution	
<p>The DFC of the department of Water Resources and Ocean Engineering has proposed to introduce the following new elective course for PG students of Water Resources and Ocean Engineering.</p> <p>WO872: Numerical Modelling in Surface and Subsurface Hydrology (2-0-2)3.</p> <p>The details are provided in Annexure - VIII.</p>	<p>The BOS resolved to recommend the proposal of the DFC of the Department of Water Resources and Ocean Engineering to introduce the new elective course for PG students.</p>	<p>For Senate approval</p>

ITEM No. 41-BOS-9: INCLUSION OF EXTERNAL ADDITIONAL GUIDE		
a) <i>Department of Mining Engineering</i>		
Proposal	BOS Resolution	
<p>The DRPC of Department of Mining Engineering has proposed that Dr. Shiva Kumar Angadi, Senior Principal Scientist and Associate Professor of AcSIR, Mineral Processing Department, CSIR-Institute of Minerals and Materials Technology, Bhubaneswar to be considered as an additional Research Guide for the Ph.D student Mr. Rakesh Behera.</p> <p>The details are provided in Annexure - IX.</p>	<p>The BOS resolved to consider Dr. Shiva Kumar Angadi, Senior Principal Scientist and Associate Professor of AcSIR, Mineral Processing Department, CSIR-Institute of Minerals and Materials Technology, Bhubaneswar as an additional Research Guide for the Ph.D student Mr. Rakesh Behera.</p>	<p>Reporting to Senate</p>

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ITEM No. 41-BOS-10: ANY OTHER MATTER

a) Resolution made by the Committee that was formed to look into 40th BOS agenda Proposal from the department of CSE.

Proposal	BOS Resolution
<p>The proposal was put before 40th BOS meeting by Department of Computer Science and Engineering:</p> <p>1(a) The curriculum details of private organization like Coursera, Google Cloud etc. to consider as MOOC courses for the award of credits.</p> <p>1(b) The B.Tech student needs less than 12 credits in the semester that completes the B.Tech degree credit requirement.</p> <p>1(c) CGPA calculation in case of credits beyond B.Tech degree.</p> <p>The Resolution of 40th BOS recommended and approved by 70th Senate was:</p> <p>To constitute a committee Chaired by Dean (Academic) with the members Dean (SW), Associate Dean (PG), Associate Dean (UG), HOD, Computer Science and Engineering, HOD, Information Technology, HOD, MACS, HOD, Mechanical Engineering and Chairman, CDC to look into the above matters.</p> <p>As per the Senate resolution, the Committee met on 5th Dec. 2024 and the following resolution were made by the Committee:</p>	<p>The particular matters were discussed in detail in the present BOS meeting.</p> <p>The details are attached in the Annexure-X.</p>

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<p>1. For online courses like Google cloud, Coursera etc. to be considered for credit requirement under MOOC course (max. 8 credits) the following procedure shall be adopted:</p> <p>a) Approval form for registration of MOOC courses as elective should be submitted to their respective DUGC. DUGC convenes and scrutinizes the course content and map appropriate credits for the course.</p> <p>b) Upon successful completion of the online course, the student undergoes a proctored examination conducted by their respective departments via nominated course instructors. Course instructors conduct, evaluate the answer sheets and give 'S/N' grades to individual courses.</p> <p>c) Faculty advisors/ Course instructors enter the grade on IRIS. DUGC forwards the consolidated IRIS grade sheet along with the forms and certificates.</p>	<p>The BOS resolved not to recommend the MOOC courses of private organisations like Coursera, Google Cloud etc. henceforth (from AY 2025-26) for credits. Only the MOOC courses like NPTEL, SWAYAM are allowed.</p> <p>However, as some students already did some MOOC courses from Coursera, Google Cloud their credits may be considered as one time measure.</p>	<p>Reporting to Senate</p>
<p>2. If a student goes for a six-month 'offline' internship during his/her 8th semester, the minimum credits (12 credits) to be registered in a semester can be waived off provided all the credits requirements are met before the internship commences. Industry internships are allowed through CDC-NITK. Academic internships are permitted in reputed institutions only. If only major Project remains during his/her 8th semester, undertaking from the student along with the consent from his/her major project guide must be submitted for approval from DUGC.</p>	<p>The BOS resolved to recommend the decision of the committee regarding the minimum credit requirement during offline internship.</p>	<p>For Senate approval</p>

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<p>3. In case a student earns more than the required credits for the completion of the degree, CGPA can be calculated based on the best grades secured in courses that make up the minimum credit requirement.</p>	<p>The BOS resolved to recommend the decision of the committee regarding CGPA calculation in case of credits beyond B.Tech degree.</p>	<p>For Senate approval</p>
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b) Self study course for M.Tech (Research) students

Proposal	BOS Resolution	
Some of the BOS members requested to consider one self-study course for M.Tech (Research) students.	The BOS resolved to recommend the proposal to consider one self-study course for M.Tech (R) students.	For Senate approval

c) Joint NITK-Kagoshima University Ph.D programme

Proposal	BOS Resolution	
The Dean (Academic) proposed joint Ph.D programme in collaboration with Kagoshima University, Japan.	The BOS resolved to recommend the proposal.	For Senate approval

Meeting ended with the vote of thanks to the Chair.

Sandhya.
Secretary-BOS, NITK

G. S. *G. S. Salish*
Chairman-BOS, NITK 8.4.25