



**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA  
SURATHKAL**

**MINUTES**

**OF**

**35<sup>th</sup> MEETING OF  
BOARD OF STUDIES**

**Date : 27.01.2021 (Wednesday)**  
**Time : 02.30 P.M.**  
**Venue : Via Online Mode (Source: Google Meet)**

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

**Minutes of the 35<sup>th</sup> combined Board of Studies (UG, PG & Research)  
Meeting held on Wednesday, January 27, 2021  
via Online Mode (Google Meet)**

**MEMBERS PRESENT**

1.	Dr. A. Nityananda Shetty	...	Chairman
2.	Prof. M. S. Bhat	...	Member
3.	Prof. Jagannath Nayak	...	Member
4.	Prof. Amba Shetty	...	Member
5.	Prof. K. Swaminathan	...	Member
6.	Dr. K. Rama Chandar	...	Member
7.	Dr. Alwyn Roshan Pais	...	Member
8.	Dr. Shanthi Thilagam	...	Member
9.	Prof. Laxminidhi T.	...	Member
10.	Prof. K.N. Shubhang	...	Member
11.	Dr. Biju R. Mohan	...	Member
12.	Dr. Prasanna B.D	...	Member
13.	Prof. Vijay H. Desai	...	Representative of HOD, Dept. of Mech
14.	Dr. Kumar G.N	...	Member
15.	Prof. S. Shrikantha	...	Member
16.	Prof. K. Narayan Prabhu	...	Member
17.	Prof. Arun M. Isloor	...	Member
18.	Prof. Shyam S. Kamath	...	Member
19.	Dr. Ajith K.M	...	Member
20.	Dr. S. Pavan Kumar	...	Member
21.	Dr. Prasanna B.D	...	Member
22.	Mr. Mallikarjun Angadi	...	Member
23.	Prof. Ashwin Chaturvedi	...	Member
24.	Prof. Vidya Shetty K.	...	Member
25.	Mr. K. Ravindranath	...	Member
26.	Mr. Harish M. Shetty	...	Secretary
27.	Ms. Sandhya	...	Member
28.	Dr. A.P. Shashikala	...	External Member
29.	Dr. Pradeep Kumar Ramacharla	...	External Member
30.	Dr. Jaya Kumar Seelam	...	External Member



# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

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**Minutes of 35<sup>th</sup> BOS meeting held on  
27-01-2021 (Wednesday)**

The Chairman (BOS) and Dean (Academic) chaired the meeting and welcomed all the members to the **35<sup>th</sup> BOS meeting**.

The minutes of **34<sup>th</sup> BOS meeting** was approved as there were no comments received from the members.

**ITEM No: 35-BOS-1:  
Change of suggested plan of study in the curriculum 2018: Proposal by the  
Department of Electrical and Electronics Engineering.**

The DUGC of the Department of Electrical and Electronics Engineering has proposed the following changes in the Suggested Plan of Study in the curriculum 2018.

1. To shift a core course EE308 (Power Electronics (3-1-0)4] from 3<sup>rd</sup> semester to 4<sup>th</sup> semester in the place of an Elective.
2. To swap a core course EE276 [Digital Electronic Circuits (3-1-3)6] in 3<sup>rd</sup> semester with a core course EE226 (Analog Electronic Circuits (3-1-3)6] in 4<sup>th</sup> semester.

**The BOS resolved to recommend the above change of suggested plan of study in the curriculum 2018.**

The details are attached as an **ANNEXURE-I, Page No. 1-3**

**For  
Senate  
approval**

**ITEM No: 35-BOS-2:  
Updating the syllabus and changing the L-T-P and credit of EE851 High-  
Voltage Testing and Measurements (3-0-0) 3, Proposal by the Department  
of Electrical and Electronics Engineering.**

The DPGC of the Department of Electrical and Electronics Engineering has proposed the following

The syllabus of the course EE851 High-Voltage Testing and Measurements with LTP (3-0-0) 3 could be updated by adding topics with relevant standards IS/IEEE keeping in view of the industry requirements. It would help the students in their placement. In order to account for the addition of new topics, the L-T-P/Credit is to be changed to (4-0-0) 4.

**The BOS resolved to recommend updating the syllabus and changing the L-T-P and Credits.**

The details are attached as an **ANNEXURE-II, Page No. 4**

**For  
Senate  
approval**

*Harish. M. Shetty*

*Abhishek*



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**ITEM No: 35-BOS-3:**

**Proposal to start a new M.Tech programme (online mode) - Proposal by the Department of Mining Engineering:**

The DPGC of the Department of Mining Engineering has proposed to start a new M.Tech programme in Rock Excavation Engineering both in online mode and in regular mode.

**The BOS has resolved to recommend starting the new M.Tech programme in online mode and also through regular mode, following the existing regulations.**

The details are attached as **ANNEXURE-III, Page No. 5 - 19**

**For  
Senate  
approval**

**ITEM No: 35-BOS-4:**

**Introduction of new Elective Courses For M.Tech Programs:**

**Department of Civil Engineering :**

The DUGC/DPGC/DRPC of the Department of Civil Engineering has proposed to introduce following new Elective (Ele) courses from the academic year 2021-22 onwards in the PG curriculum of the various M. Tech programmes offered by the department.

**(a) New elective courses to be introduced in M. Tech (Geo-Technical Engineering) are as follows:**

i) CV831	Critical State Soil Mechanics	(3-0-0)3
ii) CV 832	Geotechnical Earthquake Engineering	(3-0-0)3
iii) CV833	Water Geotechnics	(3-0-0)3
iv) CV834	Unsaturated Soil Mechanics	(3-0-0)3

**(b) New elective course to be introduced in M. Tech (Transportation Engineering) is as follows:**

i) CV854	Intersection Design and Analysis	(3-0-0)3
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**(c) New elective courses to be introduced in M. Tech (Structural Engineering) are as follows:**

i) CV800	Design of Cold-Formed Steel Structures	(3-0-0)3
ii) CV819	Non-linear Finite Element Analysis	(3-0-0)3
iii) CV820	Advanced Structural Dynamics	(3-0-0)3

**The BOS resolved to recommend the inclusion of above electives in the list of Electives of PG programmes.**

The details are attached as an **ANNEXURE-IV, Page No. 20 - 23**

**For  
Senate  
approval**

*Halish. M. Nelly*

*Asli*



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**ITEM No: 35-BOS-5:**

To remove the elective course CV 870: Remote Sensing & GIS Applications listed under M. Tech (Environmental Engineering) curriculum in the Department of Civil Engineering and to permit the student to opt for the similar elective course offered by the Department of Water Resources and Ocean Engineering under M. Tech (Remote Sensing and GIS), proposal from the Department of Civil Engineering :

The DPGC has proposed to remove the elective course CV 870: Remote Sensing & GIS Applications listed under M. Tech (Environmental Engineering) curriculum and to introduce the following new elective course.

- i) CV870 Advanced Water and Wastewater Treatment (3-0-0)3

The BOS resolved to recommend the removal of the elective, CV 870:Remote Sensing & GIS Applications in the list under M.Tech (Environmental Engineering) curriculum and to introduce a new elective course CV 870: Advanced Water and Wastewater Treatment (3-0-0)3.

The details are attached as an ANNEXURE-V, Page No.23 - 25

**For  
Senate  
approval**

**ITEM No: 35-BOS-6:**

**Inclusion of new Elective Course for UG - proposal of Department of Computer Science and Engineering:**

The DUGC of the Department of Computer Science and Engineering has proposed to introduce following new Elective Courses for UG (CSE) as follows

- i) CS478 Foundation of Cyber-Physical System (3-1-0) 4  
ii) CS479 Introduction to Blockchain and Cryptocurrency (3-0-0)3

The BOS resolved to recommend the inclusion of above electives in the list of Electives of UG programme.

The details are attached as an ANNEXURE-VI, Page No. 26 - 29

**For  
Senate  
approval**

*Hainu. M. Mally*

*Poshi*

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

**ITEM No: 35-BOS-7:**

**Inclusion of new Self-Study Course for Ph.D. Students - proposal of Department of Computer Science and Engineering:**

The DRPC of the Department of Computer Science and Engineering has proposed a Self-Study Course for Ph.D. Students in CSE as follows

- i) CS929 Applied Cyber-Physical Systems (4-0-0) 4

**The BOS resolved to recommend the above Self-Study Course for Ph.D. Students.**

The details are attached as an **ANNEXURE-VII, Page No. 30 - 32**

**For Senate approval**

**ITEM No: 35-BOS-8:**

**Inclusion of new Elective Course for PG - proposal of Department of Computer Science and Engineering:**

The DPGC of the Department of Computer Science and Engineering has proposed new Elective Courses for PG (CSE, CSE-IS) as follows

- i) CS 740 Blockchain Architecture Design (3-1-0)4  
ii) CS739 Cyber - Physical Systems (3-1-0)4

**The BOS resolved to recommend the inclusion of above electives in the list of Electives of PG (CSE, CSE-IS) programmes.**

The details are attached as an **ANNEXURE-VIII, Page No. 33 - 37**

**For Senate approval**

**ITEM No: 35-BOS-9:**

**Renaming of M.Tech (IT) Elective and inclusion of additional Elective Courses for B.Tech (IT) and M.Tech (IT) - Proposal of Department of Information Technology:**

The DUGC/DPGC of the Department of Information Technology has proposed the following

- i) Redesigning the existing IT809 Data Mining (3-0-0) 3 to IT809 Data Warehousing and Data Mining (3-0-2) 4.

**The BOS resolved to recommend the redesigning of IT809 Data Mining (3-0-0) 3 to IT809 Data Warehousing and Data Mining (3-0-2) 4.**

**For Senate approval**

*Hari M. M. Nity*

*Asheer*



NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

ii) Additional Elective courses for B. Tech. (IT) and M.Tech. (IT) Programs offered by IT Department.

**B.Tech (IT)**

1. IT466	Fundamentals of 5G	(3-0-2) 4
2. IT467	Robotics Process Automation	(3-0-2) 4
3. IT468	Quantum Computing	(3-0-2) 4

**M.Tech**

1. IT835	Advanced Data Analytics	(3-0-2) 4
2. IT836	Advanced Topics in 5G	(3-0-2) 4
3. IT837	Spatial Database and Applications	(3-0-2) 4
4. IT838	Quantum Cryptography	(3-0-2) 4

**The BOS resolved to recommend the inclusion of above electives in the list of electives of UG/PG programmes.**

The details are attached as an **ANNEXURE-IX, Page No. 38 - 41**

**ITEM No: 35-BOS-10:**

**Proposal from the Department of Mathematical and Computational Sciences:**

The DUGC/DPGC/DRPC of the Department of Mathematical and Computational Sciences has proposed the following:

- i) **Modification in the curriculum of M.Tech (CDS)** - Inclusion of a new core course, MA727, Advanced Data Science (3-0-0) 3 and modification of contents of MA721, MA722, MA725 and MA726. The modification in the credit requirements as follows: Program Core: 26, Electives: 9, MLC: 4 and MP: 12. Total: 51.

**The BOS resolved to recommend the inclusion of the above core course, MA 727 and the modification of curriculum and the course requirements of M.Tech (CDS) .**

- ii) Proposal to add an elective course to M.Tech (CDS) - MA870, Graphs in Machine Learning, (3-0-3) 3

**The BOS resolved to recommend the inclusion of above elective course to M.Tech (CDS).**

- iii) Proposal to modify the contents of the elective course MA851, Numerical Solutions of Partial Differential Equations, of M.Tech (CDS).

**The BOS resolved to recommend the modification in the contents of the elective course MA851.**

**For  
Senate  
approval**

*Haim. M. Shetty*

*Ashe*



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- iv) Modifications and changing the credit from 3 to 4 for the existing course MA900.
- v) Modifications and changing the credit from 3 to 4 for the existing course MA934.

**The BOS resolved to recommend the modifications and changes in the credits for courses MA900 and MA 934.**

- vi) Proposal to add a new Course (900 Level): MA946, Discrete Dynamical Systems (4-0-0)4.

**The BOS resolved to recommend the inclusion of a new course MA946.**

- vii) Proposal to request the revision of credits MA110 and MA111 from 3 to 4.

**The BOS resolved not to recommend the revision of credits for MA110 and MA111.**

The details are attached as **ANNEXURE-X, Page No. 42 - 46**

**ITEM No: 35-BOS-11:**

**Inclusion of Electives - Proposal from Department of Metallurgical and Materials Engineering:**

The Department of Metallurgical and Materials Engineering has proposed new Elective Courses for PG students of Process Metallurgy and Materials Engineering as follows

- i) Advanced Steels (3-0-0) 3
- ii) Texture in Metals (3-0-0) 3

**The BOS resolved to recommend the inclusion of the above electives in the list of electives for M.Tech programmes in Process Metallurgy and Materials Engineering.**

The details are attached as an **ANNEXURE-XI, Page No. 47 - 49**

**For  
Senate  
approval**

**ITEM No: 35-BOS-12:**

**Recognition as Research Guide (Internal) for Ph.D. :**

The following Faculty has been recognized as Ph.D. guides after 34<sup>th</sup> BOS meeting based on the recommendation of the respective DRPC:

*Harish M. Sule*

*Ashe*



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E& C Engg.	Dr. Mandeep Singh	Assistant Professor	IIT Roorkee	<b>To Senate for information</b>
Mechanical Engg.	Dr. Khyati Verma	Assistant Professor	IIT Delhi	
Mechanical Engg.	Dr. A S Balan	Assistant Professor	IIT Madras	
Mechanical Engg.	Dr. P S Suvin	Assistant Professor	IISc. Bangalore	
E& C Engg.	Dr. Nikhil K S	Assistant Professor	IIT Madras	
E& C Engg.	Dr. Sushil Kumar Pandey	Assistant Professor	IIT Indore	
Civil Engg.	Dr. Sridhar G	Assistant Professor	IIT Madras	
Metallurgical and Materials Engg.	Dr. Selvakumar Murugesan	Assistant Professor	IIT Kharagpur	
Computer Science & Engg.	Dr. Ajay Pratap	Assistant Professor	IIT Patna	
Civil Engg.	Dr. Pavan G S	Assistant Professor	IISc. Bangalore	
Computer Science & Engg.	Dr. Biswajit Bhowmik	Assistant Professor	IIT Guwahati	
Computer Science & Engg.	Dr. Sourav Kanti Addya	Assistant Professor	NIT Rourkela	
E & E Engg.	Dr. B Dastagiri Reddy	Assistant Professor	NIT Trichy	
E & E Engg.	Dr. Shashidhara Mecha Kotian	Assistant Professor	NITK Surathkal	
MACS	Dr. Falguni Roy	Assistant Professor	IIT Kharagpur	
MACS	Dr. R Jothi Ramalingam	Assistant Professor	Queensland University of Technology Australia	
School of Mgt.	Dr. Rofin T M	Assistant Professor	IIT Kharagpur	
Chemistry	Dr. Lakshmi Vellanki	Assistant Professor	IIT Bombay	
Chemistry	Dr. Vijayendra S Shetti	Assistant Professor	IIT Bombay	
E & E Engg.	Dr. M D Waseem Ahmad	Assistant Professor	IIT Kanpur	
E & E Engg.	Dr. Prajof P	Assistant Professor	IIT Bombay	
Water Resources & Ocean Engg.	Dr. Shwetha H R	Assistant Professor	IISc. Bangalore	
Mechanical Engg.	Dr. Ranjeet Kumar Sahu	Assistant Professor	IIT Madras	
Mechanical Engg.	Dr. Arun Kumar Shettigar	Assistant Professor	NITK Surathkal	
Mechanical Engg.	Dr. Pramod K	Assistant Professor	IIT Bombay	
Mechanical Engg.	Dr. Mruthyunjaya Swamy K B	Assistant Professor	IIT Kharagpur	

**The BOS resolved to ratify the list of faculty who were recognized as Research Guide after 34<sup>th</sup> BOS meeting based on the respective DRPC recommendations.**

**ITEM No: 35-BOS-13:**

**Inclusion of External Additional Guides:**

*Havm. M. Shetty*

*Prabha*



NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

**A) Department of Chemistry**

The DRPC of the Chemistry has proposed that Dr. P Thomus, Additional Director, CPRI Bangalore be considered for inclusion as an Additional Research Guide for Mr. R R Sivaprakash (197CY501) in the Department of Mechanical Engineering.

**For  
Senate  
approval**

**The BOS resolved to consider Dr. P Thomus, Additional Director, CPRI Bangalore for inclusion as an Additional Research Guide for Mr. R R Sivaprakash (197CY501) in the Department of Chemistry.**

**The details are enclosed as Annexure - XII, Page No. 50 - 58**

**B) Department of Mechanical Engineering**

i) The DRPC of the Mechanical Engineering has proposed that Dr. Suhas B G, Assistant Professor, BMSCE, Bangalore be considered for inclusion as an Additional Research Guide for Mr. Madan K in the department of Mechanical Engineering.

**The BOS resolved not to consider Dr. Suhas B G, Assistant Professor, BMSCE, Bangalore for inclusion as an Additional Research Guide for Mr. Madan K in the Department of Mechanical Engineering.**

**The details are enclosed as Annexure - XIII, Page No. 59 - 66**

ii) The DRPC of the Mechanical Engineering has proposed that Dr. Avdhoot Walunj, Assistant Professor BMSCE Bangalore be considered for inclusion as an Additional Research Guide for Mr. K Ganesh Vijay Rao in the department of Mechanical Engineering.

**The BOS resolved not to consider Dr. Avdhoot Walunj, Assistant Professor BMSCE Bangalore for inclusion as an Additional Research Guide for Mr. K Ganesh Vijay Rao in the Department of Mechanical Engineering.**

**The details are enclosed as Annexure - XIV, Page No. 67 - 78**

iii) The DRPC of the Mechanical Engineering has proposed that Dr. Madhusudan Padmanabhan, Scientist-G, Aeronautical Development Agency (Ministry of Defence, Govt of India) Bangalore be considered for inclusion as an Additional Research Guide for Mr. Ashok Kumar S (197ME502) in the department of Mechanical Engineering. The present Additional Guide Dr. T Ram Prabhu, Scientist, DRDO Bangalore has consented to withdraw his guideship.

**The BOS resolved to consider Dr. Madhusudan Padmanabhan, Scientist-G, Aeronautical Development Agency (Ministry of Defence, Govt of India) Bangalore for inclusion as an Additional Research Guide for Mr. Ashok Kumar S (197ME502) in the department of Mechanical Engineering.**

*Harish. M. Reddy*

*Reddy*



NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

The details are enclosed as Annexure - XV, Page No. 79 - 84

**C) Department of Metallurgical and Materials Engineering**

The DRPC of the Metallurgical and Materials Engineering has proposed that Dr. Mohammad Waseem Akhtar, Assistant Professor, Jamia Millia Islamia, Delhi be considered for inclusion as an Additional Research Guide for Mr. Mohammad Muhiuddin (207148) in the department of Metallurgical and Materials Engineering.

**The BOS resolved to consider Dr. Mohammad Waseem Akhtar, Assistant Professor, Jamia Millia Islamia, Delhi for inclusion as an Additional Research Guide for Mr. Mohammad Muhiuddin (207148) in the Department of Metallurgical and Materials Engineering.**

The details are enclosed as Annexure - XVI, Page No. 85 - 93

**D) Department of Water Resources and Ocean Engineering**

- i) The DRPC of Water Resource and Ocean Engineering has proposed that Dr. Fekadu Fufa Feyessa, Head, Oromiya Urban and Housing Bureau, Addis Ababa, Ethiopia be considered for inclusion as an Additional Research Guide for Mr. Fiseha Befikadu deneke (197AM003) in the department of Water Resource and Ocean Engineering.

**The BOS resolved to consider Dr. Fekadu Fufa Feyessa, Head, Oromiya Urban and Housing Bureau, Addis Ababa, Ethiopia for inclusion as an Additional Research Guide for Mr. Fiseha Befikadu deneke (197AM003) in the Department of Water Resource and Ocean Engineering.**

The details are enclosed as Annexure - XVII, Page No. 94 - 101

- ii) The DRPC of Water Resource and Ocean Engineering has proposed that Dr. Jaya Kumar Seelam, Principal Scientist, NIO Goa be considered for inclusion as an Additional Research Guide for Ms. Swaroopa Gourish Sai Alias Roopa Mangesh Sawant (187AM505) in the department of Water Resource and Ocean Engineering.

**The BOS resolved to consider Dr. Jaya Kumar Seelam, Principal Scientist, NIO Goa for inclusion as an Additional Research Guide for Ms. Swaroopa Gourish Sai Alias Roopa Mangesh Sawant (187AM505) in the Department of Water Resource and Ocean Engineering.**

The details are enclosed as Annexure - XVIII, Page No. 102 - 118

**ITEM No: 35-BOS-14:**

**Inclusion of new Elective Course for UG & PG - proposal of Department of Chemical Engineering:**

*Hanish. H. Muty*

*Doole*



NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

The DUGC/DPGC/DRPC of the Department of Chemical Engineering has proposed to introduce following new Elective Courses for UG and PG courses as follows

**For  
Senate  
approval**

**For UG Program**

- i) Process Sustainability 2(2-0-0)
- ii) Chemical Process Safety 2(2-0-0)

**For PG Program**

- i) Molecular Simulations 3(3-0-0)

**The BOS resolved to recommend the inclusion of the above electives in the list of electives of UG & PG programmes.**

**The details are enclosed as Annexure - XIX Page No. 119 - 122**

**ITEM No: 35-BOS-15: Changing the course names and inclusion of electives - proposal of Department of Electronics & communication**

**i) Change in course Name of UG (Department of Electronics & Communication Engg.)** **For Senate approval**

Changing the course name of the course EC459 Optimization (3-1-0)<sup>4</sup> -to- Optimization and applications.

**The BOS resolved to recommend the changing the course name of the course EC459 Optimization (3-1-0)<sup>4</sup> -to- Optimization and applications.**

**ii) Introducing a new UG elective course**

EC480 Remote Sensing: Principles, Techniques and Application (3-1-0)<sup>4</sup>

**The BOS resolved to recommend the inclusion of the above elective course in the list of electives for the UG programme.**

**iii) Change in credit requirement for Honors in E&C Engg and inclusion of list of courses for Honors degree in the B.Tech course structure.**

**The BOS resolved to recommend the change in credit requirement for Honors in E&C Engg. from 20 to 16 credits from the academic year 2021-22. It is also resolved to recommend the inclusion of the proposed list of courses for Honors degree in the B.Tech course structure.**

**iv) Change in course Name of PG**

Changing the course name of the PG course, EC836 Radar Signal Processing (4-0-0)<sup>4</sup> - to "Radar Signal Processing and Applications"

*Harish M. Shetty*

*Ashe*

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

The BOS resolved to recommend the change of the course name of the PG course, EC836 Radar Signal Processing (4-0-0)4 - to "Radar Signal Processing and Applications".

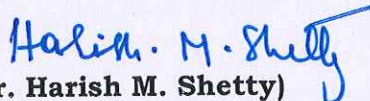
v) Introducing PG elective course for M.Tech in Signal Processing and Machine learning


EC878 Remote Sensing: Techniques, Data Analysis and Applications (4-0-0)

The BOS resolved to recommend the inclusion of the above elective course for M.Tech in Signal Processing and Machine learning

The details are enclosed as Annexure - XX, Page no.123 -125.

The Secretary (BOS) proposed the vote of thanks to the chair and to the members.

  
(Mr. Harish M. Shetty)  
Secretary - BOS, NITK

  
(Prof. A. Nityananda Shetty)  
Chairman - BOS, NITK