



**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA  
SURATHKAL**

***MINUTES***

***OF***

***36<sup>th</sup> SENATE MEETING***

**Date : 6.5.2014**

**Time : 4.30 p.m**

**Venue : ATB Seminar Hall,  
N.I.T.K., Surathkal  
MANGALORE  
PIN - 575 025.**

**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL**  
**MANGALORE - 575 025**

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**Proceedings of the 36th meeting of the Senate of N.I.T.K. Surathkal held on 6.5.2014 at 4.30 p.m in the Seminar Hall of the Additional Teaching Block of N.I.T.K. Surathkal.**

**MEMBERS PRESENT:**

Swapan Bhattacharya	.....	Chairman
V.Shubha	.....	Member
A. Kandaswamy	.....	Member
M.C. Narasimhan	.....	Member
S.Sumam David	.....	Member
K. Chandrasekaran	.....	Member
M.B. Saidutta	.....	Member
Udayakumar R.Y.	.....	Member
Subba Rao	.....	Member
N. Lakshman	.....	Member
M.K. Nagaraj	.....	Member
A. Vittal Hegde	.....	Member
A.Mahesha	.....	Member
Dwarakish G.S.	.....	Member
Kiran G.Shirlal	.....	Member
Katta Venkataramana	.....	Member
A.U. Ravi Shankar	.....	Member
R. Shivashankar	.....	Member
K.N. Lokesh	.....	Member
D. Venkata Reddy	.....	Member
S. Shrihari	.....	Member
Subhas C.Yaragal	.....	Member
K.S. Babu Narayan	.....	Member
Vidya Shetty	.....	Member
G. Srinikethan	.....	Member
A.Chitharanjan Hegde	.....	Member
A. Nityananda Shetty	.....	Member
A.V. Adhikari	.....	Member
D.Krishna Bhat	.....	Member
B.Ramachandra Bhat	.....	Member
Annappa	.....	Member
M.S. Bhat	.....	Member
John D'Souza	.....	Member
Jora M Gonda	.....	Member
K. Panduranga Vittal	.....	Member
Shashikantha K	.....	Member
K.B.Kiran	.....	Member
Ananthanarayana V.S.	.....	Member
G. Ram Mohana Reddy	.....	Member
Murulidhar N.N.	.....	Member
Keshava Prasad Halemane	.....	Member
Santosh George	.....	Member
Prasad Krishna	.....	Member
G.C. Mohan Kumar	.....	Member

P. Mohanan	.....	Member
T.P. Ashok Babu	.....	Member
H. Suresh Hebbar	.....	Member
S.M. Kulkarni	.....	Member
Gangadharan K.V.	.....	Member
Ravikiran Kadoli	.....	Member
Vijay Desai	.....	Member
Narendranath S	.....	Member
Jagannath Nayak	.....	Member
K. N. Prabhu	.....	Member
Arun M	.....	Member
V. Rama Sastry	.....	Member
Ch.S.N. Murthy	.....	Member
N.K.Udayashankar	.....	Member
Kasturi V. Bangera	.....	Member
G. K. Shiva Kumar	.....	Member
H.D. Shashikala	.....	Member
Anusuya Chakari	.....	Member
Akshay B Pattabi	.....	Spl. Invitee
K.Ravindranath	.....	Secretary

**Preamble:**

Chairman welcomed all the members to the 36th Senate meeting. After a brief discussion, with the permission of the Chair, the Secretary, Senate began the deliberations on Agenda items.

**Item No. 36.1: CONFIRMATION OF MINUTES OF THE 35<sup>th</sup> MEETING OF THE SENATE HELD ON OCTOBER 28<sup>TH</sup>, 2013.**

The Senate resolved to confirm the minutes of the 35<sup>th</sup> Senate Meeting.

**Item No. 36.2: REVIEW OF ACTION TAKEN ON THE MINUTES OF 35<sup>th</sup> SENATE MEETING HELD ON OCTOBER 28<sup>TH</sup>, 2013.**

The actions taken on the minutes of the 35<sup>th</sup> Senate meeting were noted.

**Item No. 36.3: ITEMS PLACED BEFORE THE 36<sup>th</sup> SENATE MEETING HELD ON MAY 6<sup>th</sup>, 2014.**

**Discussion and Decision Items:**

**Item No.36.3.1: Agenda items discussed in the 26<sup>th</sup> BOS meeting held on 30<sup>th</sup> April 2014.**

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**ITEM No: 26-BOS - 1:**

**Introduction of New Elective Course for B Tech 2012 Curriculum:-**

**Resolution of the BOS**

**a) The Department of Information Technology:**

The BOS resolved to approve IT 365 Natural Language Processing (3-0-2) 4 as new Elective Course for B Tech (Information Technology) 2012 Curriculum.

**b) The Department of Mechanical Engineering:**

The BOS resolved to approve the inclusion of:

- 1) ME446 - Theory of Gas Turbine and Jet propulsion (2-1-0) 3
  - 2) ME447 - Multi Body Dynamics and Applications (2-1-0) 3
- as new Elective Course for B Tech (Mechanical Engineering) 2012 Curriculum.

**c) The Department of Computer Science and Engineering:**

The BOS resolved to approve the inclusion of:

- 1) CO331 - Bioinformatics (2-1-0) 3
  - 2) CO369 - Quantitative Computer Architecture (2-1-0) 3
- as new Elective Course for B.Tech (Computer Science and Engineering) 2012Curriculum.

**d) The Department of Civil Engineering:**

The BOS resolved to approve the inclusion of:

- 1) CV373 - Probability Methods in Civil Engineering (3-0-0) 3
  - 2) CV426 - Solid Waste Management (3-0-0) 3
  - 3) CV477 - Seismoresistant Concrete Structures (3-0-0) 3
- as new Elective Course for B Tech (Civil Engineering) 2012 Curriculum and inclusion of

CV381 - Mini Project II (0-0-3) 2

in MP category

**e) The Department of Electrical & Electronics Engineering:**

The BOS resolved to approve the inclusion of:

- 1) EE243 - Mathematics for Electrical Engineers (3-1-0)4
  - 2) EE443 - Mathematical Morphology & Applications to Signal Processing (3-1-0)4
  - 3) EE343 - Statistical Foundation for Electrical Engineers (3-1-0)4
- as new Elective Course for B Tech 2012 (Electrical & Electronics Engineering) Curriculum.

**f) The Department of Chemical Engineering:**

The BOS resolved to approve the inclusion of :

- |  |          |
|--|----------|
| 1) CH365 - Introduction of Molecular Simulations                       | (2-0-2)3 |
| 2) CH366 - Electrochemical Engineering                                 | (3-0-0)3 |
| 3) CH367 - Energy Conservation and Management in<br>Process Industries | (3-0-0)3 |

as new Elective Course for B Tech (Chemical Engineering) 2012 Curriculum.

**Resolution of the Senate**

The Senate resolved to approve the inclusion of New Elective courses of a) Information Technology b) Mechanical Engineering c) Computer Science and Engineering d) Civil Engineering e) Electrical & Electronics Engineering f) Chemical Engineering in B Tech 2012 Curriculum.

**ITEM No: 26-BOS - 2:**

**Incorporating changes in curriculum structure for B.Tech (Comp. Engg.) - 2012 Curriculum:**

**Resolution of the BOS**

The proposal of DUGC of Department of Computer Science & Engineering was discussed. The B.Tech 2012 curriculum structure provides the flexibility to facilitate one semester project work in industry/external organizations. Hence resolved that there was no need to change the curriculum structure.

**Resolution of the Senate**

The Senate noted the BOS resolution

**ITEM No: 26-BOS - 3:**

**Introduction of New Courses for PG programmes**

**Resolution of the BOS**

**a) The Department of Information Technology:**

The BOS recommended the inclusion of :

- |  |           |
|--|-----------|
| IT 825 Advanced Computer Networks            | (3-0-0) 3 |
| IT 826 Topics in Natural Language Processing | (3-0-2) 4 |

as new Elective Courses for MTech (Information Technology) Curriculum.

**b) The Department of Mechanical Engineering has proposed to include the four new elective courses:**

The BOS resolved to approve the inclusion of :

- |   |           |
|---|-----------|
| 1) ME816 - Sustainable Energy Technologies                            | (3-0-0) 3 |
| 2) ME817 - Waste to Energy Processes and Technologies                 | (3-0-0) 3 |
| 3) ME818 - Artificial Intelligence and its Applications               | (3-0-0) 3 |
| 4) ME819 - Multiphase Flows   | (3-0-0) 3 |
| 5) ME827 - Experiments with Sensors, Actuator and<br>Data Acquisition | (2-0-2)3  |

as new Elective Courses for MTech programs of Department of Mechanical Engineering Curriculum.

**c) The Department of Computer Science and Engineering proposed to include the two new electives:**

The BOS resolved to approve the inclusion of :

- |                                     |           |
|-------------------------------------|-----------|
| 1) CS866 - Interconnection Networks | (3-0-0) 3 |
|-------------------------------------|-----------|
- as new Elective Course for M.Tech (Computer Science and Engineering) Curriculum.

**d) The Department of Civil Engineering has proposed to include the four new electives:**

The BOS resolved to approve the inclusion of :

- |   |           |
|---|-----------|
| 1) EN818 - Environmental Hydraulics                             | (3-0-0) 3 |
| 2) EN819 - Modeling Waste Water Treatment Process<br>and Plants | (3-0-0) 3 |
| 3) CM813 - Sustainability in Built Environment                  | (3-0-0) 3 |
| 4) TS816 - Traffic Simulation and Modeling                      | (3-0-0) 3 |
- as new Elective Courses for MTech Environmental Engg, Construction Technology and Management and Transportation Engg. programs of Dept. of Civil Engineering.

**e) The Department of Chemical Engineering has proposed to include the one new electives:**

The BOS resolved to approve the inclusion of :

- |  |           |
|--|-----------|
| CH 815 - Cavitations and Its Applications in<br>Chemical Engineering | (2-1-0) 3 |
|--|-----------|

as new Elective Course for M.Tech (Chemical Engineering) Curriculum.

**Resolution of the Senate**

The Senate resolved to approve the inclusion of New Elective courses for MTech programme a) Information Technology b) Mechanical Engineering c) Computer Science and Engineering d) Civil Engineering e) Chemical Engineering.

**ITEM No: 26-BOS - 4:**

**Modification of existing courses -**

**Resolution of the BOS**

**a) The Department of Mechanical Engineering:**

The BOS resolved to approve the modification of existing course:

ME803 – Wind Energy Conversion (3-0-0) 3

**b) The Department of Civil Engineering – MTech (Geotechnical Engineering) modification of Course structure and contents**

The BOS resolved to approve the modification of Course structure and Contents of M.Tech (Geotechnical Engineering).

*To be effective from Academic Session 2014-15*

**c) The Department of Electrical & Electronics Engineering:**

The BOS resolved to defer the proposal submitted by DPGC of the Department of Electrical & Electronics Engineering. It may be revisited at the during restructuring of M.Tech programs.

**Resolution of the Senate**

The Senate resolved to approve the following recommendations of BOS :

- 1) Modification of the course ME-803 - Wind Energy Conversion
- 2) Modification of the Course structure and Contents of MTech - Geotechnical Engineering
- 3) Senate noted the BOS resolution.

**ITEM No: 26-BOS -5:**

**Inclusion of Additional Guide for M.Tech (by research) student-**

**Resolution of the BOS**

The BOS has asked DPGC to give additional information on the research work of the student and the proposal was deferred.

**Resolution of the Senate**

The Senate noted the BOS resolution.

**ITEM No: 26-BOS - 6:**

**Introduction of new 900 level courses for the PhD students-**

**Resolution of the BOS**

**a) Department of Information Technology:**

The BOS resolved to approve the inclusion of new 900 level courses :

IT 913 Modern Cryptography	4
IT 914 Computer Network Security	4
IT 915 Digital Forensic	4
IT 916 Special Topics in Computer Networks	4
IT 917 Vehicular Adhoc Networks	4
IT 918 Special Topics in Wireless Sensor Networks	4
IT 919 Performance Analysis of Local Area Networks and Wide Area Networks	4
IT920 Modeling and Analysis of Networks Protocols	4
IT 921 Packet Forwarding Technologies	4
IT 922 Computer Network System Design	4

**b) The Department of Electronics and Communication Engineering:**

The BOS resolved to approve the inclusion of new 900 level courses :

EC906 – Selected Topics in Signal Processing	4
EC907- Applications of Signal Processing	4
EC908 – Selected Topics in Computer Communication Networks	4
EC909 – Advanced Topics in Radar Signal Processing	4
EC910 – Selected Topics in Analog and Mixed Signal Integrated Circuits	4
EC911 – Mathematical Methods for Signal Processing and Communication Engineering	4

**Resolution of the Senate**

The Senate resolved to approve the inclusion of new 900 level Courses in the Department of Information Technology and Electronics and Communication Engineering.



**ITEM No: 26-BOS - 7:**

**Eligibility to admission to PhD programme - Change in regulations - Dept. of Mechanical Engineering.**

**Resolution of the BOS**

The BOS resolved to approve the changes in eligibility to admission to Ph.D Programme proposed by the Department of Mechanical Engineering as follows:

<b>Existing</b>	<b>Proposed</b>
Admission to a Ph.D. Programme shall be open to candidates who passed the prescribed qualifying examination with a Cumulative Grade Point Average (CGPA) of at least 6.5 in the 0-10 scale grading system, or not less than 60% marks in the aggregate (taking into account the marks scored in all the subjects of all the public/ university examinations conducted during the entire prescribed period for the degree programme). However, this prescribed minimum shall be a CGPA of 6.0 or 55% marks in the aggregate for SC/ST candidates.	Admission to a Ph.D. Programme shall be open to candidates who passed the undergraduate and postgraduate degree in relevant field with a Cumulative Grade Point Average (CGPA) of at least 6.5 in the 0-10 scale grading system, or not less than 60% marks in the aggregate (taking into account the marks scored in all the subjects of all the public/ university examinations conducted during the entire prescribed period for the degree programme). However, this prescribed minimum shall be a CGPA of 6.0 or 55% marks in the aggregate for SC/ST candidates.

**Resolution of the Senate**

The Senate resolved to approve the changes in eligibility requirements for admissions to PhD programmes to be effective from July 2014 admissions.

**ITEM No: 26-BOS - 8:**

**Increase in number of PhD Scholars / Guide - Department of Chemistry**

**Resolution of the BOS**

The present ratio of Research scholars per faculty is only around 2.2. The BOS resolved to defer the proposal.

**Resolution of the Senate**

The Senate noted the BOS resolution.

**ITEM No: 26-BOS - 9:**

**Recognition of Chartered Accountancy qualification for registration to Ph.D. Programme in Department of Humanities, Social Sciences and Management.**

**Resolution of the BOS**

The BOS resolved to approve to recognize Chartered Accountancy along with graduation degree as equivalent to postgraduate degree in Commerce for admission to Ph.D. programme in Dept. of HSSM.

**Resolution of the Senate**

The Senate resolved to approve the Chartered Accountancy along with Graduation Degree as equivalent to Postgraduate Degree in Commerce for admission in PhD programme in Dept. of HSSM.

**ITEM No: 26-BOS - 10:**

**Constitution of RPAC panel for Department of Information Technology**

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**Resolution of the BOS**

The BOS resolved to approve the following modification for constitution of RPAC panel for the Research Scholars of Department of Information Technology as the no of members in the DRPC of Dept of IT is only 4. 3 faculty from Dept of IT/CSE/EE/EC instead of 3 faculty from Department.

**Resolution of the Senate**

The Senate resolved to approve the recommendation of BOS.

**ITEM No: 26-BOS - 11:**

**Admission of top 10% of B.Tech students of NITK to Direct PhD programme at IIT Madras-**

**Resolution of the BOS**

The BOS resolved to recommend the proposal of IIT Madras to admit top 10% of 3rd Year B.Tech students of NITK to direct PhD programme at IITM.

**Resolution of the Senate**

The Senate resolved to approve the proposal of IIT Madras to admit top 10% of 3rd year B Tech students of NITK to direct PhD program at IIT Madras in principle. Changes required in academic regulations to facilitate it has to be discussed in BOS.

**ITEM No: 26-BOS - 12:**

**Sponsored Ph.D. (External Registration) for contract faculty of other NITs -**

**Resolution of the BOS**

The BOS discussed the proposal from NIT Uttarakhand regarding External Registration of Contract faculty Sponsored from NIT Uttarakhand. The contract faculty sponsored from other NITs may apply during the normal PhD admissions under the category External Registration (Sponsored from educational institutions). For such applicants the requirement of two years of service in Sponsoring organization after qualifying degree may be waived.

**Resolution of the Senate**

The Senate resolved to approve to waiver the requirements of two years of services in sponsoring organization after qualifying degree for contract faculty sponsored from other NITs to be effective from July 2014 admission.

**ITEM No: 26-BOS - 13:**

**Inclusion of Additional guides for PhD Scholars**

**Resolution of the BOS**

- a) The BOS resolved not to approve additional guide for Mr Giridhara Babu Y (Reg. No ME12P07) as he has already completed his research proposal seminar.
- b) The BOS has asked DRGC to give additional information on the research profile and publications of the proposed Additional Guide for Mr. J. Felix [Reg. No. ME13P02] and the proposal was deferred.
- c) The BOS resolved to approve Dr. Srinivasa Pai P. Professor, NMAMIT NITTE as an Additional Guide for Mrs Rashmi [Reg. No. ME13P04] in the Department of Mechanical Engineering.

**Resolution of the Senate**

The Senate noted resolution of BOS

**ITEM No: 26-BOS - 14:**

**CGPA to Percentage Conversion Formula - Department of Civil Engineering**

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**Resolution of the BOS**

The BOS resolved to recommend modification of ***NITK Regulations General (G.5.13)*** as follows:

<b>Existing</b>	<b>Proposed</b>
There is no equivalence between the CGPA scale and percentage. However, $CGPA \geq 6.5$ can be considered as equivalent to first class and $5.5 \leq CGPA < 6.5$ can be considered as equivalent to second class.	There is no equivalence between the CGPA scale and percentage. However, $CGPA \geq 6.5$ can be considered as equivalent to first class and $5.5 \leq CGPA < 6.5$ can be considered as equivalent to second class. Notionally, $(CGPA - 0.5)$ may be multiplied by a factor of 10 to obtain the numerical percentage.

### **Resolution of the Senate**

The Senate resolved to approve the recommendation of BOS

**Item No.36.3.2: Admission of students made under UG, PG and PhD programme for the academic year 2013-14.**

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The Senate resolved to approve the admission statistics of students made under Undergraduate, Postgraduate and PhD programmes for the academic year 2013-14.

**Item No.36.3.3: To consider implementation of the Trainee Teachers Scheme in NITs from the year 2013-14.**

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The Senate resolved to obtain information from IITs in the Admission process and operational details of the Trainee Teachers Scheme.

**Item No.36.3.4: Earmarking two MTech sponsored seats for Indian Navy one each in Department of E & C and Department of Mechanical Engineering.**

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The Senate resolved to approve to earmark two M.Tech sponsored seats for Indian Navy one each in Department of E&C and Dept. of Mechanical Engineering from the academic year 2014-15.

**Item No.36.3.5: Provision to do Internal Sliding before last round of M.Tech Admissions.**

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The Senate resolved to approve internal sliding after Round 4 of CCMT-2014 admission before Spot Round. The Chairman CCMT 2014 will be requested to provide the list of students after implementing Internal Sliding.

**Item No.36.3.6: Request to condone the delay in Thesis submission.**

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The Senate resolved to approve the condone in delay of submission of Thesis of the PhD Research Scholars Sreekantha Jois H S (CY08F03) and Shree Laxmi Prasanth (CV07F01).

**Item No.36.3.7: Request to condone the delay in submission of Research Proposal.**

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The Senate resolved to approve the condone in delay of submission of Research Proposal of the PhD Research Scholars Dinesh Naik (IT11P01) and Basavaraj S Shalavadi (EE11F01).

**Item No.36.3.8: Request to condone the delay in submission of M.Tech (R) Research Proposal.**

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The Senate resolved to approve the condone in delay of submission of M.Tech (R) Research Proposal of student D Sai Parameshwari (CE12F01).

**Item No.36.3.9: Delay in submission of PhD synopsis and thesis**

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The Senate resolved to approve the condone in delay of submission of PhD synopsis and Thesis of student Pruthviraj (AM05P02).

**Item No.36.3.10: Sitting fee for Indian Examiner for conducting PhD viva voce exam**

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The Senate resolved to approve Rs 2000/- as Sitting Fee for Indian Examiner for conducting PhD Viva-Voce Exam.

**Item No. 36.3.11: Increase in Institute Scholarship for PhD programme.**

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The Senate noted the resolution of 38th BOG Item No. 38.4.9 dated March 2, 2014, to increase the Doctoral fellowships from 100 to 150 from the academic year 2014-15 and approved the proposed Seat Matrix.

Details of Intake are as follows:

OC	OC-PH	OBC	OBC-PH	SC	SC-PH	ST	ST-PH	Total
74	2	39	1	21	1	11	1	150

**Ratification Items**

**Item No. 36.3.12: Seat Matrix for DASA 2014-15.**

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The Senate resolved to ratify the Seat Matrix for DASA Undergraduate admission 2014-15.

**Item No.36.3.13: Equivalent Course for students joined prior to 2012.**

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The Senate resolved to ratify the additional equivalent courses in curriculum 2013 of Department of IT, E&C and Computer Science & Engineering for BTech students who have joined prior to July 2012.

**Item No.36.3.14: Restructuring & renaming of M.Tech (SACA) programme.**

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The Senate noted the resolution of 38th BOG dated March 2, 2014 to approve the recommendation of BOS/Senate Chairman for restructuring and renaming of present MTech - System Analysis and Computer Applications (SACA) as MTech-Computational Mathematics.

**Meeting ended with vote of thanks to the Chair.**

**(K.Ravindranath)**  
Secretary-Senate, NITK

**(Swapan Bhattacharya)**  
Chairman-Senate, NITK