



**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA  
SURATHKAL**

***MINUTES***

***OF***

***42<sup>nd</sup> SENATE MEETING***

**Date : 14.06.2017 (Wednesday)**

**Time : 10.30 a.m. onwards**

**Venue : Senate Hall  
'C' Block  
N.I.T.K., Surathkal  
MANGALURU  
PIN - 575 025.**

**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL  
MANGALURU – 575 025**

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**Proceedings of the 42<sup>nd</sup> meeting of the Senate of N.I.T.K. Surathkal held on  
14.06.2017 at 10.30 a.m. in the Senate Hall 'C' Block of N.I.T.K. Surathkal.**

**MEMBERS PRESENT:**

K. N. Lokesh	.....	Chairman
N. C. Shivaprakash	.....	External Member
Katta Venkataramana	.....	Member
T.P. Ashok Babu	.....	Member
A.U. Ravi Shankar	.....	Member
Prasad Krishna	.....	Member
S. M. Hegde	.....	Member
A. Mahesha	.....	Member
Lakshman Nandagiri	.....	Member
Nagaraj M. K.	.....	Member
Subba Rao	.....	Member
Raj Mohan B.	.....	Member
Denthaje Krishna Bhat	.....	Member
A. Chitharanjan Hegde	.....	Member
A. Nityananda Shetty	.....	Member
A.Vasudeva Adhikari	.....	Member
Badekai Ramachandra Bhat	.....	Member
Varghese George	.....	Member
K. S. Babu Narayan	.....	Member
M. C. Narasimhan	.....	Member
S. Shrihari	.....	Member
Sitaram Nayak	.....	Member
Subhash C. Yaragal	.....	Member
P. Santhi Thilagam	.....	Member
U. Shripathi Acharya	.....	Member

*National Institute of Technology Karnataka, Surathkal*

John D'Souza	.....	Member
M. S. Bhat	.....	Member
Muralidhar Kulkarni	.....	Member
Sumam David S.	.....	Member
B. Venkatesa Perumal	.....	Member
G. Ram Mohana Reddy	.....	Member
Santhosh George	.....	Member
Murulidhar N. N.	.....	Member
Narendranath S.	.....	Member
Gangadharan K. V.	.....	Member
H. Suresh Hebbar	.....	Member
Shrikantha S. Rao	.....	Member
Vijay H. Desai	.....	Member
Udaya Bhat K.	.....	Member
A. O. Surendranathan	.....	Member
Jagannath Nayak	.....	Member
K. Narayan Prabhu	.....	Member
M. Govinda Raj	.....	Member
V. R. Sastry	.....	Member
M. N. Satyanarayan	.....	Member
Aloysius Henry Sequeira	.....	Member
P. G. Mohanan, System Manager, CCC	.....	Member
K. Ravindranath, Registrar	.....	Secretary

**Preamble:**

At the outset of the meeting Chairman welcomed all the members to the 42<sup>nd</sup> Senate Meeting.

After a brief discussion, with the permission of Chair, the Secretary Senate, began the deliberations on the Agenda Items.

**Item No. 42.1: CONFIRMATION OF MINUTES OF THE 41<sup>st</sup> MEETING OF THE SENATE HELD ON OCTOBER 27, 2016.**

The Senate resolved to confirm the minutes of the 41<sup>st</sup> Senate Meeting.

**Item No. 42.2: REVIEW OF ACTION TAKEN ON THE MINUTES OF 41<sup>st</sup> SENATE MEETING HELD ON OCTOBER 27, 2016.**

The actions taken on the minutes of the 41<sup>st</sup> Senate meeting were noted.

**Item No. 42.3: ITEMS PLACED BEFORE THE 42<sup>nd</sup> SENATE MEETING HELD ON JUNE 14, 2017.**

**Discussion and Decision Items:**

**Item No. 42.3.1: Agenda items discussed in the 31<sup>st</sup> Board of Studies meeting held on April 27, 2017.**

**ITEM No: 31-BOS-1: Introduction of new UG programme Elective Course:**

Resolution of the BOS	Resolution of the Senate
<p>a) Department of Mathematical and Computational Sciences - The BOS resolved to recommend the inclusion of following elective in the list of Electives of UG programme.</p> <p>MA 409 Advanced Linear Algebra (3-0-0) 3 PREREQ: A pass in MA 204/EC224/EE243</p>	<p>The Senate resolved to approve the inclusion of New Elective by Department of Mathematical and Computational Sciences in UG Curriculum</p>
<p>b) Department of Metallurgical &amp; Materials engineering - BOS resolved to recommend the inclusion of following elective in the list of electives for UG programme.</p> <p>MT 417 – Thin Films, Coatings &amp; Applications.</p> <p>BOS resolved to <i>defer</i> the proposal of inclusion of following elective in the list of electives for UG programme.</p> <p>MT 477 – Mineral Beneficiation</p>	<p>The Senate resolved to approve the inclusion of New Elective by Department of Metallurgical and Materials Engineering in UG Curriculum.</p> <p>The Senate noted the BOS resolution</p>



<p>c) Department of Information Technology - The BOS resolved to recommend the additional elective courses for B.Tech as follows: i) IT 368 Data Analytics (3-0-0) 3 ii) IT 369 Communication Technologies for Internet of Things (3-0-2) 4</p> <p>d) Department of Mechanical Engineering - The BOS resolved to recommend the inclusion of following new courses: ME 333 Introduction to Additive Manufacturing (3-0-0) 3 ME 216 Analytical Dynamics (2-1-0) 3</p> <p>e) Department of Civil Engineering - The BOS resolved to recommend the inclusion of a new elective in the curriculum of B.Tech Civil Engineering as follows: CV 490 Non - Destructive Testing and Evaluation for Concrete Structures (3-0-0) 3</p>	<p>The Senate resolved to approve the inclusion of New Electives by Department of Information Technology in UG Curriculum</p> <p>The Senate resolved to approve the inclusion of New Electives by Department of Mechanical Engineering in UG Curriculum</p> <p>The Senate resolved to approve the inclusion of New Electives by Department of Civil Engineering in UG Curriculum</p>
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**ITEM No: 31-BOS-2: Modification of courses in the curriculum under UG Programme:**

Resolution of the BOS	Resolution of the Senate
<p>Department of Metallurgical &amp; Materials engineering - The BOS resolved to recommend the modifications in the in the following Syllabus due to certain reasons: MT 266 - Measurements and Control (3-0-0) 3 MT 325 - Fuels, Furnaces and Refractories (3-0-0) 3</p>	<p>The Senate resolved to approve the modifications in the syllabus of courses by Department of Metallurgical &amp; Materials engineering in UG Curriculum</p>



**ITEM No: 31-BOS-3:**

**Introduction of New PG Level Elective Courses:**

Resolution of the BOS	Resolution of the Senate
<p>a) Department of Mathematical and Computational Sciences - The BOS resolved to recommend the inclusion of following elective in the list of Electives of MCA programme. MCA 830 Object Oriented Programming with JAVA (3-0-0) 3</p>	<p>The Senate resolved to approve the inclusion of New Elective by Department of Mathematical and Computational Sciences in PG Curriculum</p>
<p>b) Department of Information Technology - The BOS resolved to recommend the additional elective courses for M.Tech as follows:</p> <p>i) IT 827 Topics in Soft Computing (3-0-2) 4 ii) IT 828 Designing Internet of Things (3-0-2) 4</p>	<p>The Senate resolved to approve the inclusion of New Electives by Department by Information Technology in PG Curriculum</p>
<p>c) Department of Metallurgical &amp; Materials engineering- The BOS resolved to recommend the inclusion of new elective course: PM 807- Advanced Mineral Processing (3-0-0) 3</p>	<p>The Senate resolved to approve the inclusion of New Elective by Department of Metallurgical &amp; Materials engineering in PG Curriculum</p>
<p>d) Department of Applied Mechanics and Hydraulics - The BOS resolved to recommend the inclusion of the following PG Courses for different programs:</p> <p>i) AM 803 Numerical Methods for Civil Engineering Applications (3-0-0)3 ii) AM 804 Statistical Methods for Civil Engineering Applications (3-0-0)3 iii) MS 823 Fundamentals of Submarine Hydrodynamics (3-0-0)3 iv) MS 824 Computational Hydrodynamics Lab (0-0-3)2 v) MS 825 Foundation for Offshore Structures (3-0-0)3 vi) MS 826 Design of Offshore Structures (3-0-0)3 vii) RS 709 Application of unmanned Aerial Vehicles in Civil Engineering (3-0-0)3 viii) WR 814 Integrated Watershed Management (3-0-0)3</p>	<p>The Senate resolved to approve the inclusion by New Electives of Department of Applied Mechanics and Hydraulics in PG Curriculum</p>

**ITEM No: 31-BOS-4: Modification of courses in the curriculum under PG Programme:**

Resolution of the BOS	Resolution of the Senate
<p>a) Department of Mathematical and Computational Sciences - The BOS resolved to <b>defer</b> the proposal on reducing the MCA intake strength from 92 to 46, as it is an administrative matter.</p>	<p>The Senate noted the BOS resolution</p>
<p>b) Department of Metallurgical &amp; Materials engineering - The BOS resolved to recommend the modifications in the following course:  ML 705 – Ceramics Engineering (3-1-0) 4</p>	<p>The Senate resolved to approve the modifications in course by Department of Metallurgical &amp; Materials engineering in PG Curriculum</p>
<p>c) Department of Applied Mechanics and Hydraulics - The BOS resolved to recommend the revision of following course: MS 801 Numerical Modelling of Coastal Processes (3-0-0) 3</p>	<p>The Senate resolved to approve the revision in course by Department of Applied Mechanics and Hydraulics in PG Curriculum</p>
<p>d) Department of Mechanical Engineering – The BOS resolved to recommend the revision of the following courses: i) TH 704 Thermal Engineering Lab (0-0-3) 2 ii) ME 803 Wind Energy (2-0-2) 3</p>	<p>The Senate resolved to approve the revision of courses of Department of Mechanical engineering in PG Curriculum</p>

**ITEM No: 31-BOS-5: Expedition of PhD Evaluation :**

Resolution of the BOS	Resolution of the Senate
<p>Department of Applied Mechanics and Hydraulics has forwarded the procedure of selection of referees at IITB. The BOS noted the procedure which is partially followed at NITK. But it was decided to <b>defer</b> the discussion on the issue.</p>	<p>The Senate noted the BOS resolution</p>

**ITEM No: 31-BOS-6: Introduction of 900 level courses for PhD Programme:**

Resolution of the BOS	Resolution of the Senate
<p>Department of Information Technology – The BOS resolved to recommend the additional 900 Level Courses for Ph.D. Programme as follows:</p> <p>i) IT 930 : Natural Language Processing and Applications 4</p> <p>ii) IT 931 : Deep Learning for Natural Language Processing 4</p> <p>iii) IT 932 : Intelligent Information Retrieval 4</p> <p>BOS resolved to <i>defer</i> the proposal of 'IT 933 : Designing Internet of Things' 4</p>	<p>The Senate resolved to approve the additional 900 level courses of Department of Information Technology in the PG Curriculum</p> <p>The Senate noted the BOS resolution</p>

**ITEM No: 31-BOS-7: Starting of MTech (Research) and PhD Programme in collaboration with APDDRL, Bangalore.**

Resolution of the BOS	Resolution of the Senate
<p>i) BOS resolved to recommend the acceptance of the proposal, which is based on the MOU signed between NITK and APDDRL, and admit annually up to 10 students each for MTech (Research) and PhD programmes in various departments, as external registrants.</p> <p>ii) BOS authorized the Chairman-BOS to assign the additional Guides among the approved list of experts from APDDRL, after candidates from APDDRL are selected for admission and Institute Guides are identified. If any expert, other than among the enclosed list, is suggested for additional guide, the same has to be approved by the BOS separately. List of experts approved :</p> <ol style="list-style-type: none"> <li>1. Dr. M. Abdul Kader (PhD, IIT Kharagpur)</li> <li>2. Dr. S. Rajkumar (Ph.D. University of Totonto, Canada)</li> <li>3. Dr. K. Rajashekar (Ph.D. University of Totonto, Canada)</li> <li>4. Dr. Rajesh Panda (Ph.D. University of Totonto, Canada)</li> </ol>	<p>The Senate resolved to approve the BOS recommendation</p> <p>The Senate resolved that Guides from APDDRL may be approved by the BOS only after the candidates are selected for PhD/MTech(R) admissions, as per the regulations.</p>



ITEM No: 31-BOS-8:

Inclusion of External Additional Guides:

Resolution of the BOS	Resolution of the Senate
<p>a) Department of <b>Physics</b> – The BOS resolved to approve that, Dr. T. Srinivas, Assoc. Professor, Applied Photonics Lab, IISc, Bangalore be considered for inclusion as an Additional Research Guide for Mr. Yadunath T R (PH15P03) in the department of Physics.</p> <p>b) Department of <b>Electronics &amp; Communication Engineering</b> – The BOS resolved to approve that, Dr. Mohammad S. Sharawi, Professor, Electrical Engineering Dept. King Fahd University of Petroleum and Minerals Dhahran, Saudi Arabia, be considered for inclusion as an Additional Research Guide for Ms. Princy Maria Paul (EC15F05) in the department of Electronics &amp; Communication Engineering</p> <p>c) Department of <b>Metallurgical &amp; Materials Engineering</b> – The BOS resolved to approve that,</p> <p>i) Dr. Dipti Gupta, Professor, Material Science and Engineering, IIT Bombay, be considered for inclusion as an Additional Research Guide for Mr. Pavan Pujar (MT15F03) in the department of Metallurgical &amp; Materials Engineering.</p> <p>ii) Dr. K. Devakumaran, Deputy Manager, WRI, BHEL, be considered for inclusion as an Additional Research Guide for Mr. R. Rajeshkumar (MT15F09) in the department of Metallurgical &amp; Materials Engineering.</p> <p>iii) Dr. K. Devakumaran, Deputy Manager, WRI, BHEL, be considered for inclusion as Additional Research Guide for Mr. Gurudath B. (MT16F02) in the department of Metallurgical &amp; Materials Engineering</p> <p>d) Department of <b>Mechanical Engineering</b> – The BOS resolved to approve that,</p> <p>i) Dr. Ch Kanna Babu, Chief Manager (Design), Aero Engine Research and Design Centre, Hindustan Aeronautics Ltd., Bangalore, be considered for inclusion as Additional Guide for Mr. Srinivasa Rao Bommisetty (ME15P04) in the Department of Mechanical Engineering.</p>	<p>The Senate noted the resolution of BOS.</p> <p>The Senate noted the resolution of BOS.</p> <p>The Senate noted the resolution of BOS.</p> <p>The Senate noted the resolution of BOS.</p>

<p>ii) Dr. Shakti Singh Chauhan, Institute of Wood Science and Technology, Bengaluru, be considered for inclusion as Additional Guide for Mr. Mithun Kumar (ME15F20) in the Department of Mechanical Engineering.</p> <p>iii) Dr. Santhosh B, Head, Structural Design Section, Composite Entity, Vikram Sarabhai Space Centre, Indian Space Research Organization, Thiruvananthapuram, be considered for inclusion as Additional Guide for Mr. S. Sachin (ME16F15) in the Department of Mechanical Engineering. (Dr. Shivananda Nayaka H will be the Guide from the Department of Mechanical Engineering)</p>	
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**ITEM No: 31-BOS-9:**

**Any other matter :**

Resolution of the BOS	Resolution of the Senate
<p>1. Nominating Secretary BOS. BOS resolved to recommend that, until the appointment of Deputy Registrar (Academic), the Assistant Registrar (Academic) will act as the Secretary, BOS.</p>	<p>The Senate resolved to approve the recommendation of BOS.</p>
<p>2. Inclusion of several recently recruited faculty members as special invitees for BOS : The BOS resolved to withdraw the agenda.</p>	<p>The Senate noted the resolution of BOS.</p>

**ITEM No: 31-BOS-10:**

**New Elective subject for M.Tech (IB) for Academic Year 2017-18:**

Resolution of the BOS	Resolution of the Senate
<p>The BOS resolved to recommend the following course which will be offered as <u>electives</u> for M.Tech (Industrial Biotechnology).</p> <p>IB 815 - Molecular Biology of Bacterial and Viral infections (3-0-0) 3</p>	<p>The Senate resolved to approve the New Elective IB 815 in the PG Curriculum</p>

**Item No. 42.3.2:**

**Finalization of the date of 15<sup>th</sup> Annual Convocation of the Institute.**

The Senate resolved to empower Chairman Senate to finalize the Convocation date in consultation with BoG Chairperson.

**Item No.42.3.3: Waive-off two years' work experience for admission under the category of External Registration for PhD and M Tech (Research) Applicants – Proposal submitted by APDDRL, Bangalore.**

The Senate resolved to follow the existing academic regulations and not to waive off two-years' work experience for admission under the category of External Registrations for PhD and M Tech (Research).

**Item No.42.3.4: Modifications in Academic Calendar and curriculum - Proposal of Prof. A.O Surendranathan, Department of Metallurgical and Materials Engineering.**

The Senate resolved that proposed modifications in academic calendar and curriculum are not necessary.

**Item No. 42.3.5: Request to condone the delay in Submission of Research Proposal.**

The Senate resolved to condone the delay in Research Proposal submission by Ms A O L Tripura Sundari of the Department of Electrical and Electronics Engineering.

**Item No. 42.3.6: Request for extension of PhD Registration beyond 7 years of Registration.**

The Senate resolved not to extend the PhD registration beyond 7 years, which is the maximum duration as per applicable NITK-regulations, to any PhD student.

The senate further resolved that those PhD students, who have not submitted the thesis within 7 years from the date of PhD registration, may submit the draft of the synopsis and the draft of the thesis, along with research publications, at a later date to the Director/Senate-Chairperson for consideration. The Director will appoint a committee to consider the merit of the request, on a case-to-case basis. Subsequently, based on the recommendations of the Committee and approval by the Director, the synopsis and thesis may be submitted by the candidate through his guide and concerned DRPC to the Dean (Academic) for further processing. In such a case, the concerned student will have to pay all the applicable Institute fees for the entire break period, including the semester in which thesis is being submitted now, before the thesis is sent to referees for evaluation.

**Item No.42.3.7: Change of Research Guide for the PhD Scholar of Department of Electrical and Electronics Engineering.**

After detailed deliberations, the Senate resolved that the PhD Scholar Mr Sentil Kumar, Department of Electrical and Electronics Engineering, will continue in the PhD programme without having a guide. The panel for the RPAC for this scholar shall be recommended by the DRPC and be approved by the Dean (Academic), with DRPC chairman himself/herself serving as chairman of RPAC.

Also, DRPC chairman will sign/forward, on behalf of the Guide, all the official documents related to the PhD programme for this scholar.

The scholar will have to complete all the necessary requirements as per applicable PhD regulations including Research proposal Seminar, Two Progress Seminars, Publication in peer-reviewed journals/conferences etc before submitting the PhD Synopsis and Thesis for evaluation.

**Item No.42.3.8: Branch change from Computer Science Engineering to the other Branch – request submitted by B Tech 1<sup>st</sup> year student.**

After detailed deliberations, the Senate resolved to consider the request of branch change by Mr Saddam Hussain C B (16CO245) from BTech (CSE) to any other suitable branch of the Institute, on humanitarian grounds, if the DUGC of the concerned department agrees to admit the student.

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



(K. Ravindranath)

Secretary-Senate, NITK

*will*



(K. N. Lokesh)

Chairman-Senate, NITK