

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

P.O. SRINIVASNAGAR, MANGALURU-575025



MINUTES OF THE 47th SENATE MEETING

Date : 05.04.2019 (Friday)
Time : 2:30 PM onwards
Venue : Senate Hall, 'C' Block, LHC
N.I.T.K., Surathkal
MANGALURU
PIN - 575 025



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**Proceedings of the 47th Meeting of the Senate of N.I.T.K. Surathkal held on
April 05, 2019 (Friday) at 2:30PM at the Senate Hall, 'C' Block – LHC,
N.I.T.K. Surathkal.**

MEMBERS PRESENT:

K. Umamaheshwar Rao	.....	Chairman
Ananthanarayana V. S.	.....	Member
M. B. Saidutta	.....	Member
Aloysius Henry Sequeira	.....	Member
Subhash C Yaragal	.....	Member
K Panduranga Vittal	.....	Member
Jagannath Nayak	.....	Member
Vidya Shetty K	.....	Member
Ashvini Chaturvedi	.....	Member
Amba Shetty	.....	Member
Arkal Vittal Hegde	.....	Member
Dwarakish G S	.....	Member
Kiran G. Shirlal	.....	Member
Lakshman Nandagiri	.....	Member
Subba Rao	.....	Member
Pareesh Chandra Deka	.....	Member
Hari Mahalingam	.....	Member
G. Srinikethan	.....	Member
Arun Mohan Isloor	.....	Member

National Institute of Technology Karnataka, Surathkal

Denthaje Krishna Bhat	.....	Member
A. Chitharanjan Hegde	.....	Member
A. Nityananda Shetty	.....	Member
A. Vasudeva Adhikari	.....	Member
Badekai Ramachandra Bhat	.....	Member
Varghese George	.....	Member
Katta Venkataramana	.....	Member
A U Ravi Shankar	.....	Member
K Swaminathan	.....	Member
R Shivashankar	.....	Member
S Shrihari	.....	Member
Sitaram Nayak	.....	Member
B R Jayalekshmi	.....	Member
Alwyn Roshan Pais	.....	Member
Annappa	.....	Member
T. Laxminidhi	.....	Member
M. S. Bhat	.....	Member
Muralidhar Kulkarni	.....	Member
Sumam David S.	.....	Member
B. Venkatesa Perumal	.....	Member
Shubhanga K N	.....	Member
Gururaj S Puneekar	.....	Member
G. Ram Mohana Reddy	.....	Member
B. R. Shankar	.....	Member
Shyam S. Kamath	.....	Member
Santhosh George	.....	Member
Murulidhar N. N.	.....	Member
Shrikantha S. Rao	.....	Member

National Institute of Technology Karnataka, Surathkal

Prasad Krishna	.....	Member
Ashok Babu T P	.....	Member
Gangadharan K. V.	.....	Member
Ravikiran Kadoli	.....	Member
S. M. Kulkarni	.....	Member
Narendranath S.	.....	Member
Vijay H. Desai	.....	Member
S. M. Murigendrappa	.....	Member
Udaya Bhat K.	.....	Member
A. O. Surendranathan	.....	Member
K. Narayan Prabhu	.....	Member
Karra Ram Chandar	.....	Member
Ch. S. N. Murthy	.....	Member
M. Govinda Raj	.....	Member
H.S. Nagaraja	.....	Member
M. N. Satyanarayan	.....	Member
H. D. Shashikala	.....	Member
Kasturi. V. Bangera	.....	Member
N. K. Udayashankar	.....	Member
S Pavan Kumar	.....	Member
K. B. Kiran	.....	Member
Mallikarjuna Angadi, Librarian	.....	Member
Anuj Sharma	.....	Special Invitee
K. Ravindranath, Registrar	.....	Secretary

MEMBERS ABSENT:

N. C. Shivaprakash	.....	External Member
Rama Govindarajan	.....	External Member
Haripriya Gundimeda	.....	External Member
P. G. Mohanan, System Manager, CCC	.....	Member
H. Suresh Hebbar	.....	Member
G. C. Mohan Kumar	.....	Member
Anandhan Srinivasan	.....	Member
U Shripathi Acharya	.....	Member
A Mahesha	.....	Member
Raj Mohan B	.....	Member
Gopal Mugeraya (on deputation to NIT Goa as Director)	.....	Member
K S Babu Narayan	.....	Member
M C Narasimhan	.....	Member
K N Lokesh	.....	Member
K. Chandrasekaran	.....	Member
P. Santhi Thilagam	.....	Member
John D'Souza	.....	Member
Udayakumar R.Y.(on deputation to MNIT, Jaipur as Director)	.....	Member
A. Kandasamy	.....	Member
Suresh M Hegde	.....	Member
V. R. Sastry (on lien to Dr. BAT University, Lonere, Maharashtra as Vice Chancellor)	.....	Member
Prabhjot Kaur Luthra	.....	Special Invitee

PREAMBLE:

At the outset of the meeting Chairman welcomed all the members to the 47th Senate Meeting.

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

Item No. 47.1: CONFIRMATION OF MINUTES OF THE 46th MEETING OF THE SENATE HELD ON NOVEMBER 02, 2018.

The Senate resolved to confirm the minutes of the 46th Senate Meeting.

Item No. 47.2: TO CONSIDER THE REPORT ON ACTION TAKEN ON THE MINUTES OF 46th SENATE MEETING HELD ON NOVEMBER 02, 2018 - Reg.

The actions taken on the minutes of the 46th Senate meeting were noted.

Item No. 47.3: TO CONSIDER THE ITEMS PLACED BEFORE THE PRESENT (47th) SENATE MEETING TO BE HELD ON APRIL 05, 2019 AT 2:30PM IN THE SENATE HALL 'C' BLOCK, NITK, SURATHKAL - REG.

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Discussion and Decision Items:

Item No. 47.3.1: To consider the Agenda items discussed in the 33rd Board of Studies meeting held on March 26, 2019 - Reg.

ITEM No: 33-BOS - 1: Introduction of new UG Programme - proposal of Department of MACS

Resolution of the BOS	Resolution of the Senate
The BoS resolved after detailed deliberation to constitute a sub-committee to look-into the Course structure and Course Content of the proposed B.Tech program proposed by the Department of MACS. The Sub-committee will submit its final report to the Chairperson, Board of Studies who is authorized to take decision on behalf of the BOS for submission to the Senate.	The Senate approved the BoS resolution



ITEM No: 33-BOS - 2: Introduction of new UG Programme - proposal of Department of Physics

Resolution of the BOS	Resolution of the Senate
The BoS resolved after some deliberation to treat the proposal of Department of Physics for introduction of new BTech programme from the academic year 2019-20 as withdrawn.	The Senate noted the BoS resolution

ITEM No: 33-BOS - 3: Change of name of M Tech Programme (Computational Mathematics (CMA)- Proposal of Department of MACS

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the proposal of Department of MACS for Change of name of M.Tech Programme (Computational Mathematics (CMA) to M.Tech in Computational and Data Science (CDS) from the academic year 2019-20.	The Senate resolved to approve the BoS resolution

ITEM No: 33-BOS - 4: Modification for Honours Degree requirement (UG Curriculum 2018) - Dept. of E&C Engg.

Resolution of the BOS	Resolution of the Senate				
<p>The BoS resolved not to recommend the modification for Honours Degree as proposed by the department of Electronics & Communication Engineering. However the existing regulation is modified suitably.</p> <p>Honours Degree requirement (UG Curriculum 2018) Proposed by E&C.</p> <table border="1"> <thead> <tr> <th>Existing in draft UG curriculum of 2018</th> <th>Modification requested</th> </tr> </thead> <tbody> <tr> <td>Students seeking Honours degree shall credit PG courses offered by the Department of Electronics and Communication Engineering. The list of courses available for crediting in a given semester shall be decided by the DUGC. In addition, such students shall do their Major Project in the department.</td> <td> <p>Requirement for Honors Degree:</p> <ol style="list-style-type: none"> Students seeking Honors degree shall credit PG courses offered by the Department of Electronics and Communication Engineering. They shall earn a minimum of 20 credits form these courses. The list of courses available for crediting in a given semester shall be decided by the DUGC. All students registered for Honours Degree shall do their Major Project in the department. </td> </tr> </tbody> </table>	Existing in draft UG curriculum of 2018	Modification requested	Students seeking Honours degree shall credit PG courses offered by the Department of Electronics and Communication Engineering. The list of courses available for crediting in a given semester shall be decided by the DUGC. In addition, such students shall do their Major Project in the department.	<p>Requirement for Honors Degree:</p> <ol style="list-style-type: none"> Students seeking Honors degree shall credit PG courses offered by the Department of Electronics and Communication Engineering. They shall earn a minimum of 20 credits form these courses. The list of courses available for crediting in a given semester shall be decided by the DUGC. All students registered for Honours Degree shall do their Major Project in the department. 	The Senate resolved to approve the BoS resolution
Existing in draft UG curriculum of 2018	Modification requested				
Students seeking Honours degree shall credit PG courses offered by the Department of Electronics and Communication Engineering. The list of courses available for crediting in a given semester shall be decided by the DUGC. In addition, such students shall do their Major Project in the department.	<p>Requirement for Honors Degree:</p> <ol style="list-style-type: none"> Students seeking Honors degree shall credit PG courses offered by the Department of Electronics and Communication Engineering. They shall earn a minimum of 20 credits form these courses. The list of courses available for crediting in a given semester shall be decided by the DUGC. All students registered for Honours Degree shall do their Major Project in the department. 				

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Existing in UG Regulations of 2018	Modified	
<p>3.8 Honors programme in B Tech</p> <p>a) A student in a particular discipline can take additional specified courses at postgraduate level in the same discipline totaling 15 to 20 credits. If he/she gets a GPA of 6.0 and above in these courses, then it will find a mention in their grade cards and degree certificate.</p> <p>b) A student can opt for Honors in Third Semester and register for Honors Courses from Fifth to Eighth Semesters. Students who have cleared all the courses of first and second semester in first attempt and have obtained a CGPA of 8.0 and above are eligible to register for Honors courses.</p> <p>c) In case a student does not get a GPA of 6.0 and above in Honors courses, he/she is not eligible to receive Honors degree. However, these courses may then be counted towards their elective requirement.</p>	<p>3.8 Honors programme in B Tech</p> <p>a) A student in a particular discipline can take additional specified courses (by the respective DUGCs) at postgraduate level in the same discipline totaling 15 to 20 credits. If he/she gets a GPA of 6.0 and above in these courses, then it will find a mention in their grade cards and degree certificate.</p> <p>b) A student can opt for Honors in Third Semester and register for Honors Courses from Fifth to Eighth Semesters. Students who have cleared all the courses of first and second semester in first attempt and have obtained a CGPA of 8.0 and above are eligible to register for Honors courses.</p> <p>c) In case a student does not get a GPA of 6.0 and above in Honors courses, he/she is not eligible to receive Honors degree. However, these courses may then be counted towards their elective requirement.</p>	<p>The Senate resolved to approve the BoS resolution</p>

ITEM No: 33-BOS - 5: Introduction of new UG program Elective Courses:

Resolution of the BOS	Resolution of the Senate
<p>a) Department of Electronics and Communication Engineering –</p> <p>The BOS resolved to recommend the inclusion of following elective in the list of Electives of UG programme.</p> <p>EC459 Optimization (3-1-0) 4 EC460 Neural Networks and Deep Learning (3-1-0) 4 EC477 Imaging Information & Computational Physics (3-1-0) 4</p> <p>b) Department of Information Technology</p> <p>The BOS resolved to recommend the inclusion of following elective in the list of Electives of UG programme</p> <p>IT 464 Foundations of Machine Learning (3-0-2) 4 IT 465 Cryptocurrencies and Blockchain Technologies (3-0-2) 4 The details are attached as an ANNEXURE- , Page No.</p>	<p>The Senate resolved to approve the BoS resolution</p> <p>The Senate resolved to approve the BoS resolution</p>

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<p>c) The Department of Mechanical Engineering</p> <p>The BOS resolved to recommend the inclusion of following elective in the list of Electives of UG programme.</p> <p>ME 431 Continuum Mechanics (3-0-0) 3</p> <p>The details are attached as an ANNEXURE- , Page No.</p>	<p>The Senate resolved to approve the BoS resolution</p>
<p>d) The School of Management</p> <p>The BOS resolved to recommend the inclusion of following elective in the list of Electives of UG programme.</p> <p>SM 459 Advanced Course on Entrepreneurship (3-0-0) 3</p> <p>The details are attached as an ANNEXURE- , Page No.</p>	<p>The Senate resolved to approve the BoS resolution</p>

ITEM No: 33-BOS - 6: Introduction of new PG program Elective Courses:

Resolution of the BOS	Resolution of the Senate
<p>a) Department of Electronics and Communication Engineering</p> <p>The BOS resolved to recommend the inclusion of following electives of PG programme with a rider that EC876 name be changed as it clashes with EC477 which also has the same course name.</p> <p>EC875 Nonlinear Dynamics, Chaos And Fractals (4-0-0) 4 EC876 Computational Imaging and Physics (4-0-0) 4</p>	<p>The Senate resolved to approve the BoS resolution</p>
<p>b) The School of Management</p> <p>The BOS resolved to recommend the inclusion of following elective in the list of Electives of PG programme.</p> <p>SM 859 Machine Learning for Business Management (3-0-0) 3</p> <p>SM 831 Marketing Metrics - with Prerequisite : Marketing Management, Marketing Research (3-0-0) 3</p>	<p>The Senate resolved to approve the BoS resolution</p>
<p>a) The Department of Information Technology</p> <p>The BOS resolved to recommend the inclusion of following elective in the list of Electives of PG programme.</p> <p>IT 832 Blockchain Technologies and Applications (3-0-2) 4 – Decentralization and Smart Contracts</p> <p>IT 833 Advanced Time Series Analysis (3-0-2) 4 IT 834 Performance Evaluation of Computer Systems and Software (3-0-2) 4</p>	<p>The Senate resolved to approve the BoS resolution</p>



<p>b) The Department of Physics</p> <p>The BOS resolved to recommend the inclusion of following elective in the list of Electives of PG programme.</p> <p>PH 870 Quantum Computation (3-0-0) 3</p>	<p>The Senate resolved to approve the BoS resolution</p>
<p>c) The Department of Applied Mechanics and Hydraulics</p> <p>The BOS resolved to recommend the inclusion of following elective in the list of Electives of PG programme, with appropriate change of name for the course.</p> <p>AM825 Advanced applications of open source technology (2-0-2) 3 in marine structures</p>	<p>The Senate resolved to approve the BoS resolution</p>
<p>d) The Department of Electrical and Electronics Engineering</p> <p>The BOS resolved to recommend the inclusion of following elective in the list of Electives of PG programme.</p> <p>EE871 Soft-switching Power Converters (3-0-0)3 Pre-requisites: Basic course in power electronics</p> <p>EE872 Soft-switching Power Converters Laboratory (0-0-3)2</p>	<p>The Senate resolved to approve the BoS resolution</p>

ITEM No: 33-BOS - 7: Modification in the contents of the courses in the UG Curriculum:

Resolution of the BOS	Resolution of the Senate
<p>The BOS resolved to recommend the modification in the contents of the courses in the UG Curriculum of the School of Management</p> <p>Entrepreneurship Development (SM 451) to SM451 Foundation Course on Entrepreneurship (3-0-0)3</p>	<p>The Senate resolved to approve the BoS resolution</p>

ITEM No: 33-BOS - 8: Modification in the contents of the courses in the PG Curriculum 2018:

Resolution of the BOS	Resolution of the Senate
<p>The BOS resolved to recommend the modification in the contents of the courses in the UG Curriculum.</p> <p>a) The School of Management Econometrics : Theory and Applications (MBA 8G12) to SM860 Data Analytics : Business Decision Making under the head Analytics (3-0-0) 3</p> <p>b) The Department of Mechanical Engineering Applications of Numerical Methods in Design (ME-715) to Applications of FEM in Design</p>	<p>The Senate resolved to approve the BoS resolution</p>

ITEM No: 33-BOS - 9: Minor changes in the UG curriculum

Resolution of the BOS	Resolution of the Senate
<p>The BOS resolved to recommend the minor changes in the UG Curriculum.</p> <p>Department of Electronics and Communication Engineering</p> <p>Existing Modification</p> <p>1.EC391 Signals and Systems to EC391 Analog Electronics</p> <p>2.EC393 Analog Electronics to EC393 Signals and Systems</p>	<p>The Senate resolved to approve the BoS resolution</p>

ITEM No: 33-BOS - 10: Inclusion of External Additional Guides: The Department of Computer Science & Engineering.

Resolution of the BOS	Resolution of the Senate
<p>The BOS resolved to approve that, Dr. Animesh Acharjee, Senior Research Fellow / Senior Scientist, Institute of Cancer and Genomic Science University of Birmingham be considered for inclusion as an Additional Research Guide Ms. Saraswati Koppad, (177CO005) in the department of Computer Science & Engineering.</p>	<p>The Senate resolved to approve the BoS resolution</p>

ITEM No: 33-BOS - 11: Recognition of faculty as Research Guides:

Resolution of the BOS	Resolution of the Senate
<p>The BOS resolved to ratified the list of faculty who were recognized as Research Guide after 32nd BOS meeting based on the respective DRPC recommendations.</p>	<p>The Senate resolved to approve the BoS resolution</p>

ITEM No: 33-BOS - 12: List of Minor subjects offered by Dept. of Chemistry

Resolution of the BOS	Resolution of the Senate
<p>The BOS resolved to recommend the inclusion of minor subjects offered by Dept. of Chemistry in the UG Curriculum 2018.</p>	<p>The Senate resolved to approve the BoS resolution</p>



ITEM No: 33-BOS - 13: Modification in B.Tech and M.Tech Curriculum –Proposal of department of Civil Engineering.

Resolution of the BOS	Resolution of the Senate
<p>The BOS resolved to recommend the inclusion of following new electives for PG Curriculum 2018</p> <ol style="list-style-type: none"> 1. M Tech (Environmental Engineering) CV880 : Environment and Climate Change (3-0-0)3 as new Electives 2. M Tech (Geotechnical Engineering) CV830 : Geo-Disaster Mitigation (3-0-0)3 <p>The BOS resolved to recommend the introduction of new elective for UG Curriculum 2018 CV491 –Bituminous Materials , Mixtures and Pavements (3-0-0)3</p> <p>The BOS resolved to recommend the changes in UG Curriculum of Department of Civil Engineering. The details are attached as in ANNEXURE- , Page No.</p>	<p>The Senate resolved to approve the BoS resolution</p>

ITEM No: 33-BOS - 14: Minor in Management – Proposal of School of Management

Resolution of the BOS	Resolution of the Senate
<p>The BOS resolved to recommend the inclusion of list of minors in Management as proposed by the School of Management.</p>	<p>The Senate resolved to approve the BoS resolution</p>

ITEM No: 33-BOS - 15: Corrections in 2018 Regulations & Curriculum

Resolution of the BOS	Resolution of the Senate
<p>The BOS Chairman informed the members that the UG and PG Curriculum 2018 needs thorough checking due to numerous errors committed by the respective departments in submitting data. Erroneous data related to Course Codes, Course names, Course Credits, Inclusion of new courses by the Department has been noticed at several places. In-view-of this it is decided to invite Department representatives for thorough vetting of curriculum of their respective departments.</p> <p>The changes arising out of it may be incorporated in to the curriculum by the Chairperson, BOS and ratified later.</p>	<p>The Senate noted the BoS resolution</p>



Item No. 47.3.2: To consider the Conduct of Annual Convocation for UG Students within 15 days of announcement of the results for the award of the degree – Proposal of the Chairperson, Board of Governors - Reg.

It was brought to the notice of the Senate that matter related to early conduct of convocation was discussed amongst the Deans. It is felt that the convocation could be conducted at an earlier date than the present practice of having it in the month of November. However number of factors like time needed for preparation, rains, accommodation of students and parents, rescheduling of academic calendar etc need to be considered before taking a decision in this regard.

After detailed deliberations on the possibilities to reschedule the conduct of Annual Convocation of the Institute, it was unanimously resolved to decide in the Senate that the Annual Convocation could be conducted in the last week of September or in the first week of October. However, it was expressed that it's quite impracticable to conduct the Annual Convocation within 15 days of the announcement of the results due to numerous academic and administrative issues.

Item No.47.3.3: To consider the Extension in PhD Registration of Students who have completed Seven years of PhD Programme – Reg.

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 Ph.D. registration of the students are liable to be terminated and they need to re-register for continuation of Ph.D. programme.

Item No. 47.3.4: To consider the Request to condone the delay in Submission of Research Proposal – Reg.

The Senate resolved to condone the delay in submission of Research proposal by Mr. Prasanna K M (CV16P02), Research Scholar, Department of Civil Engineering.

Item No. 47.3.5: To consider the Certified Courses – Reg.

The Senate resolved that students can be permitted to take certified courses, and the credit equivalence and grading would be done by the respective DUGC/DPGC. These details would appear on the Grade card with unique Course Code given by the respective Department. For example AMCC01 – First two letter are department code, next two letters are short form of certified courses, two digit numeral for the specific course.

Item No.47.3.6: To consider the Submission of PhD thesis after Seven years of PhD Programme – Reg.

The Senate resolved to approve to condone the delay in submission of Thesis of Mr. Bediger Ravindra Ishwar (ME11P06) after seven years of PhD programme.



Item No. 47.3.7: Any other items

1. The Senate resolved to subscribe with Turnitin, Plagiarism detection Software for the year 2019-20 to facilitate detection of plagiarized content in the academic and research works on priority.
2. The Senate deliberated on the Minor Courses offered by few Departments and resolved that due to large overlap of subjects in IT & CS and also between EE & EC, the students of IT/CS are not permitted to take minor in CS/IT and also the students of EE/EC are not permitted to take minor in EC/EE.
3. The Senate resolved that whenever the students admitted in M.Tech. /PhD program acquires GATE/NET qualification, he/she becomes eligible for grant of scholarship as per MHRD guidelines.

Meeting ended with vote of thanks to the Chair.



(K. Ravindranath)
Secretary-Senate, NITK



(K. Umamaheshwar Rao)
Chairman-Senate, NITK



K. Ravindranath
Registrar

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CORRIGENDUM

With reference to the Minutes of the 47th Senate Meeting of NITK, Surathkal held on April 05, 2019(Friday) at 2:30PM at the Senate Hall, 'C' Block – LHC, N.I.T.K. Surathkal., following modifications is incorporated in the proceedings:

1. Addition :

Item No. 47.3.7 (3):

The Senate resolved to approve the increased in the Seat Matrix of all academic programmes of the Institute during the academic year 2019-20 due to the EWS implementation.

2. Modification :

ITEM No: 33-BOS – 6: Introduction of new PG program Elective Courses:

Resolution of the BOS (Existing)	Resolution of the BOS (Modified)
C) The Department of Applied Mechanics and Hydraulics The BOS resolved to recommend the inclusion of following elective in the list of Electives of PG programme, with appropriate change of name for the course. AM825 Advanced applications of open source technology in marine structures (2-0-2) 3	C) The Department of Applied Mechanics and Hydraulics The BOS resolved to recommend the inclusion of following elective in the list of Electives of PG programme, with appropriate change of name for the course. AM825 Advanced technology applications in monitoring of Marine Structures (2-0-2) 3

(K. Ravindranath)
Secretary-Senate, NITK

(K. Umamaheshwar Rao)
Chairman-Senate, NITK