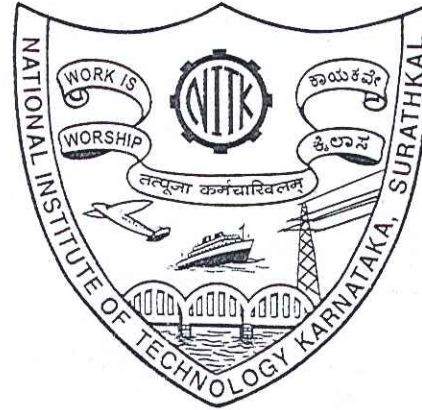# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA
SURATHKAL

MINUTES

OF

45th SENATE MEETING

Date   :   **05.07.2018 (Thursday)**

Time   :   **2.30 p.m. onwards**

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

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL
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Proceedings of the 45th Meeting of the Senate of N.I.T.K. Surathkal held on 05.07.2018 (Thursday) at 2.30PM at the Senate Hall, 'C' Block - LHC of N.I.T.K. Surathkal.

MEMBERS PRESENT:

K. Umamaheshwar Rao	....	Chairman
N.C. Shivaprakash	....	External Member
M. B. Saidutta	....	Member
Aloysius Henry Sequeira	....	Member
Dwarakish G. S.	....	Member
Ananthanarayana V. S.	....	Member
Prasad Krishna	....	Member
S. M. Hegde	....	Member
A. Mahesha	....	Member
Lakshman Nandagiri	....	Member
Nagaraj M. K.	....	Member
Subba Rao	....	Member
Amba Shetty	....	Member
Hari Mahalingam	....	Member
G. Srinikethan	....	Member
Raj Mohan B	....	Member
Vidya Shetty K	....	Member
Denthaje Krishna Bhat	....	Member
A Chitharanjan Hegde	....	Member
A. Nityananda Shetty	....	Member
A.Vasudeva Adhikari	....	Member
Badekai Ramachandra Bhat	....	Member
Arun Mohan Isloor	....	Member
Varghese George	....	Member
K S Babu Narayan	....	Member
K. Swaminathan	....	Member
M. C. Narasimhan	....	Member
S. Shrihari	....	Member

National Institute of Technology Karnataka, Surathkal

Sitaram Nayak	....	Member
Subhash C. Yaragal	....	Member
P. Santhi Thilagam	....	Member
T Laxminidhi	....	Member
U. Shripathi Acharya	....	Member
M. S. Bhat	....	Member
Muralidhar Kulkarni	....	Member
Sumam David S.	....	Member
B. Venkatesa Perumal	....	Member
K Panduranga Vittal	....	Member
Shubhanga K N	....	Member
Gururaj S Punekar	....	Member
G. Ram Mohana Reddy	....	Member
B. R. Shankar	....	Member
Shyam S Kamath	....	Member
Santhosh George	....	Member
Murulidhar N. N.	....	Member
Narendranath S.	....	Member
G. C. Mohan Kumar	....	Member
Gangadharana K. V.	....	Member
H. Suresh Hebbar	....	Member
Shrikantha S Rao	....	Member
Vijay H. Desai	....	Member
S. M. Murigendrappa	....	Member
Anandhan Srinivasan	....	Member
Udaya Bhat K	....	Member
A. O. Surendranathan	....	Member
Jagannath Nayak	....	Member
K. Narayan Prabhu	....	Member
K. Rajendra Udupa	....	Member
M. Govinda Raj	....	Member
M. N. Satyanarayan	....	Member
H. D. Shashikala	....	Member
Kasturi V Bangera	....	Member
K. B. Kiran	....	Member
P. G. Mohanan, System Manager-CCC	....	Member
Mallikarjun Angadi, Librarian	....	Member
K. Ravindranath, Registrar	....	Secretary

<u>Preamble:</u>

At the outset of the meeting Chairman welcomed all the members to the 45th Senate Meeting.

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

Item No. 45.1:	**CONFIRMATION OF MINUTES OF THE 44th MEETING OF THE SENATE HELD ON JANUARY 24, 2018.**

The Senate resolved to confirm the minutes of the 44th Senate Meeting.

Item No. 45.2:	**TO CONSIDER THE REPORT ON ACTIONS TAKEN ON THE MINUTES OF 44th SENATE MEETING HELD ON JANUARY 24, 2018.**

The actions taken on the minutes of the 45th Senate meeting were noted.

Item No. 45.3:	**ITEMS PLACED BEFORE THE 45th SENATE MEETING HELD ON THURSDAY, JULY 05, 2018.**

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<u>Discussion and Decision Items:</u>

Item No. 45.3.1:	**To consider the Academic Calendar of the First year programmes for the academic year 2018-19 (Odd Semester) – Reg.**

The Senate resolved to approve the Academic Calendar proposed for the First year programmes for the academic year 2018-19 (Odd Semester).

Item No. 45.3.2:	**To consider the Participation in CCMN 2018 for admission to M.Sc. programmes from the academic year 2018-19 – Reg.**

The Senate noted the change in policy for admission to M.Sc. programmes from the academic year 2018-19.

Item No. 45.3.3:	**To consider the Nomination of one faculty from Senate to the BoG as per NIT Act 2007 – Reg.**

The Senate resolved that Dr. Uday Bhat K., Department of Metallurgical and Materials Engineering can be retained as BoG Member till the completion of his tenure as per Section 11 of NIT Act 2007 subject to his willingness for continuation.

Item No.45.3.4:	**To consider the Agenda items discussed in the 32nd Board of Studies meeting held on June 08, 2018 – Reg.**

ITEM No: 32-BOS - 1:   Modification in B. Tech Regulations- Admission

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the modification in the section 2.1 of the Regulations of B. Tech Degree Programme to be effective from the academic year 2018-19.	The Senate resolved to approve the recommendations of BoS for modification in the section 2.1 of the Regulations specific to B.Tech. Degree Programme of UG Curriculum to be effective from the academic year 2018-19.

Existing	Proposed
2.1 (a) Admission to NITK, Surathkal will be made in accordance with the instructions received from MHRD from time to time. Seats are reserved for candidates belonging to Scheduled Castes and Scheduled Tribes, Other Backward Classes (OBC), Persons with Disability, **children of defence personnel** and other categories as per the guidelines issued by MHRD.	2.1 (a) Admission to NITK, Surathkal will be made in accordance with the instructions received from MHRD from time to time. Seats are reserved for candidates belonging to Scheduled Castes and Scheduled Tribes, Other Backward Classes (OBC), Persons with Disability and other categories as per the guidelines issued by MHRD.

ITEM No: 32-BOS - 2:   Modification in B. Tech Regulations - Course Structure

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the modification in the section 3 of the Regulations of B. Tech Degree Programme to be effective from the academic year 2018-19. a. **Course Structure (3.1)**	The Senate resolved to approve the recommendations of BoS for modification in Section 3.1: Course Structure of the Regulations specific to B.Tech Degree Programme of UG Curriculum to be effective from the academic year 2018-19.

Existing

3.1 The total course package for a B.Tech Degree Programme will typically consist of the following components.

(a) Foundation Courses   FC   45 – 55 Credits

   A Foundation Course can be any of the following:

   Basic Science Core Courses (BSC),

   Engineering Science Core Courses (ESC),

   Humanities and Social Science Core Courses (HSC)

(b) Programme Core Courses   PC   ≥ 60 Credits

(c) Elective Courses   ELE   ≥ 40 Credits

   An Elective Course can be any of the following:

Programme Specific Electives (PSE)

Open Electives (OE)

(d) Project (Mini Projects and Major Project) MP   8 - 12 Credits

(e) Mandatory Learning Courses   MLC   5   Credits

The Minimum Credit Requirement for the B. Tech Degree is 170 to 180.

Proposed

3.1 The total course package for a B.Tech Degree Programme will typically consist of the Following components.

(a) Foundation Courses   FC   38 – 50 Credits

   A Foundation Course can be any of the following:

     Basic Science Core Courses (BSC),

     Engineering Science Core Courses (ESC),

     Humanities and Social Science Core Courses (HSC)

(b) Programme Core Courses   PC $\geq$ 60 Credits

(c) Elective Courses   ELE $\geq$ 20 Credits

     An Elective Course can be any of the following:

     Programme Specific Electives (PSE)

     Certified MOOCs (NPTEL/SWAYAM etc.,),

     Mini Projects.

(d) Project (Major Project) MP   4 - 6 Credits

(e) Mandatory Learning Courses   MLC   5   Credits

The Minimum Credit Requirement for the B.Tech Degree is 150 to 160.

b. Course Structure (3.2)

Existing	Proposed
3.2 Open electives offered by any parent department are courses listed in the course structure under the open elective category and offered to students of any department including the parent department. The students of a particular programme have to complete the total credits required under the elective category by earning the minimum credits prescribed under the Programme	3.2 The students have the option to register for certified MOOC courses (NPTEL/SWAYAM etc.) limited to 5 credits.

The Senate resolved to approve the recommendations of BoS for modification in Section 3.2 of the Regulations specific to B.Tech Degree Programme of UG Curriculum to be effective from the academic year 2018-19.

Specific Elective (PSE) by registering for courses listed under the PSE category, for the remaining credits to be earned under the elective category, the students have the option to register for courses listed under the Open Elective (OE) category of other departments also		
3.2 Project (MP) Project work may consist of Major Project and Mini Projects (optional) offered by parent department. The Major Project is a course with **8 credits** and can comprise of Part I and Part II, spread over 1 or 2 semesters of final year, preferably during 7th and 8th semesters. DUGC may prescribe Mini Project as a requirement for the B. Tech Degree or in lieu of equivalent elective credits. The method of evaluation for major and minor projects shall be evolved by pertinent DUGC and appropriate double-letter grade is awarded which will be considered for SGPA and CGPA calculation	**3.2 Project (MP)** Project work may consist of Major Project and Mini Projects (optional) offered by parent department. The Major Project is a course with **4-6 credits** and can comprise of Part I and Part II, spread over 1 or 2 semesters of final year, preferably during 7th and 8th semesters. DUGC may prescribe Mini Project as a requirement for the B. Tech Degree or in lieu of equivalent elective credits. The method of evaluation for major and minor projects shall be evolved by pertinent DUGC and appropriate double-letter grade is awarded which will be considered for SGPA and CGPA calculation	**The Senate resolved to approve the recommendations of BoS for modification in Section 3.2 Project (MP) of the Regulations specific to B.Tech Degree Programme of UG Curriculum to be effective from the academic year 2018-19.**
3.2 (b) Professional Ethics and Human Values: This is a 1 credit course, coordinated by Department of Humanities, Social Sciences and Management and the student is required to complete this course during 1st / 2nd semester	**3.2 (b) Professional Ethics and Human Values:** This is a 1 credit course, coordinated by School of Management and the student is required to complete this course during 1st / 2nd semester	**The Senate resolved to approve the recommendations of BoS for modification in Section 3.2 (b) Professional Ethics and Human Values: of the Regulations specific to B.Tech Degree Programme of UG Curriculum to be effective from the academic year 2018-19.**

ITEM No: 32-BOS - 3:   Modification in B. Tech Regulations- Degree Requirements

Resolution of the BOS		Resolution of the Senate
The BoS resolved to recommend the modification in the section 4 of the Regulations of B.Tech Degree Programme to be effective from the academic year 2018-19.		The Senate resolved to approve the recommendations of BoS for modification in Section 4: Degree Requirements of the Regulations specific to B.Tech Degree Programme of UG Curriculum to be effective from the academic year 2018-19.
Existing	**Proposed**	
4. DEGREE REQUIREMENTS: The degree requirements of a student for the B.Tech programme are as follows: (a) Institute Requirements: (i) Minimum Earned Credit Requirement for Degree is **170 to 180.** (ii) Satisfactory completion of all Mandatory Learning Courses (iii) Completion of the requirements on Co-curricular and/or Extra-curricular activities	4. DEGREE REQUIREMENTS: The degree requirements of a student for the B.Tech programme are as follows: (a) Institute Requirements: (i) Minimum Earned Credit Requirement for Degree is **150 to 160.** (ii) Satisfactory completion of all Mandatory Learning Courses (iii) Completion of the requirements on Co-curricular and/or Extra-curricular activities	

ITEM No: 32-BOS - 4:   Modification in B. Tech Regulations- Termination from the Programme

Resolution of the BOS		Resolution of the Senate
The BoS resolved to recommend the modification in the section 5 of the Regulations of B.Tech Degree Programme to be effective from the academic year 2018-19.		The Senate resolved to approve the recommendations of BoS for modification in Section 5: Termination from the Programme of the Regulations specific to B.Tech Degree Programme of UG Curriculum to be effective from the academic year 2018-19.
Existing	**Proposed**	
5.Termination From The Programme: A student shall be required to leave the Institute without the award of the Degree, under the following circumstances: (a) If a student fails to earn the minimum credit specified below: Check Point Credit Threshold	5.Termination From the Programme: A student shall be required to leave the Institute without the award of the Degree, under the following circumstances: (a) If a student fails to earn the minimum credit specified below: Check Point Credit Threshold	

End of FIRST year 15	End of FIRST year 15
End of SECOND year 40	End of SECOND year 40
End of THIRD year **65**	End of THIRD year **60**
End of FOURTH year **90**	End of FOURTH year **80**

ITEM No: 32-BOS - 5: Modification in B. Tech Regulations- Minor programme in B Tech

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the introduction of Minors programme in B Tech with following provisions to be effective from the academic year 2018-19: a) A student in a particular discipline can take additional specified courses totaling 15 to 20 credits in other disciplines. If he/she gets a GPA of 6.0 in these courses, then it will find a mention in their grade cards and degree certificate. b) A student can opt for Minors in Third Semester and register for Minor Courses from Third to Eighth Semesters. Students who have cleared all the courses of first and second semester in first attempt and have obtained a CGPA of 6.0 and above are eligible to register for minor courses. c) Allotment of minor will be based on merit list prepared on the basis of CGPA at the end of second semester. d) In case a student does not get a CGPA of 6.0 in minor courses, then these courses can be counted towards their elective credit requirement.	The Senate resolved to approve the recommendations of BoS with the following modifications: a) A student in a particular discipline can take additional specified courses totaling 15 to 20 credits in other disciplines. If he/she gets a GPA of **7.0** in these courses, then it will find a mention in their grade cards and degree certificate. b) A student can opt for Minors in Third Semester and register for Minor Courses from Third to Eighth Semesters. Students who have cleared all the courses of first and second semester in first attempt and have obtained a CGPA of **7.0** and above are eligible to register for minor courses. c) Allotment of minor will be based on merit list prepared on the basis of CGPA at the end of second semester. d) In case a student does not get a CGPA of **7.0** in minor courses, then these courses can be counted towards their elective credit requirement.

ITEM No: 32-BOS - 6: Modification in B. Tech Regulations- Honors programme in B. Tech

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the introduction of Honors programme in B Tech with following provisions to be effective from the academic year 2018-19: 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.	**The Senate resolved to approve the recommendations of BoS for the introduction of Honors programme in B.Tech to be effective from the academic year 2018-19**

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.	
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.	

ITEM No: 32-BOS - 7: Revised Curriculum for First year B.Tech

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the revision in First year B Tech Curriculum to be effective from the academic year 2018-19. The revised curriculum for the First year B.Tech courses is enclosed as *Annexure -1, P. No. 1*	**The Senate resolved to approve the recommendations of BoS for revision of curriculum for First year B Tech programme.**

ITEM No: 21-BOS - 8: Revised Curriculum for B.Tech programs

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the revision in Curriculum for B Tech programme to be effective from 2018 B. Tech admissions	
a) **Chemical Engineering (CH)** The BoS resolved to recommend the proposal of the DUGC of Department of Chemical Engineering for revision of curriculum structure and contents of B.Tech program in Chemical Engineering. The details are enclosed as *Annexure -2, P. No. 2-9.*	The Senate resolved to approve the recommendations of BoS the revision in B Tech Curriculum of Chemical Engineering from 2018-19 B Tech Admissions.
b) **Civil Engineering (CV)** The BoS resolved to recommend the proposal of the DUGC of Department of Civil Engineering for revision of curriculum structure and contents of B.Tech program in Civil Engineering. The details are enclosed as *Annexure - 3, P. No.10-23.*	The Senate resolved to approve the recommendations of BoS the revision in B Tech Curriculum of Civil Engineering from 2018-19 B Tech Admissions.

c) Computer Science and Engineering (CO) The BoS resolved to recommend the proposal of the DUGC of Department of Computer Science and Engineering for revision of curriculum structure and contents of B.Tech program in Computer Science and Engineering. The details are enclosed as *Annexure - 4, P. No.24-42.*	The Senate resolved to approve the recommendations of BoS the revision in B Tech Curriculum of Computer Science and Engineering from 2018-19 B Tech Admissions.
d) Electrical and Electronics Engineering (EE) The BoS resolved to recommend the proposal of the DUGC of Department of Electrical and Electronics Engineering for revision of curriculum structure and contents of B.Tech program in Electrical and Electronics Engineering. The details are enclosed as *Annexure -5, P. No.43-69.*	The Senate resolved to approve the recommendations of BoS the revision in B Tech Curriculum of Electrical and Electronics Engineering from 2018-19 B Tech Admissions.
e) Electronics and Communication Engineering (EC) The BoS resolved to recommend the proposal of the DUGC of Department of Electronics and Communication Engineering for revision of curriculum structure and contents of B.Tech program in Electronics and Communication Engineering. The details are enclosed as *Annexure - 6, P. No.70-94.*	The Senate resolved to approve the recommendations of BoS the revision in B Tech Curriculum of Electronics and Communication Engineering from 2018-19 B Tech Admissions.
f) Information Technology (IT) The BoS resolved to recommend the proposal of the DUGC of Department of Information Technology for revision of curriculum structure and contents of B.Tech program in Information Technology. The details are enclosed as *Annexure - 7, P. No.95-113*	The Senate resolved to approve the recommendations of BoS the revision in B Tech Curriculum of Information Technology from 2018-19 B Tech Admissions.
g) Mechanical Engineering (ME) The BoS resolved to recommend the proposal of the DUGC of Department of Mechanical Engineering for revision of curriculum structure & contents of B.Tech. Program in Mechanical Engineering. The details are enclosed as *Annexure - 8, P. No. 114-132.*	The Senate resolved to approve the recommendations of BoS the revision in B Tech Curriculum of Mechanical Engineering from 2018-19 B Tech Admissions.
h) Metallurgical and Materials Engineering (MT) The BoS resolved to recommend the proposal of the DUGC of Department of the Metallurgical and Materials Engineering for revision of curriculum structure and contents of B.Tech program in Metallurgical and Materials Engineering. The details are enclosed as *Annexure - 9, P. No.133-148.*	The Senate resolved to approve the recommendations of BoS the revision in B Tech Curriculum of Metallurgical and Materials Engineering from 2018-19 B Tech Admissions.
i) Mining Engineering (MN) The BoS resolved to recommend the proposal of the DUGC of Department of Mining Engineering for revision of curriculum structure and contents of B. Tech program in Mining Engineering. The details are enclosed as	The Senate resolved to approve the recommendations of BoS the revision in B Tech Curriculum of Mining Engineering from

Annexure -10, P. No. 149-151.	2018-19 B Tech Admissions.
j) Applied Mechanics & Hydraulics (AM) The BoS resolved to recommend the proposal of the DUGC of Department of Applied Mechanics & Hydraulics for revision of Curriculum and contents of Undergraduate courses. The details are enclosed as *Annexure - 11, P. No. 152-158.*	The Senate resolved to approve the recommendations of BoS the revision in Undergraduate Courses and contents of Department of Applied Mechanics and Hydraulics from 2018-19 B Tech Admissions.
k) Physics (PH) The BoS resolved to recommend the proposal of the DUGC of Department of Physics for revision of Curriculum of B.Tech programme. The details are enclosed as *Annexure - 12, P. No.159-161.*	The Senate resolved to approve the recommendations of BoS the revision in Undergraduate Courses and contents of Department of Physics from 2018-19 B Tech Admissions.
l) School of Management (HU) The BoS resolved to recommend the proposal of the DUGC of Department of the School of Management for **revision** of Curriculum of B. Tech programme. The details are enclosed as *Annexure – 13, P. No.162-163.*	The Senate resolved to approve the recommendations of BoS the revision in Undergraduate Courses and contents of School of Management from 2018-19 B Tech Admissions.
m) Mathematical & Computational Sciences (MACS) The DUGC of the Dept. of MACS has proposed the revised contents which is enclosed as Annexure - 14, P. No.164-169.	The Senate resolved to approve the recommendations of BoS the revision in Undergraduate Courses and contents of Mathematical and Computational Sciences from 2018-19 B Tech Admissions.
n) Chemistry (CH) The BoS resolved to recommend the proposal of the DUGC of Department of Chemistry for revision of Curriculum of B.Tech programme. The details are enclosed as *Annexure - 15, P. No.170-175.*	The Senate resolved to approve the recommendations of BoS the revision in Undergraduate Courses and contents of Department of Chemistry from 2018-19 B Tech Admissions.

ITEM No: 32-BOS - 9:   Modification in M. Tech Regulations- Admission

Resolution of the BOS	Resolution of the Senate

The BoS resolved to recommend the modification in the Section 2.1 of the Regulations of M.Tech Degree Programme to be effective from the academic year 2019-20.	The Senate resolved to approve the recommendations of BoS for modification in Section 2.1 Student Status of the Regulations specific to M.Tech Degree Programme of PG Curriculum to be effective from the academic year 2018-19.

Existing	Proposed
2.1 Student Status: There are six types of student status in the M.Tech. degree Programme: (a) Full-time student on GATE-Scholarship (b) Full-time sponsored student on QIP (AICTE) (c) Full-time sponsored student from Industry or other Organizations including Educational Institutions **(d) Full-time, non-sponsored, non-scholarship student** **(e) Internal Registrant - sponsored staff of NITK** **(f) Internal Registrant –Selected as teaching Assistant of NITK**	2.1 Student Status: There are three types of student status in the M.Tech. degree Programme: (a) Full-time student on GATE-Scholarship (b) Full-time sponsored student on QIP (AICTE) (c) Full-time sponsored student from Industry or other Organizations including Educational Institutions

ITEM No: 32-BOS - 10: Modification in M. Tech Regulations - Course Structure

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the modification in the Section 3 of the Regulations of M.Tech Degree Programme to be effective from the academic year 2018-19.	

Existing	Proposed	
3. COURSE STRUCTURE 3.1 The total course package for a M.Tech. Degree Programme will typically consist of the following components. a) Programme Core Courses Pc ≥ 20 Credits	**3. COURSE STRUCTURE** 3.1 The total course package for a M.Tech. Degree Programme will typically consist of the following components. a) Programme Core Courses Pc ≥ 20 Credits	The Senate resolved to approve the recommendations of BoS for modification in Section 3: Course Structure of the Regulations specific to M.Tech Degree Programme of PG Curriculum to be effective from the academic year 2018-19.

b) Elective Courses Ele ≥ 09 Credits c) Major Project MP = 20 Credits d) Mandatory Learning Courses MLC = 04 Credits 3.3 The Minimum Credit Requirement for the M.Tech. Degree is 60.	b) Elective Courses Ele ≥ 09 Credits c) Major Project MP = 8 - 12 Credits d) Mandatory Learning Courses MLC = 04 Credits 3.3 The Minimum Credit Requirement for the M.Tech. Degree is 50-55.	
3.4 *Major Project:* (a) The Major Project carries 20 credits and spreads over TWO semesters, normally during 3rd and 4th semesters (or as recommended by DPGC). The progress of the Project Work shall be monitored by the Project Guide. (h) The final evaluation is done by a Project Work Evaluation Committee (PWEC) constituted by the pertinent DPGC. There shall be an open seminar followed by a viva-voce examination as part of the final evaluation. After the final evaluation, appropriate double-letter grade is awarded, which will not however be considered for SGPA and CGPA calculations.	3.4 *Major Project:* (a) The Major Project carries 8-12 credits and spreads over TWO semesters, normally during 3rd and 4th semesters (or as recommended by DPGC). The progress of the Project Work shall be monitored by the Project Guide. (h) The final evaluation is done by a Project Work Evaluation Committee (PWEC) constituted by the pertinent DPGC. There shall be an open seminar followed by a viva-voce examination as part of the final evaluation. After the final evaluation, appropriate double-letter grade is awarded, which will be considered for SGPA and CGPA calculations.	The Senate resolved to approve the recommendations of BoS for modifications in Section 3.4 Major Project of Regulations specific to M Tech Programme of PG Curriculum from the academic year 2018-19.
3.5 Students with CGPA <5.50 in course work will be permitted to register for a maximum of two make-up courses per semester along with the project work, to enable them to achieve the minimum CGPA requirements . In case, the student desires to register for more than two make-up courses per semester then the Course Work duration shall be extended by one or more semesters	Deleted	The Senate resolved to approve the recommendations of BoS for modifications in Section 3.5 Major Project of Regulations specific to M Tech Programme of PG Curriculum from the academic year 2018-19.

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the revision in Curriculum for M Tech programme to be effective from 2018-19 M. Tech admissions	
(a) **Computer Science and Engineering (CSE)** The BoS resolved to recommend the proposal of the DPGC of the Department of Computer Science & Engineering for revision of curriculum for M.Tech in Computer Science & Engineering program. **(Annexure - 16, P. No.176-186)**	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Computer Science & Engineering program to be effective from 2018 M Tech Admissions.
(b) **Computer Science and Engineering (CSE-IS)** The BoS resolved to recommend the proposal of the DPGC of the Department of Computer Science & Engineering or revision of curriculum for M.Tech in Computer Science and Engineering - Information Security. **(Annexure - 17, P. No.187-196)**	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Computer Science & Engineering – Information Security program to be effective from 2018 M Tech Admissions.
(c) **Information Technology (IT)** The BoS resolved to recommend the proposal of the DPGC of the Department of Information Technology for revision of the curriculum for M.Tech in Information Technology. **(Annexure - 18, P. No.197-207)**	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Information Technology program to be effective from 2018 M Tech Admissions.
(d) **Industrial Biotechnology (IB)** The BoS resolved to **recommend** the proposal of the DPGC of the Department of Chemical Engineering for modification in the curriculum and syllabus for M.Tech Industrial Biotechnology to be implemented from the academic year 2018-19. **(Annexure - 19, P. No.208-213)**	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Industrial Biotechnology program to be effective from 2018 M Tech Admissions.
(e) **Chemical Plant Design (CPD)** The BoS resolved to **recommend** the proposal of the DPGC of the Department of Chemical Engineering for modification in the curriculum and syllabus for M.Tech Chemical Plant Design to be implemented from the academic year 2018-19 along with the change in name of the specialization.	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Chemical Plant Design program to be effective from 2018 M Tech Admissions.

(Annexure - 20, P. No.214-219)

(f)	**Industrial Pollution Control (IPC)** The BoS resolved to **recommend** the proposal of the DPGC of the Department of Chemical Engineering for modification in the curriculum and syllabus for M.Tech Industrial Pollution Control to be implemented from the academic year 2018-19 along with the change in name of the specialization. (Annexure - 21, P. No.220-225)	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Industrial Pollution Control program to be effective from 2018 M Tech Admissions.
(g)	**Materials Engineering (ML)** The BoS resolved to recommend the proposal of the DPGC of the Department of Metallurgical & Materials Engineering for modification in the curriculum and syllabus for M.Tech Materials Engineering. (Annexure - 22, P. No.226)	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Materials Engineering program to be effective from 2018 M Tech Admissions.
(h)	**Process Metallurgy(PM)** The BoS resolved to recommend the proposal of the DPGC of the Department of Metallurgical & Materials Engineering for modification in the curriculum and syllabus for M.Tech Process Metallurgy (Annexure - 23, P. No.227)	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Process Metallurgy program to be effective from 2018 M Tech Admissions.
(i)	**Nanotechnology (NT)** The BoS resolved to recommend the proposal of the DPGC of the Department of Metallurgical & Materials Engineering for modification in the curriculum and syllabus for M.Tech Nanotechnology. (Annexure - 24, P. No.228-242)	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Nanotechnology program to be effective from 2018 M Tech Admissions.
(j)	**Computational Mathematics (CMA)** The BoS resolved to recommend the proposal of the DPGC of the Department of Mathematical and Computational Sciences for modification in the curriculum and syllabus for M.Tech Computational Mathematics. (Annexure - 25, P. No.243-248)	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Computational Mathematics program to be effective from 2018 M Tech Admissions.
(k)	**VLSI Design (VL)** The BoS resolved to recommend the proposal of the DPGC of the Department of Electronics & Communication Engineering for modification in the curriculum and syllabus for M.Tech VLSI Design (Annexure -26, P. No.249)	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in VLSI Design program to be effective from 2018 M Tech Admissions.
(l)	**Communication Engineering (CE)**	

The BoS resolved to recommend the proposal of the DPGC of the Department of Electronics & Communication Engineering for modification in the curriculum and syllabus for M.Tech Communication Engineering. **(Annexure - 27, P. No.250-259)**	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Communication Engineering program to be effective from 2018 M Tech Admissions.

(m) Power and Energy Systems

The BoS resolved to recommend the proposal of the DPGC of the Department of Electrical and Electronics Engineering for modification in the curriculum and syllabus for M.Tech Power and Energy Systems. **(Annexure - 28, P. No.260-272)**	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Power and Energy Systems program to be effective from 2018 M Tech Admissions.

(n) Manufacturing Engineering

The BoS resolved to recommend the proposal of the DPGC of the Department of Mechanical Engineering for modification in the curriculum and syllabus for M.Tech Manufacturing Engineering. **(Annexure - 29, P. No.273, 279-284.)**	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech Manufacturing Engineering program to be effective from 2018 M Tech Admissions.

(o) Design & Precision Engineering

The BoS resolved to recommend the proposal of the DPGC of the Department of Mechanical Engineering for modification in the curriculum and syllabus for M.Tech Design and Precision Engineering. **(Annexure -30, P. No. 274, 284-290)**	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Design and Precision Engineering program to be effective from 2018 M Tech Admissions.

(p) Mechatronics Engineering

The BoS resolved to recommend the proposal of the DPGC of the Department of Mechanical Engineering for modification in the curriculum and syllabus for M.Tech Mechatronics Engineering. **(Annexure - 31, P. No.275, 290-294)**	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech Mechatronics Engineering program to be effective from 2018 M Tech Admissions.

(q) Thermal Engineering

The BoS resolved to recommend the proposal of the DPGC of the Department of Mechanical Engineering for modification in the curriculum and syllabus for M.Tech Thermal Engineering. **(Annexure - 32, P. No. 276-278, 294-304.)**	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Thermal Engineering program to be effective from 2018 M Tech Admissions.

(r) Construction Technology and Management

The BoS resolved to recommend the proposal of the DPGC of the Department of Civil Engineering for modification in the curriculum and syllabus for M.Tech construction Technology and Management	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Construction Technology and Management program

(Annexure -33, P. No. 305-311)		to be effective from 2018 M Tech Admissions.
(s)	**Environment Engineering**	
	The BoS resolved to recommend the proposal of the DPGC of the Department of Civil Engineering for modification in the curriculum and syllabus for M.Tech Environment Engineering. (Annexure -34, P. No.312-316.)	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Environmental Engineering program to be effective from 2018 M Tech Admissions.
(t)	**Geotechnical Engineering**	
	The BoS resolved to recommend the proposal of the DPGC of the Department of Civil Engineering for modification in the curriculum and syllabus for M.Tech Geotechnical Engineering. (Annexure - 35, P. No. 317-320).	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Geotechnical Engineering program to be effective from 2018 M Tech Admissions.
(u)	**Structural Engineering**	
	The BoS resolved to recommend the proposal of the DPGC of the Department of Civil Engineering for modification in the curriculum and syllabus for M.Tech Structural Engineering. (Annexure - 36, P. No. 321-325)	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Structural Engineering program to be effective from 2018 M Tech Admissions.
(v)	**Transportation Engineering**	
	The BoS resolved to recommend the proposal of the DPGC of the Department of Civil Engineering for modification in the curriculum and syllabus for M.Tech Transportation Engineering. (Annexure - 37, P. No. 326-349)	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Transportation Engineering program to be effective from 2018 M Tech Admissions.
(w)	**Marine Structures**	
	The BoS resolved to recommend the proposal of the DPGC of the Department of Applied Mechanics & Hydraulics for modification in the curriculum and syllabus for M.Tech (Marine Structures). (Annexure -38, P. No.331, 334-341)	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Marine Structure program to be effective from 2018 M Tech Admissions.
(x)	**Water Resources Engineering & Management**	
	The BoS resolved to recommend the proposal of the DPGC of the Department of Applied Mechanics & Hydraulics for modification in the curriculum and syllabus for M.Tech (Water Resources Engineering and Management). (Annexure -39, P. No.332, 342-345)	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Water Resources Engineering and Management program to be effective from 2018 M Tech Admissions.
(y)	**Remote Sensing & GIS**	

The BoS resolved to recommend the proposal of the DPGC of the Department of Applied Mechanics & Hydraulics for modification in the curriculum and syllabus for M.Tech (Remote Sensing and GIS). **(Annexure -40, P. No. 333, 346-349)**	The Senate resolved to approve the recommendations of BoS for revision in Curriculum for M.Tech in Remote Sensing and GIS program to be effective from 2018 M Tech Admissions.

ITEM No: 32-BOS - 13: Modification in M. Tech (Research) Regulations- residential requirements - *To be effective from Academic year 2018-2019*

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the modification in Residential requirements of the Regulations of M.Tech (Research) Degree Programme to be effective from the academic year 2018-19.	The Senate resolved to approve the recommendations of BoS for modifications in Section 3.3 of the Regulations of M.Tech. (Research) Programme of PG Curriculum to be effective from the academic year 2018-19.

Existing	Proposed
3.3 In case of external registrants, a minimum of one semester (preferably first semester) residential requirement to be completed during the completion of credit requirements. However the duration and number of visits to the institute after the course completion shall be decided by the research guide.	3.3 In case of external registrants, residential requirement may be waived. They are expected to complete their course work by opting for (pre-approved by DPGC) certified courses. For these courses, evaluation has to be done by departmental faculty and appropriate grade awarded. However the duration and number of visits to the institute after the course completion shall be decided by the research guide.

ITEM No: 32-BOS - 14: Modification in M.Sc Regulations-Admission *To be effective from Academic year 2018-2019*

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the modification in section 2.3 of the Regulations specific to M.Sc. Degree Programme to be effective from the academic year 2018-19.	The Senate resolved to approve the recommendations of BoS for modification in Section 2.4 of Regulations specific to M.Sc. Degree programme of PG Curriculum to be effective from the academic year 2018-19

Existing	Proposed

2.4 The admissions will be based on the performance in the Entrance Test and the performance in the qualifying examination.	To be deleted	

ITEM No: 32-BOS-15:   **Modification in M.Sc Regulations-Course Structure** *To be effective from Academic year 2018-2019*

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the modification in Section 3 of the Regulations specific to M.Sc. Degree Programme to be effective from the academic year 2018-19.	The Senate resolved to approve the recommendations of BoS for modification in Section 3.1 and Section 3.3 of Regulations specific to M.Sc. Degree programme of PG Curriculum to be effective from the academic year 2018-19

Existing	Proposed
COURSE STRUCTURE:	**COURSE STRUCTURE:**
3.1 The total course credit requirement for the award of M. Sc. Degree will typically consist of the following components.	3.1 The total course credit requirement for the award of M. Sc. Degree will typically consist of the following components.
a) Core Courses $\geq$ 40 Credits	a) Core Courses $\geq$ 40 Credits
b) Elective Courses $\geq$ 12 Credits	b) Elective Courses $\geq$ 12 Credits
c) Mandatory Learning Courses (Seminar) $\geq$ 03 Credits	c) Mandatory Learning Courses (Seminar) $\geq$ 03 Credits
d) M.Sc. Project $\geq$ **06 Credits**	d) M.Sc. Project **08 Credits**
3.3 The Minimum Credit Requirement for the **M.Sc. Degree is 90**	3.3 The Minimum Credit Requirement for the **M.Sc. Degree is 80**

Item No. 32- BOS -16:   **Revised Curriculum for M.Sc programs:**
To be effective from 2018-19 M.Sc admissions

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the proposal of DPGC of the Department of Physics and Chemistry for revision in Curriculum for M.Sc. Degree Programme to be effective from the academic year 2018-19. (a) **Physics (PH)** The BoS resolved to recommend the proposal of the DPGC of the	The Senate resolved to approve the recommendations of BoS for modification in revision in curriculum specific to M.Sc. Degree programme to be effective from the academic year 2018-19

	Department of Physics for the revision of M.Sc (Physics) Curriculum. **(Annexure - 42, P. No. 350-357)**
(b)	**Chemistry (CY)** The BoS resolved to recommend the proposal of the DPGC of the Department of Chemistry for the revision of M.Sc (Chemistry) Curriculum. **(Annexure - 43, P. No.358-369)**

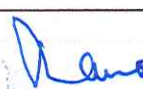**ITEM No: 32-BOS - 17:**   Modification in MCA Regulations-Course Structure

To be effective from Academic year 2018-2019

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the modification in **Section 2** of the Regulations specific to MCA. Degree Programme to be effective from the academic year 2018-19.	The Senate resolved to approve the recommendations of BoS for modification in Section 2.1 and 2.3 of Regulations specific to MCA Degree programme of PG Curriculum to be effective from the academic year 2018-19

Existing	Proposed
COURSE STRUCTURE:	**COURSE STRUCTURE:**
2.1 The total course package for a M.C.A. Programme will typically consist of the following components.	2.1 The total course package for a M.C.A. Programme will typically consist of the following components.
(a) Programme Core Courses Pc $\geq$ 60 Credits	(a) Programme Core Courses Pc $\geq$ 60 Credits
	(b) Elective Courses Ele $\geq$ 24 Credits
(b) Elective Courses Ele $\geq$ 24 Credits	(c) Major Project MP = **10** Credits
(c) Major Project MP = **20** Credits	(d) Mandatory Learning Courses MLC = 04 Credits
(d) Mandatory Learning Courses MLC = 04 Credits	
2.3 The Minimum Credit Requirement for the M.C.A Degree is **120**.	2.3 The Minimum Credit Requirement for the M.C.A Degree is **100-105**.

Item No. 32- BOS -18:   Revised Curriculum for MCA programs

To be effective from 2018-19 MCA admissions

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the proposal of the DPGC of the Department of Mathematical and Computational Mathematics for revision of curriculum for the MCA programme. *(Annexure - 44, P. No.370-381)*	The Senate resolved to approve the recommendations of BoS for modification in revision in curriculum specific to MCA Degree

	programme to be effective from the academic year 2018-19

Item No. 32- BOS -19:   **Revised Curriculum for MBA programs**

To be effective from 2018-19 MBA admissions

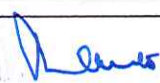| Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the proposal of the DPGC of the School of Management for revision of curriculum for the MBA programme. *(Annexure - 45, P. No.382-384)*	The Senate resolved to approve the recommendations of BoS for modification in revision in curriculum specific to MBA Degree programme to be effective from the academic year 2018-19

ITEM No: 32-BOS - 20:   **Modification in PhD Regulations-Admissions**

To be effective from Academic year 2019-2020

Resolution of the BOS			Resolution of the Senate
The BoS resolved to recommend the modification in the Section 2 of the Regulations of PhD Degree Programme to be effective from the academic year 2019-20			The Senate resolved to approve the recommendations of BoS for modification in revision in Admission regulations to PhD Degree programme to be effective from the academic year 2019-20
Existing	**Proposed**		
2. ADMISSION: 2.1 Student Status: There are five types of student status in the Ph.D Degree Programme: (a) Full-time student on Institute Scholarship (b) Full-time sponsored student on QIP (AICTE) (c) Full-time/External Registrant - sponsored student from Industry or other Organizations including Educational Institutions (d) Full-time/External Registrant- non-sponsored, non-scholarship student	2.1 Student Status: There are four types of student status in the Ph.D Degree Programme: a) Full-time student on Institute Scholarship (b) Full-time sponsored student on QIP (AICTE) (c) Full-time/External Registrant - sponsored student from Industry or other Organizations including Educational Institutions (d) Internal Registrant - sponsored Institute or Project staff of NITK		

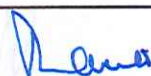|	
(e) Internal Registrant - sponsored Institute or Project staff of NITK	
v. A non-sponsored non-scholarship (self-financed) student of type (d) will not receive any financial assistance from the Institute.	To be deleted
2.3 As per UGC norms, students of type (a) must have passed GATE/ UGC-CSIR exam/ DAE- JEST/ or an exam conducted by the Institute to be admitted to Ph.D. Programme.	2.3 Students of type (a) must have passed GATE/ UGC-CSIR exam/ DAE- JEST to be admitted to Ph.D. Programme.

ITEM No: 32-BOS - 21: **Modification in PhD Regulations-Programme Structure**

To be effective from Academic year 2018-2019

Resolution of the BOS		Resolution of the Senate
The BoS resolved to recommend the modifications in the Regulations of PhD Degree Programme to be effective from the academic year 2018-19.		The Senate resolved to approve the recommendations of BoS for modification in the Section 3.1: programme structure of Regulations specific to PhD Degree programme of PG Curriculum to be effective from the academic year 2018-19
Existing	**Proposed**	
3.1 The Ph.D. Degree Programme Structure consists of the following stages: (i) Ph.D. Course Work and Evaluation; (ii) MLC: HU800 Research methodology (iii) Research Proposal Submission and Assessment; (iv) Research Progress Assessment; (v) Pre-Synopsis Seminar and Synopsis Submission; (vi) Ph.D. Thesis Submission and Assessment.	3.1 The Ph.D. Degree Programme Structure consists of the following stages: (i) Ph.D. Course Work and Evaluation; (ii) MLC: HU800 Research methodology (iii) Comprehensive Examination (iv) Research Proposal Submission and Assessment; (v) Research Progress Assessment; (vi) Pre-Synopsis Seminar and Synopsis Submission; (vii) Ph.D. Thesis Submission and Assessment.	
The course work must be completed within the first TWO years, with a **minimum CGPA of 5.50.**	The Course work must be completed within the first year of joining the program with a **minimum CGPA of 6.0**	

A minimum of one semester (preferably first semester) residential requirement is to be completed by all the external registrants during the completion of course credit requirements. However, the duration and the number of visits to the Institute after the course completion shall be decided by the Research Guide.	In the case of Full time/External registrant sponsored student from the industry or other organizations, the minimum of one semester residential requirement may be waived by DRPC, on case to case basis. These students may be allowed to do pre-approved certified MOOCs and also a self-study course, towards 12 credits. Examination will be conducted for such certified courses to award grades, by the department. They also need to do a certified Research methodology course.	
Nil	**5.2 Comprehensive Exam** Comprehensive exam will be conducted **once in a** semester and a student registered for Ph.D should qualify in this exam within one and half years for the date of registration. A student is deemed to have qualified in this exam if he/she obtains 60% marks in the exam and satisfactorily completes the oral exam. If a student performs non-satisfactorily in the oral exam, he/she needs to retake only the oral exam. A maximum of two attempts to qualify in the comprehensive exam will be given. If a student does not qualify in the comprehensive exam even after two attempts, his/her registration will be terminated. The question paper for comprehensive exam would be set by the respective DRPC	The Senate resolved to approve the recommendations of BoS for modification in the Section 5.2 of Regulations specific to PhD Degree programme of PG Curriculum to be effective from the academic year 2018-19
		The Senate resolved to approve the recommendations of BoS for modification in the Section 5.2:

5.2 Research Proposal Submission and Assessment Every PhD student is required to submit his research proposal in the prescribed format, within 18 months after joining for the program. Chairman Senate is authorized to condone the delay upto 2 years. Beyond 2 years, approval by Senate is required up to two and a half years. If the delay is beyond two and a half years the registration is liable to be terminated. The Ph.D Research proposal must contain details including literature survey, problem identification, state of the art technology, plan of Research work, etc. The RPAC will assess the proposal through an open seminar and communicate the recommendation along with detailed report for approval or otherwise to the Dean (A) through DRPC.	5.3 Research Proposal Submission and Assessment Every PhD student is required to submit his research proposal in the prescribed format, within 24 months after joining the program. Extension by 6 months will be given to those students who do not qualify in the comprehensive exam in the first attempt. In case a research proposal is not submitted with in two and half years the registration will be terminated.	Research Proposal Submission of Regulations specific to PhD Degree programme of PG Curriculum to be effective from the academic year 2018-19
5.3.3 Prior to Pre-synopsis seminar, the scholar is required to give at least TWO satisfactory Research Progress Assessment Seminars on the topic of his research, and have at least one paper published or accepted for publications preferably in a refereed journal or in a conference proceedings.	5.3.3 Prior to Pre-synopsis seminar, the scholar is required to give at least TWO satisfactory Research Progress Assessment Seminars on the topic of his research, and have at least one paper published or accepted for publications in a refereed Journal (Scopus/SCI/ESCI/SSCI /AHCI).	The Senate resolved to approve the recommendations of BoS for modification in the Section 5.3.3 of Regulations specific to PhD Degree programme of PG Curriculum to be effective from the academic year 2018-19
5.4.4 c. Details of the courses studied (for all categories of research scholars) **and also certificates with regard to the**	5.4.4 c. Details of the courses studied (for all categories of research scholars) (Residential requirement Clause	The Senate resolved to approve the recommendations of BoS for modification in the Section 5.4.4 (c) of Regulations specific to PhD Degree

residential clause from the guide and Head of the Department (for external registrants).	Removed)	programme of PG Curriculum to be effective from the academic year 2018-19
5.5.1 Prior to the thesis submission, the scholar should have preferably two but at least one paper published or accepted for publication in a refereed journal.	5.5.1. Prior to the thesis submission, the scholar should have preferably two but at least one paper published or accepted for publication in a refereed journal (Scopus/SCI/ESCI/SSCI/AHCI)	The Senate resolved to approve the recommendations of BoS for modification in the Section 5.5.1 of Regulations specific to PhD Degree programme of PG Curriculum to be effective from the academic year 2018-19

Item No. 32 – BOS-22:   **Revised Curriculum for PhD programme**

To be effective from 2018-19 PhD admissions

Resolution of the BOS	Resolution of the Senate
(a) **Computer Science and Engineering (CSE)** The Department of Computer Science and Engineering has proposed revised 900 level courses for Ph.D students. (Annexure - 46, P. No.385-391). **(b)** **Mechanical Engineering** The Department of Mechanical Engineering has proposed revised 900 level courses for Ph.D students. **(c)** **Mathematical and Computational Sciences** The Department of Computer Science and Engineering has proposed revised 900 level courses for Ph.D students. **(d)** **Information Technology** The Department of Information Technology has proposed revised 900 level courses for Ph.D students. (Annexure 49, P. No.402-410). **(e)** **Mining Engineering** The Department of Mining Engineering has proposed revised 900 level courses for Ph.D students. **(f)** **Electrical & Electronics Engineering :**	The Senate resolved to approve the recommendations of BoS for modification in revision in curriculum specific to 900 Level Courses for PhD Degree programme of all the Departments to be effective from the academic year 2018-19

The Department of Electrical & Electronics Engineering has proposed revised 900 level courses for Ph.D students.

(g)   Electronics & Communication Engineering:

The Department of Electronics & Communication Engineering has proposed revised 900 level courses for Ph.D students.

(h) Metallurgical and Materials Engineering

The Department of Metallurgical and Materials Engineering has proposed revised 900 level courses for Ph.D students.

ITEM No: 32-BOS - 23:   Conversion of Academic Programme - M.Tech to Dual Degree (M.Tech + PhD) programme

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend that M.Tech students who have secured more than 8.5 CGPA after the completion of Ist year, can opt to convert to Ph.D. They should have joined the M.Tech program with valid GATE score. The procedure laid out for Ph.D admissions will be applicable for conversion from M.Tech to Ph.D. The students who convert from M.Tech to Ph.D will be awarded M.Tech degree on submission of Ph.D Synopsis. Course work of the PhD programme can be waived in this case. However, these students have to complete the Research Methodology course. In case of Termination of a student from the PhD programme, he / she will be evaluated for the work done till then, to award the M Tech degree.	**The Senate resolved to approve the recommendations of BoS for conversion of M Tech programme to MTech-PhD Dual Degree Programme from the academic year 2019-20.**

ITEM No: 32-BOS - 24:   Conversion of Academic Programme - M.Sc. to Dual Degree (M.Sc. + PhD) programme

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend that M.Sc. students who have scored more than 8.5 CGPA after Ist year, can opt to convert to Ph.D. They should have joined the M.Sc. program with valid GATE / NET score. The procedure laid out for Ph.D admissions will be applicable for conversion from MSc to Ph.D. The students who convert from MSc to Ph.D will be awarded M.Sc. degree on submission of Ph.D Synopsis. Course work of the PhD programme can be waived in this case. However, these students have to complete the Research Methodology course. In case of Termination of a student from the PhD programme, he / she will be evaluated	**The Senate resolved to approve the recommendations of BoS for conversion of MSc programme to MSc-PhD Dual Degree Programme from the academic year 2019-20 with following modifications :** M.Sc. students who have scored more than 8.5 CGPA after Ist year, can opt to convert to Ph.D. They should have joined the M.Sc. program with valid GATE / NET score. The procedure laid out for Ph.D admissions will be applicable for conversion from MSc to Ph.D. The students who convert from MSc to Ph.D will be awarded

for the work done till then, to award the MSc degree.	M.Sc. degree on submission of Ph.D Synopsis. Course work of the PhD programme can be waived in this case. **However, these students have to complete the Research Methodology course in addition to the second year courses of the MSc Programme.** In case of Termination of a student from the PhD programme, he / she will be evaluated for the work done till then, to award the MSc degree

ITEM No: 32-BOS - 25:   Introduction of new PG Programme - proposal of Department Electronics and Communication Engineering

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the proposal of Department of Electronics and Communication Engineering for introduction of new PG programme entitled "Signal Processing and Machine Learning (SPMIL)" from the academic year 2019-20 with an intake of 29 students. The details are enclosed as **Annexure 53, P. No. 419-436.**	**The Senate resolved to approve the recommendations of BoS for introduction of new PG programme entitled "Signal Processing and Machine Learning (SPMIL)" from the academic year 2019-20 with an intake of 29 students.**

ITEM No: 32-BOS - 26:   Change of name of M.Tech Programme (Communication Engineering) - Proposal of Department of Electronics and Communication Engg.

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the proposal of Department of Electronics and Communication Engineering for Change of name of M Tech Programme (Communication Engineering) to M Tech in Communication Engineering and Networks from the academic year 2019-20. The revised curriculum are enclosed as **Annexure 54, P. No.437.**	**The Senate resolved to approve the recommendations of BoS for modification in name of M.Tech. programme M Tech Programme (Communication Engineering) to M Tech in Communication Engineering and Networks from the academic year 2019-20.**

ITEM No: 32-BOS - 27:   Change of name of M Tech Programme - Proposal of Department of Chemical Engineering

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the proposal of Department of Chemical Engineering to change the name of following M Tech Programme (from the academic year 2019-20 onwards	The Senate resolved to approve the recommendations of BoS for revision in curriculum and modification in name of following M.Tech. programmes from the academic year 2019-20 :

| a. M Tech (Chemical Plant Design) to M.Tech. (Chemical Engineering)
 b. M Tech (Industrial Pollution Control) to M.Tech. (Environmental Sciences and Technology)

 The revised curriculum are enclosed as **Annexure 55- , P. No.438-445.** | a. M Tech (Chemical Plant Design) to M.Tech. (Chemical Engineering)
 b. M Tech (Industrial Pollution Control) to M.Tech. (Environmental Sciences and Technology) |

ITEM No: 32-BOS - 28:   Change of name of M Tech Programme - Proposal of Department of Mechanical Engineering

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the proposal of Department of Mechanical Engineering to change the name of M Tech (Design and Precision Engineering) to M.Tech. (Mechanical Design) from the academic year 2019-20. The proposal of change of name of M Tech (Mechatronics) to M.Tech. (Mechatronics and Automation) has been withdrawn by the Department of Mechanical Engineering. The details are enclosed as **Annexure - 56, P. No.446-447**.	The Senate resolved to approve the recommendations of BoS for revised curriculum and modification in name of M Tech (Design and Precision Engineering) to M.Tech. (Mechanical Design) from the academic year 2019-20.

ITEM No: 32-BOS - 29:   Reduction in annual Intake for admission to MCA programme – proposal of Department of Mathematical and Computational Sciences

Resolution of the BOS	Resolution of the Senate
The BoS resolved to recommend the proposal of the Department of Mathematical and Computational Sciences for reduction of the annual intake for admission to MCA programme from existing 92 to 46 from the academic year 2019-20 onwards. The details are enclosed as **Annexure - 57, P. No.448-452**.	The Senate resolved to approve the proposal of the Department of Mathematical and Computational Sciences for reduction of the annual intake for admission to MCA programme from existing 92 to 46 from the academic year 2019-20 onwards.

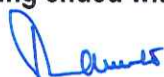**Item No. 32 – BOS-30:**   Inclusion of External Additional Guides:

Resolution of the BOS	Resolution of the Senate
a) **Department of Mechanical Engineering:** i. The BoS resolved to approve that Dr. C. Sujatha, Professor, Dept. of Mechanical Engg., IITM, Chennai, **be considered** for inclusion as an Additional Research Guide for Mr. Tak Radhe Shyam Saini (Reg. No. 177158) in the Dept. of Mechanical Engineering ii. The BoS resolved that Dr. Ch VSN Reddi, **not to be** considered for inclusion as an Additional Research Guide for Mr. Naidu Balireddy S. (Reg. No. 177098) in the Dept. of Mechanical Engineering.	The Senate noted the resolutions of BoS

iii. The BoS resolved that Dr. Ch. VSN Reddi, **not to be** considered for inclusion as an Additional Research Guide for Mr. S. R. Vishwanath Mantha (Reg. No. 177102) in the Dept. of Mechanical Engineering.

b) **Department of Electronics & Communication Engineering:**

i. The BoS resolved that Dr. Jyh Cheng Chen, Distinguished Professor, Dept. of Biomedical Imaging & Radiological Sciences, be considered for inclusion as an Additional Research Guide for Mr. D. Suryachand Gopavajhula (Reg. No. 177032) in the Dept. of Electronics & Communication Engineering.

ii. The BoS resolved that Dr. P. H. Rao, Scientist, SAMEER – Centre for Electromagnetics, Chennai, **be considered** for inclusion as an Additional Research Guide for Mr. B. Anudeep (Reg. No. 177099) in the Dept. of Electronics & Communication Engineering.

c) **Department of Metallurgical & Materials Engineering:**

The BoS resolved that Dr. D. Manjini, Associate Vice President, JSW Bellary be considered for inclusion as an Additional Guide for Mr. D. Satish Kumar (Reg. No. 177046) in the Dept. of Metallurgical & Materials Engineering.

d) **Department of Mathematical & Computational Sciences**

The BoS resolved that Dr. Balaji R. Pricipal Technical Officer,   Computer Networks and Internet Engineering **be considered** for inclusion as an Additional Guide for Mr. Sanjay (Reg. No. 177039) in the Dept. of Mathematical & Computational Sciences
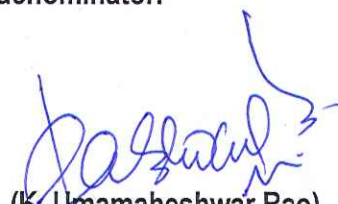
Any Other Items:

1. The Senate resolved to approve the guidelines formulated by Senate Sub-Committee for maintenance of academic Integrity and prevention of plagiarism for the Institute.

2. The Senate resolved to approve the modifications in Section G5.13 : Evaluation of Performance of UG Curriculum as follows:
   "There is no equivalence between the CGPA Scale and Percentage. However CGPA ≥ 6.0 can be considered as equivalent to first class and 5.0 ≤ CGPA < 6.0 can be considered as equivalent to Second Class. Notionally, CGPA may be multiplied by a factor of 10 to obtain numerical percentage"

3. The Senate resolved to approve that a student who has obtained FA or FF grade in an elective course, he / she may either re-appear the same course or register for any other elective course. In either condition, the CGPA computations will not once again include the course credits for the failed elective courses in the denominator.

Meeting ended with vote of thanks to the Chair.

(K. Ravindranath)
Secretary-Senate, NITK

(K. Umamaheshwar Rao)
Chairman-Senate, NITK