



**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA
SURATHKAL**

MINUTES
OF
THIRTY SECOND MEETING OF
BOARD OF STUDIES

Date : 08.06.2018 (Friday)
Time : 02.30 P.M.
Venue : Board Room,
N.I.T.K - Surathkal,
Srinivasnagar, Mangalore
PIN - 575 025.

Minutes of the Thirty Second combined Board of Studies (UG, PG & Research) Meeting held on Friday, 08th June, 2018 in the Board Room, NITK, Surathkal.

MEMBERS PRESENT

1)	Dr. M. B. Saidutta	...	Chairman
2)	Dr. S. M. Hegde	...	Member
3)	Dr. Prasad Krishna	...	Member
4)	Dr. Ananthanarayana V. S.	...	Member
5)	Dr. A. Mahesha	...	Member
6)	Dr. Varghese George	...	Member
7)	Dr. M. Aruna	...	Representative of HOD
8)	Dr. Venkatesa Perumal	...	Member
9)	Dr. Alwyn Roshan Pais	...	Member
10)	Dr. T. Laxminidhi	...	Member
11)	Dr. Hari Mahalingam.	...	Member
12)	Dr. S. M. Murigendrappa	...	Member
13)	Dr. Ravi Kiran Kadoli	...	Member
14)	Dr. Narendranath S.	...	Member
15)	Dr. Anandhan Srinivasan	...	Member
16)	Dr. Ram Mohan Reddy	...	Member
17)	Dr. D. Krishna Bhat	...	Member
18)	Dr. K. B. Kiran	...	Member
19)	Dr. B. R. Shankar	...	Member
20)	Dr. M. N. Satyanarayanan	...	Member
21)	Mr. K. Ravindranath	...	Member
22)	Ms. Priyanka Dattanand Amadalli	...	Member
23)	Mr. Kamlabh Kumar Singh	...	Secretary

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**Minutes of Thirty Second (32nd) BOS meeting held on
08.06.2018 (Friday)**

The Chairman (BOS) and Dean (Academic) chaired the meeting and welcomed all the members to the **Thirty Second BOS meeting**.

The minutes of **Thirty First BOS** meeting was approved as there were no comments received from the members.

ITEM No: 32-BOS - 1:

Modification in B. Tech Regulations- Admission

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.

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.

**For Senate
Approval**

ITEM No: 32-BOS - 2:

Modification in B. Tech Regulations - Course Structure

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)

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)

**For
Senate
Approval**

- (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 ≥ 60 Credits
 (c) Elective Courses ELE ≥ 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 Specific Elective (PSE) by registering for courses	3.2 The students have the option to register for certified MOOC courses (NPTEL/SWAYAM etc.).

**For
Senate
Approval**

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		For Senate Approval
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		

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

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.

For Senate approval

Existing	Proposed	
4. DEGREE REQUIREMENTS: The degree requirements of a student for the B.Tech programme are as follows:	4. DEGREE REQUIREMENTS: The degree requirements of a student for the B.Tech programme are as follows:	For Senate approval

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

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.

**For
Senate
Approval**

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

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

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 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

**For
Senate
Approval**

<p>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.</p> <p>c) Allotment of minor will be based on merit list prepared on the basis of CGPA at the end of second semester.</p> <p>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.</p>	
<p>ITEM No: 32-BOS - 6:</p> <p>Modification in B. Tech Regulations- Honors programme in B. Tech</p> <p>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:</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 style="text-align: center;">For Senate Approval</p>
<p>ITEM No: 32-BOS - 7:</p> <p>Revised Curriculum for First year B.Tech</p> <p>The BoS resolved to recommend the revision in First year B Tech Curriculum to be effective from the academic year 2018-19.</p> <p>In first Semester of B Tech programme (Physics Cycle), ME will have a program core of 3 credits instead of Elements of mechanical Engineering. In First Semester of B.Tech programme, (Chemistry cycle) the following branches viz. EE, EC, IT will have a program core of 4 credits instead of Elements of electrical Engineering, Elements of Electronics Engineering.</p> <p>The revised curriculum for the First year B.Tech courses is enclosed as Annexure -1, P. No. 1</p>	<p style="text-align: center;">For Senate approval</p>

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

The BoS resolved to recommend the revision in Curriculum for B.Tech programme to be effective from 2018 B.Tech admissions

**For
Senate
approval**

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.**

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.**

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.**

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.**

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.**

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**

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.**

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| <p>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.</p> <p>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 Annexure -10, P. No. 149-151.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> | |
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ITEM No: 32-BOS - 9:**Modification in M. Tech Regulations- Admission**

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.

**For
Senate
approval**

Existing	Proposed	
2. ADMISSION: 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**

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	For Senate approval
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 \geq 20 Credits b) Elective Courses Ele \geq 09Credits 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.	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 \geq 20 Credits b) Elective Courses Ele \geq 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.	

<p>3.4 Major Project:</p> <p>(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.</p> <p>(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</p>	<p>3.4 Major Project:</p> <p>(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.</p> <p>(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.</p>	
<p>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.</p>	<p>Deleted</p>	

ITEM No: 32-BOS - 11:**Modification in M. Tech Regulations - Degree Requirements**

The BoS resolved to recommend the modification in the Section 4 of the Regulations of M.Tech Degree Programme to be effective from the academic year 2018-19.

**For
Senate
approval**

Existing	Proposed
<p>4. DEGREE REQUIREMENTS:</p> <p>4.1 The degree requirements of a student for the M. Tech. Degree programme are as follows:</p> <p>(a) Institute Requirements:</p> <p>(i) Minimum Earned Credit Requirement for Degree is 60.</p>	<p>4. DEGREE REQUIREMENTS:</p> <p>4.1 The degree requirements of a student for the M. Tech. Degree programme are as follows:</p> <p>(a) Institute Requirements:</p> <p>(i) Minimum Earned Credit Requirement for Degree is 50 - 55.</p>

(ii) Securing a CGPA of at least 5.50 in the Course Work. (iii) Satisfactory completion of all Mandatory Learning Courses.	(ii) Securing a CGPA of at least 5.50 in the Course Work. (iii) Satisfactory completion of all Mandatory Learning Courses.	
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: (i) Full-time student Check Point Credit Threshold End of FIRST year 20 (ii) Part-time student Check Point Credit Threshold End of FIRST year 10 End of SECOND year 20	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: (i) Full-time student Check Point Credit Threshold End of FIRST year 20	

Item No. 32- BOS -12:**Revised Curriculum for M.Tech programs**

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)

(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)

(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)

**For
Senate
approval**

**For
Senate
approval**

**For
Senate
approval**

**For
Senate
approval**

(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 2019-20.

(Annexure - 19, P. No.208-213)

**For
Senate
approval**

(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 2019-20 along with the change in name of the specialization.

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

**For
Senate
approval**

(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 2019-20 along with the change in name of the specialization.

(Annexure - 21, P. No.220-225)

**For
Senate
approval**

(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)**

**For
Senate
approval**

(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)**

**For
Senate
approval**

(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)**

**For
Senate
approval**

(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 to be implemented from the academic year 2019-20 along with the change in name of the specialization. **(Annexure - 25, P. No.243-248)**

**For
Senate
approval**

(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)**

**For
Senate
approval**

(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)**

**For
Senate
approval**

(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)**

**For
Senate
approval**

(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.)**

**For
Senate
approval**

(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)**

**For
Senate
approval**

(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)**

**For
Senate
approval**

(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.)

**For
Senate
approval**

(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
(Annexure -33, P. No. 305-311)

**For
Senate
approval**

(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.)

**For
Senate
approval**

(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).

**For
Senate
approval**

(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)

**For
Senate
approval**

(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)

**For
Senate
approval**

(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)

**For
Senate
approval**

(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)

**For
Senate
approval**

(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)**

**For
Senate
approval**

ITEM No: 32-BOS - 13:

Modification in M. Tech (Research) Regulations- residential requirements - To be effective from Academic year 2018-2019.

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.

**For
Senate
approval**

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*

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.

**For
Senate
approval**

Existing	Proposed
2.3 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*

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

**For
Senate
approval**

Existing	Proposed
COURSE STRUCTURE: 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 b) Elective Courses \geq 12 Credits c) Mandatory Learning Courses (Seminar) \geq 03 Credits d) M.Sc. Project \geq 06 Credits	COURSE STRUCTURE: 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 b) Elective Courses \geq 12 Credits c) Mandatory Learning Courses (Seminar) \geq 03 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*

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.

**For
Senate
approval**

(a) Physics (PH)

The BoS resolved to recommend the proposal of the DPGC of the 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

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.

Existing	Proposed
COURSE STRUCTURE: 2.1 The total course package for a M.C.A. Programme will typically consist of the following components. (a) Programme Core Courses Pc ≥ 60 Credits (b) Elective Courses Ele ≥ 24 Credits (c) Major Project MP = 20 Credits (d) Mandatory Learning Courses MLC = 04 Credits	COURSE STRUCTURE: 2.1 The total course package for a M.C.A. Programme will typically consist of the following components. (a) Programme Core Courses Pc ≥ 60 Credits (b) Elective Courses Ele ≥ 24 Credits (c) Major Project MP = 10 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

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)**

**For
Senate
approval**

Item No. 32- BOS -19**Revised Curriculum for MBA programs***To be effective from 2018-19 MBA admissions*

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)

**For
Senate
approval**

ITEM No: 32-BOS - 20:**Modification in PhD Regulations-Admissions***To be effective from Academic year 2019-2020*

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.

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 (e) Internal Registrant - sponsored Institute or Project staff of NITK	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	For Senate approval
v. A non-sponsored non-scholarship (self-financed) student of type (d) will not receive any financial assistance from the Institute.	To be deleted	For Senate approval
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.	For Senate approval

ITEM No: 32-BOS - 21:**Modification in PhD Regulations-Programme Structure***To be effective from Academic year 2018-2019*

The BoS resolved to recommend the modifications in the Regulations of PhD Degree Programme 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.	For Senate approval
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	For Senate approval
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.	For Senate approval
Nil	5.2 Comprehensive Exam Comprehensive exam will be conducted every 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	For Senate approval

	<p>deemed to have qualified in this exam if he/she obtains 60% marks in the exam and satisfactorily completes the oral exam.</p> <p>If a student performs non-satisfactorily in the oral exam, he/she needs to retake only the oral exam.</p> <p>A maximum of two attempts to qualify in the comprehensive exam will be given.</p> <p>If a student does not qualify in the comprehensive exam even after two attempts, his/her registration will be terminated.</p> <p>The question paper for comprehensive exam would be set by the respective DRPC</p>	
<p>5.2 Research Proposal Submission and Assessment</p> <p>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.</p>	<p>5.3 Research Proposal Submission and Assessment</p> <p>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 within two and half years the registration will be terminated.</p>	For Senate approval
<p>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</p>	<p>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</p>	For Senate approval

paper published or accepted for publications preferably in a refereed journal or in a conference proceedings.	publications preferably in a refereed Journal. (Scopus/SCI/ESCI/SSCI/AHCI).	
5.4.4 c. Details of the courses studied (for all categories of research scholars) and also certificates with regard to the residential clause from the guide and Head of the Department (for external registrants).	5.4.4 c. Details of the courses studied (for all categories of research scholars) (Residential requirement Clause Removed)	For Senate approval
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)	For Senate approval

Item No. 32 – BOS-22:

Revised Curriculum for PhD programme

To be effective from 2018-19 PhD admissions

(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**).

For Senate approval

(b) Mechanical Engineering

The Department of Mechanical Engineering has proposed revised 900 level courses for Ph.D students.
(**Annexure -47, P. No. 392-393**).

For Senate approval

(c) Mathematical and Computational Sciences

The Department of Mathematical and Computational Sciences has proposed revised 900 level courses for Ph.D students.
(**Annexure - 48, P. No. 394-401**).

For Senate approval

(d) Information Technology

The Department of Information Technology has proposed revised 900 level courses for Ph.D students. (**Annexure 49, P. No. 402-410**).

For Senate approval

(e) Mining Engineering

The Department of Mining Engineering has proposed revised 900 level courses for Ph.D students.
(Annexure 50, P. No. 411-412).

**For
Senate
approval**

(f) Electrical & Electronics Engineering :

The Department of Electrical & Electronics Engineering has proposed revised 900 level courses for Ph.D students.
(Annexure 51, P. No. 413-415).

**For
Senate
approval**

(g) Electronics & Communication Engineering:

The Department of Electronics & Communication Engineering has proposed revised 900 level courses for PhD students.
(Annexure 52, P. No. 416-418).

**For
Senate
approval**

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

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.

**For
Senate
approval**

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

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 for the work done till then, to award the MSc degree.

**For
Senate
approval**

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

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 within intake of 29 students.

**For
Senate
approval**

The details are enclosed as **Annexure 53, P. No. 419-436.**

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

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.

**For
Senate
approval**

The revised curriculum are enclosed as **Annexure 54, P. No.437.**

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

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

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

**For
Senate
approval**

The revised curriculum are enclosed as **Annexure 55, P. No.438-445.**

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

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.

**For
Senate
approval**

<p>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.</p>	<p><i>Reporting to Senate</i></p>
<p>The details are enclosed as Annexure - 56, P. No.446-447.</p>	

<p>ITEM No: 32-BOS - 29: Reduction in annual Intake for admission to MCA programme – proposal of Department of Mathematical and Computational Sciences</p> <p>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.</p> <p>The details are enclosed as Annexure - 57, P. No.448-452.</p>	<p>For Senate approval</p>
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Item No. 32 – BOS-30:	
Inclusion of External Additional Guides:	
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.	For Reporting
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.	For Reporting
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.	For Reporting
iv. The BoS resolved that Dr. Vijayakumar H. Asst. Professor, KLEIT, Hubballi, not to be considered for inclusion as an Additional Guide for Mr. Anil Kadam, Shashikumar C M, Jeena Joseph, Ritesh Kumar Parida, Vasishta Adamane in the Dept. of Mechanical Engineering.	For Reporting

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.

**For
Reporting**

**For
Reporting**

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.

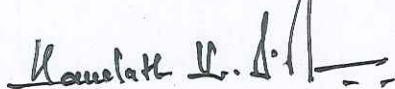
**For
Reporting**

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.

**For
Reporting**

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



(Kamlabh Kumar Singh)
Secretary –BOS, NITK



(Dr. M. B. Saidutta)
Chairman-BOS, NITK