

MINUTES

OF

THIRTY FOURTH MEETING OF BOARD OF STUDIES

Date

05.12.2019 (Thursday)

Time

3.00 PM

Venue

Board Room,

N.I.T.K - Surathkal,

Srinivasnagar, Mangalore

PIN - 575 025.

Minutes of the Thirty Fourth combined Board of Studies (UG, PG & Research) Meeting held on Thursday, December 05, 2019 in the Board Room, NITK, Surathkal.

MEMBERS PRESENT

1)	Dr. A. Nityananda Shetty	•••	Chairman
2)	Dr. A. H. Sequeira		Member
3)	Dr. Jagannath Nayak		Member
4)	Dr. K Panduranga Vittal		Member
5)	Dr. Paresh Chandra Deka	=1	Representative of HOD, Dept. of AMD
6)	Dr. K Swaminathan		Member
7)	Dr. Bijay Mihir Kunar		Representative of HOD, Dept. of MN
8)	Dr. Alwyn Roshan Pais		Member
9)	Dr. T. Laxminidhi		Member
10)	Dr. Shubhanga KN	•••	Member
11)	Dr. Prasanna B D		Member
12)	Dr. Biju R Mohan	•••	Member
13)	Dr. Shrikantha S. Rao	***	Member
14)	Dr. Kumar G N	•••	Member
15)	Dr. Anandhan Srinivasan	7	Member
16)	Dr. Arun Mohan Isloor		Member
17)	Dr. S S Kamath	***	Member
18)	Dr. H.S. Nagaraja	•••	Member
19)	Dr. S.Pavan Kumar		Member
20)	Dr Mallikarjun Angadi		Member
21)	Dr. Vidya Shetty	*••	Member
22)	Dr. Ashvini Chaturvedi		Member
23)	Mr. K. Ravindranath		Member
24)	Ms. Priyanka D Amadalli	•••	Member
25)	Mr. Jaya Kumar Seelam	•••	External Member
26)	Mr. Kamlabh Kumar Singh		Secretary

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Minutes of Thirty Fourth (34th) BOS meeting held on 05.12.2019 (Thursday)

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

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

a)	Department of Electronics and Communication Engineer. The BOS resolved to recommend the inclusion of following list of Electives of UG programme.		
II. III. IV.	EC 478 Complex Analysis and Applications EC 479 Computational Inverse Problems and Applications EC 386 Mini Project in Image Processing EC 387 Mini Project in AI and Machine Learning EC 388 Mini Project in Photonics	(3-1-0)4 (3-1-0)4 (0-0-3)2 (0-0-3)2 (0-0-3)2	For Senate approva

The BOS resolved to recommend	i the	inclusion	OI	ionowing	elective	111	the
list of Electives of UG programme	е						8

I. ME320 Cryogenics (3-0-0)3

c) Department of Physics –
The BOS resolved to recommend the inclusion of following elective in the list of Electives of UG programme.

I. Introduction to cosmology (3-0-0)

ITEM No: 34-BOS-2:	Introduction of ne	w Course in UG Curriculum:	For
a) Department of N	Iechanical Engineerin	ıg -	Senate
The BOS resolved	d to recommend the ir	clusion of following course in the	approva
list of electives fo	r UG Curriculum as fol	lows	
i) ME:	319 Mini Project I	(0-0-3)2	

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ITEM No: 34-BOS-3: Change of Course Code as per UG Curriculum 2017

The BOS resolved to approve the recommendation of DUGC of the Department of Mechanical Engineering for the Change of Course Code as per UG Curriculum 2017 of ME328 Machine Design offered for Metallurgical and Materials Engineering to ME353 Machine Design.

Reporting to Senate

ITEM No: 34-BOS - 4: To start new undergraduate programme in Artificial Intelligence - proposal of Department of Information Technology.

The BOS resolved after detailed deliberation to constitute a committee to lookinto the Course Structure and Course Content of the new B.Tech Programme proposed by the department of Information Technology. The sub-committee will submit its final report to the Chairperson, Board of Studies who is authorized to take decision on behalf of the BOS for submission to the Senate.

For Senate approval

ITEM No: 34-BOS - 5: To start new undergraduate programme in Engineering Physics - proposal of Department of Physics.

The BOS resolved to recommend the starting of the new B.Tech programme in Engineering Physics proposed by the department of Physics. The Department may submit detailed course structure and course details as per the Institute regulations. It was also resolved to authorise the Chairman, Board of Studies to take decision on behalf of BoS for submission to the Senate.

For Senate approval

ITEM No: 34-BOS-6: Introduction of new PG program Elective Courses:

a) Department of Applied mechanics and Hydraulics

The BOS resolved to recommend the inclusion of following elective in the list of Electives of PG programme.

I. AM838 Thermal Remote Sensing It was resolved that the department may provide (L-T-P) credits of the course for submission to Senate.

For Senate approval

b) Department of Chemical Engineering

The BOS resolved to recommend the inclusion of following elective in the

List of Flortives of M Tech (Chemical Engineering) Programme.

list of Electives of M.Tech (Chemical Engineering) Programme.

I. CH 815 Molecular Simulations (3-0-0)

I. CH 815 Molecular Simulations (3-0-0)

The BOS resolved to include detailed course content for the existing course as proposed by the Department.

II. CH 704 Instrumentation analysis

(0-0-3)2

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c) Department of Electronics and Communication Engineering

The BOS resolved to recommend the inclusion of following electives in the list of Electives of PG programme.

M. Tech (Signal Processing and Machine Learning) as follows:

i) EC874 Detection, Estimation and Statistical Learning Theory

(4-0-0)4

ii) EC875 Probabilistic Models in Machine Learning (4-0-0)4

iii) EC 876 System Identification and Control (4-0-0)4

(4-0-0)4iv) EC 877 Inverse Problems: Theory and Applications

M.Tech (Communication Engineering and Networks) as follows:

i) EC 848 Signal Processing Techniques for Software defined Radios

(4-0-0)4

Wireless Transceiver Systems Design for 849 RF (4-0-0)4Communication:

and Integrated Circuits for Wireless Design iii) EC 850 (4-0-0)4Communication:

d) Department of Mechanical Engineering

The BOS resolved to recommend the inclusion of following elective in the list of Electives of PG programme.

i) ME 845 Transport Phenomena in Porous Media

(3-0-0)3

e) Department of Physics

The BOS resolved to recommend the inclusion of following elective in the list of Electives of PG programme.

i) Classical Field Theory (3-0-0)

ii) Cosmology (3-0-0)

Renaming of M Tech programme in Remote ITEM No: 34-BOS - 7:

Sensing and GIS as M Tech in Geoinformatics.

The BOS resolved to approve the recommendation of DFC of the Department of Applied Mechanics and Hydraulics to rename the M Tech programme in Remote Sensing and GIS as M Tech in Geoinformatics.

For Senate approval

For

Senate

approval

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ITEM No: 34-BOS - 8: Modification in Regulations specific to M.Tech. Degree Programme

The BoS resolved to recommend the modifications in regulations specific to M.Tech Degree programme. The details are as follows:

Existing 4. DEGREE REQUIREMENTS:

- 4.1 The degree requirements of a student for the M.Tech. Degree programme are as follows:
- (a) Institute Requirements:
- i) Minimum Earned Credit Requirement for Degree is 50-55.
- 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:

Check	Credit
Point	Threshold
End of FIRST vear	20

Note: The period of temporary withdrawal is not to be counted for the above Credit Threshold.

- (b) If a student is absent for more than 6 (Six) weeks in a semester without sanctioned leave.
- (c) If CGPA of at least 5.50 is not secured in the course work.
 {in such cases the student is given the option of getting the P.G.
 Diploma Instead of the
 M.Tech.Degree}. However, students
 with CGPA>5.50 may opt for P.G.
 Diploma after the completion of

the course work.

Proposed
4. DEGREE REQUIREMENTS:

4.1 The degree requirements of a student for the M.Tech. Degree programme are as follows:

- (a) Institute Requirements:
- i) Minimum Earned Credit Requirement for Degree is 50-55.
- ii) Securing overall CGPA of at least 5.50.
- 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:

Check Point	Credit Threshold
End of FIRST	20
year	

Note: The period of temporary withdrawal is not to be counted for the above Credit Threshold.

- b) If a student is absent for more than 6 (Six) weeks in a semester without sanctioned leave.
- c) If overall **CGPA** of at least 5.50 is not secured.

(in such cases the student is given the option of getting the P.G. Diploma

Instead of the M.Tech. Degree}.

For Senate approval

For Senate approval

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ITEM No: 34-BOS - 9: Modification in Regulations specific to M.Sc. Degree Programme.

The BoS resolved to modify the regulations specific to M Sc Degree programme. The details are mentioned below:

Existing

3.5. M.Sc Project

(e) 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 be considered for SGPA and CGPA calculations.

part of the final evaluation. After the final evaluation, appropriate double letter grade is awarded, which **will be** considered for SGPA and CGPA calculations.

proposed

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

For Senate approval

7.0. Conversion from M.Sc to Dual degree (M.Sc + PhD) Programme:

M.Sc students who have secured more than 8.5 CGPA after the completion of first year can opt to convert to Ph.D. They should have joined the M.Sc programme with a valid NET/GATE score. Procedure laid out for Ph.D admissions will be applicable for conversion from M.Sc to PhD. The students who convert from M.Sc to PhD will be awarded M.Sc degree on submission of Ph.D synopsis. Course work of the Ph.D programme can be waived in this case. However, these complete students have to course Research methodology addition to the second year courses of the M.Sc programme. In case of termination of student from a PhD programme, he/she will be evaluated for the work done till then, to award the M.Sc degree.

Conversion from M.Sc to Dual degree (M.Sc+PhD) Programme:

M.Sc students who have secured more than 8.5 CGPA after the completion of first year can opt to convert to Ph.D. They should have obtained a valid NET/GATE score before the start of second year. Procedure laid out for Ph.D admissions will be applicable for conversion from M.Sc to PhD. The students who convert from M.Sc to PhD will be awarded M.Sc degree on submission of Ph.D synopsis. Course work of the Ph.D programme can be waived in this case. However, these students have to complete Research methodology course addition to the second-year courses of the MSc programme. In case of termination of student from a PhD programme, he/she will be evaluated for the work done till then, to award the M.Sc degree.

For Senate approval

4. DEGREE REQUIREMENTS:

4.1 The degree requirements of a student for the M.Sc. Degree programme are as follows:

- (a) Institute Requirements:
 - i) Minimum Earned Credit Requirement for Degree 80.
 - ii) Securing a CGPA of at least 5.50 in the Course Work.

4.DEGREE REQUIREMENTS:

- 4.1 The degree requirements of a student for the M.Sc. Degree programme are as follows:
 - (a) Institute Requirements:
- i) Minimum Earned Credit Requirement for Degree 80.

For Senate approval

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iii) Satisfactory completion of all Mandatory Learning Courses.

ii) Securing overall CGPA of at least 5.50

iii) Satisfactory completion of all Mandatory Learning Courses.

5. TERMINATION FROM THE PROGRAMME:

5. TERMINATION FROM THE PROGRAMME:

End of FIRSTyear

End of SECOND

year

A student shall be required to leave the Institute without the award of the Degree, under the following circumstances:

A student shall be required to leave the Institute without the award of the Degree, under the following circumstances:

For Senate approval

(a) If a student fails to earn the minimum credit specified below:

Check Point	Credit Threshold
End of FIRSTyear	20
End of SECOND year	40

Note: The period of temporary withdrawal is not to be counted for the above Credit Threshold.

(b) If a student is absent for more than 6 (Six) weeks in a semester without sanctioned leave.

(c) If a CGPA of at least 5.50 is not secured in the Course Work.

(d)Based on disciplinary action suggested by the Senate, on the recommendation of the appropriate committee.

(a) If a student fails to earn the minimum credit specified below:

Check Point
Credit
Threshold

20 40

Note: The period of temporary withdrawal is not to be counted for the above Credit Threshold.

(b) If a student is absent for more than 6 (Six) weeks in a semester without sanctioned leave.

(c) If overall CGPA of at least 5.50 is not secured.

(d)Based on disciplinary action suggested by the Senate, on the recommendation of the appropriate committee.

ITEM No: 34-BOS - 10: Modification in Regulations specific to MCA Degree Programme.

The BoS resolved to recommend the modification in the regulations specific to MCA Degree programme. The details are mentioned below:

		Existing
2.4:	Major	Project

calculations

Modification proposed

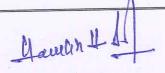
(e)The final evaluation is done by a Project (PWEC) Work Evaluation Committee constituted by the pertinent DPGC. There shall be an open seminar followed by a viva-voce examination as part of the final evaluation. After the final evaluation, grade double-letter appropriate awarded, which will not however be **CGPA** and considered SGPA for

2.4: Major Project
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

For Senate approval

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3. DEGREE REQUIREMENTS:

- 3.1 The degree requirements of a student for the M.C.A. programme are as follows:
 - (a) Institute Requirements:
 - i) Minimum Earned Credit Requirement for Degree is 102.
 - 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:

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 FIRSTyear	20
End of SECOND	40
year	
End of THIRD year	60

Note: The period of temporary withdrawal is not to be counted for the above Credit Threshold.

(b) If a student is absent for more than 6 (Six) weeks in a semester without sanctioned leave.

(c) If a CGPA of at least 5.50 is not secured in the Course Work.

(d)Based on disciplinary action suggested by the Senate, on the recommendation of the appropriate committee.

3. DEGREE REQUIREMENTS:

3.1 The degree requirements of a student for the M.C.A. programme are as follows:

(a) Institute Requirements:

- i) Minimum Earned Credit Requirement for Degree is 102.
- ii) Securing overall CGPA of at least 5.50
- 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:

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	20
year	
End of SECOND	40
year	
End of THIRD	60
year	

Note: The period of temporary withdrawal is not to be counted for the above Credit Threshold.

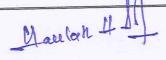
- (b) If a student is absent for more than 6 (Six) weeks in a semester without sanctioned leave.
- (c) If overall CGPA of at least 5.50 is not secured.
- (d) Based on disciplinary action suggested by the Senate, on the recommendation of the appropriate committee.

For Senate approval

For Senate approval

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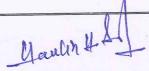
TEM No: 34-BOS - 11: To consider Management Aptitude test (MAT) in addition to Common Admission Test (CAT) from the Academic year 2020-2021 for admission to MBA Program - Proposal of School of Management.	
The BOS resolved to approve the recommendation of the DFC of School of Management to consider Management Aptitude test (MAT) in addition to Common Admission Test (CAT) from the Academic year 2020-2021 for the admission to MBA Program. Further BoS resolved to approve the recommendation of the DFC not to consider Common Management Admission Test (CMAT) and Graduate Management Admission Test (GMAT) for the admission to MBA program from the academic year 2020-21. It was resolved to recommend the proposal of the department to consider Institute level selection test for short listing the candidates for any vacant seats.	For Senate approval
TEM No: 34-BOS - 12: Restructuring of the PG programs offered by the Department of Metallurgical and Materials Engineering.	
The BOS resolved to defer the proposal of the DFC of the Department of Metallurgical and Materials Engineering to offer only one PG program M. Tech in Metallurgical and Materials Engineering with the intake of 59 from the next academic year 2020-21. The department was asked to resubmit the proposal with details.	For Senate approval
ITEM No: 34-BOS - 13: To start new M Tech programme - proposal of Department of Mining Engineering.	
The BoS resolved to approve the proposal of the department of Mining Engineering. The department may submit detailed course structure and course details as per institute regulations after vetting through experts from Industry and Academia. It was also resolved to authorise the Chairman Board of Studies to take decision on behalf of the BoS for submission to the Senate.	For Senate approval
ITEM No: 34-BOS - 14: Modification of Course Structure suggested plan of B Tech Programme - Department of Electronics and Communication Engineering. The BOS resolved to approve the recommendation of DUGC of the Department of Electronics and Communication Engineering to modify the Course structure and plan of study of B Tech programme.	For Senate approval
ITEM No: 34-BOS - 15: Course Code for the SPARC Winter School on	
Applications of Machine Learning Techniques to Medical Image Processing. The BoS resolved to approve the proposal of the Department of E&C to treat the course EC 899 – Applications of Machine Learning Techniques to Medical Image Analysis (3-0-2) conducted during a Winter School from 1-20th of December	For Senate approval

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Analysis (3-0-2), conducted during a Winter School from 1-20th of December under the SPARC project, equivalent to a 4-credit M.Tech Elective (3-0-2) and

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permit the students to acquire 4 credits for the same.



ITEM No: 34-BOS - 16: Modification in Regulations specific to PhD Degree Programme.

The BoS resolved to recommend the modification in regulations specific to PhD

Degree programme. The details are mentioned below:

Existing Full the case of In 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 selfstudy 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.

3.4. A minimum of 70 days (preferably first semester) residential requirement is to be completed by all the external registrants during the completion of course credit requirements.

registrant external However, sponsored from industry or other organizations may be allowed by DRPC on case to case basis, to do certified MOOCs pre-approved courses and also a self-study course, towards the requirement of 12 will be Examination credits. conducted for such certified courses to award grades, by the department. They also need to do a certified Research methodology course. Such external registrants still need to complete the 70 days residential requirement, by multiple spread over the entire duration of Doctoral programme. The duration and number of such visits to the Institute shall be decided by the Research guide.

For Senate approval

TEM No: 34-BOS - 17: Guidelines for PhD Re-registration after termination.

The BOS resolved to consider the guidelines for re-registration of the PhD programme on termination of Registration due to extension beyond seven years of PhD programme.

For Senate approval

TEM No: 34-BOS - 18: Change in constitution of DRPC from existing structure to new structure - Proposal of Department of Electronics and Communication Engineering.

The BOS resolved to approve the proposal of the DFC of the Department of Electronics and Communication Engineering and Dean (Alumni Affairs & Institutional Relations) for change in constitution of DRPC from existing structure of having all faculty with Ph. D degree to a new structure having same constitution that of DPGC.

For Senate approval

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Wedger,

The proposed constitution of the DRPC is as follows:

- I. Head of the Department or his nominee
- Chairperson
- II. Two Professors (by rotation for one year)
- Member
- III. Two Associate Professors ()by rotation for one year) Member
- IV. Two Assistant Professors (by rotation of one year)) Member

For matter pertaining to a particular Research Scholar, Research Guide and additional guide shall be the invited members.

Revision in qualifying discipline and eligibility TEM No: 34-BOS - 19: criteria for admission to PhD programme in Mining Engineering.

The BOS resolved not to consider the proposal of the DRPC of the Department of Mining Engineering regarding revision of eligibility criteria for admission to PhD programme, as the Institute follows common eligibility criteria for admissions to its PhD programme while Specializations for admission is the discretion of the respective departments and decision may be taken by the concerned DRPC.

For Senate approval

Inclusion of External Additional Guides: TEM No: 34-BOS - 20:

a) Department of Mechanical Engineering. The BOS resolved to approve that, Dr. T Ram Prabhu, Scientist, DRDO Bangalore be considered for inclusion as an Additional Research Guide for

Mr. Ashok Kumar S (197ME502) in the department of Mechanical Engineering.

b) Department of Electronics & Communication Engineering. The BOS resolved to approve that, Dr. B. Hariram Selvamurugan Satheesh be considered for inclusion as an Additional Research Guide (Co guide) for

Ms. Asha G H (187EC500) in the department of Electronics & Communication Engineering.

For Senate approval

Recognition of faculty as Research Guides: TEM No: 34-BOS - 21:

The BOS resolved to ratify the list of faculty who were recognized as Research Guide after 33rd BOS meeting based on the respective DRPC recommendations.

To Senate for information

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

(Kamlabh Kumar Singh)

Secretary -BOS, NITK

(Dr. A Nithyananda Shetty) Chairman-BOS, NITK