

NANDHA ENGINEERING COLLEGE, ERODE – 638 052

(An Autonomous Institution, Affiliated to Anna University Chennai and

Approved by AICTE New Delhi)

MINUTES OF THE 4th BOARD OF STUDIES MEETING

Name of the Body	Board of Studies
Name of the Board	Mechanical Engineering
Meeting No.	04
Date & Time	20.02.2016, 10.00 am
Venue	Board Room Nandha Engineering College (Autonomous) Erode – 638 052

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Minutes of 4th Board of Studies Meeting (BoS) held on 20.02.2016

The 4th Board of Studies (BoS) meeting was held on 20.02.2016 by 10.00am at Board Room, Nandha Engineering College, Erode - 52. The members attended the meeting are given in **Annexure I**.

The Chairman of the BoS, Dr.M. Easwaramoorthi, Professor & Dean, Mechanical Engineering welcomed the members for the meeting. Then, the items listed below were taken for discussion.

AGENDA	
Item 4.01	To note and approve the minutes of 3 rd BoS meeting, Mechanical Engineering held on 11.04.2015.
Item 4.02	To review and approve the curriculum & syllabi of 7 th and 8 th semesters under Regulation R13 for the batch of students admitted from the year 2013 – 14 onwards in B.E., Mechanical Engineering course.
Item 4.03	To review and approve the curriculum & syllabi of 3 rd and 4 th Semesters under Regulation R15 for the batch of students admitted from the year 2015 – 16 onwards in B.E., Mechanical Engineering course.
Item 4.04	To review and ratify the “one credit courses” conducted during 2015-16 to 2 nd year (3 rd semester) and 3 rd year (5 th Semester) students of B.E., Mechanical Engineering
Item 4.05	Any other matter

The proceedings of BoS started and the minutes of the meeting are recorded as follows:

Item - 4.01	To consider and approve the minutes of 3 rd BoS meeting, Mechanical Engineering held on 11.04.2015.	
Resolution	Resolved to approve the minutes of 3 rd BoS meeting.	
Item - 4.02	To review and approve the curriculum & syllabi of 7 th and 8 th semesters under Regulation R13 for the batch of students admitted from the year 2013 – 14 onwards in B.E., Mechanical Engineering course.	
Discussion	<p><u>7th Semester:</u> Dr. E. Natarajan suggested to</p> <ul style="list-style-type: none"> • Include two textbooks preferably one Indian author & one foreign author, and five book titles as references. • Arrange reference book list alphabetically by the author's name. 	<p>✓ Textbook & reference books are included uniformly</p>
	<p><u>Principles of Management :</u></p> <ul style="list-style-type: none"> • Mr.R.Vasu advised to include the topics on vision and values suitably. • Mr.M.Vinoth advised to include key performance indicator (KPI) suitably in any one of the units 	<p>✓ Topics added</p> <p>✓ Included</p>

Discussion	<p><u>Finite Element Analysis :</u></p> <ul style="list-style-type: none"> • Dr.R.Vasudevan suggested to <ul style="list-style-type: none"> ✓ Include topics on requirements of elements, shape function, formulation and convergence in Unit-I and move few relevant topics in Unit-V to Unit-I ✓ Recommended to add “Dynamic Analysis” in Unit V. • Dr. L. Vijayaraghavan advised to add a book titled “Textbook of Finite Element Analysis”, authored by Seshu.P as textbook. 	<ul style="list-style-type: none"> ✓ Topics included ✓ Textbook added
	<p><u>CAD / CAM / CIM :</u></p> <ul style="list-style-type: none"> • Mr.R.Vasu suggested including DFM tools in Unit-I. • Dr.L.Vijayaraghavan advised to include concepts of Flexible Manufacturing Systems (FMS) in Unit IV and add textbook on “CAD / CAM Theory and Practice” by Ibrahim Zeid and R.Sivasubramanian 	<ul style="list-style-type: none"> ✓ Titles added
	<p><u>Computer Aided Analysis Laboratory:</u></p> <ul style="list-style-type: none"> • Dr.L.Vijayaraghavan suggested to mention generic name of software package instead of Corporate Software providers' name. 	<ul style="list-style-type: none"> ✓ Names changed
	<p><u>Extra-curricular Activities (ECA):</u></p> <ul style="list-style-type: none"> • Mr.C.Sathyamurthy recommended to change the ECA course name suitably like Career Development Programmes/ Employability Enhancement Programmes/Skill Development Programmes / Personality Development Programmes. • Mr.R.Vasu suggested <ul style="list-style-type: none"> ✓ to consider the inclusion of Debate kind of activities in ECA. ✓ to take up local societal needs/problems as a part of ECA and present the observations as case studies. 	<ul style="list-style-type: none"> ✓ Would be put forth before SCAA since the course is common for all branches
	<p><u>Professional Electives:</u></p> <p><u>Lean and Agile Manufacturing :</u></p> <ul style="list-style-type: none"> • Mr.M.Vinoth suggested to add topics on Poka - Yoke appropriately under lean manufacturing tools <p><u>Fuels and Combustion :</u></p> <ul style="list-style-type: none"> • Dr.E. Natarajan suggested to add text book, “Fuels and Combustion” by Samir Sarkar. 	<ul style="list-style-type: none"> ✓ Topic added ✓ Added

Discussion	<p><u>Metal Forming Technology :</u></p> <ul style="list-style-type: none"> • Dr.L.Vijayaraghavan advised <ul style="list-style-type: none"> ✓ to check availability of textbook, "Manufacturing Processes 4 Forming" authored by Fritz Klocke for ease of accessibility ✓ to verify the limitations in citing ebooks as textbook or reference book in the syllabus. <p><u>Mechanical Vibrations :</u></p> <ul style="list-style-type: none"> • Dr.R.Vasudevan recommended <ul style="list-style-type: none"> ✓ to include the topics Modal Analysis, continuous systems appropriately. ✓ to rearrange the contents in Unit III, IV & V suitably. <p><u>New Venture Planning and Management :</u></p> <ul style="list-style-type: none"> • Mr.R.Vasu advised <ul style="list-style-type: none"> ✓ to explore the provision of giving case studies. ✓ to include the topics on steps for starting an enterprise, registration, norms, legal aspects of New Venture, vision, values etc., <p><u>Metal Casting Technology :</u></p> <ul style="list-style-type: none"> • Mr.C.Sathyamurthy recommended <ul style="list-style-type: none"> ✓ to add a topic on High Pressure Moulding in Unit II and Investment Casting in Unit III. ✓ to add textbook on "Manufacturing Technology Foundry, Forming and Welding – Vol I" by P.N.Rao 	<ul style="list-style-type: none"> ✓ Available as ebook ISBN: 978-3-642-36771-7 ✓ Ebooks can be cited if the book is made available in library ✓ Topics included ✓ Modified ✓ Considered to be given as assignment topics (case study) ✓ Included ✓ Topics & books title added
Resolution	Resolved to approve the curriculum & syllabi of 7 th and 8 th Semesters under Regulation R13 for the batch of students admitted from 2013-14 onwards in B.E., Mechanical Engineering course.	
Item 4.03	To review and approve the curriculum & syllabi of 3 rd and 4 th Semesters under Regulation R15 for the batch of students admitted in the year 2015-16 onwards in B.E., Mechanical Engineering course.	
Discussion	<p><u>3rd Semester:</u></p> <p><u>Manufacturing Processes :</u></p> <ul style="list-style-type: none"> • Dr.E.Natarajan suggested to include one more textbook titled "Elements of Workshop Technology", Vol.1 by S.K.Hajra Choudhury, A.K.Hajra Choudhury and Nirjhar Roy. • Mr.R.Vasu recommended to introduce the concepts of assembly processes in any one of the units. <p><u>Materials Engineering and Technology :</u></p> <ul style="list-style-type: none"> • Dr.L.Vijayaraghavan advised to include textbooks, "Materials Science and Engineering by V.Raghavan" and "Elements of Material Science and Engineering by Van Vlack" in the syllabus 	<ul style="list-style-type: none"> ✓ Text book added ✓ Topic added ✓ Text books added

	4thSemester: Strength of Materials : <ul style="list-style-type: none"> • Dr.R.Vasudevan recommended to move the contents of Unit V to Unit II. Material Removal Processes: Dr.L.Vijayaraghavan advised to change the titles of Unit III and IV	✓ Rearranged ✓ Changed
Resolution	Resolved to approve the curriculum & Syllabi of 3 rd and 4 th Semesters under Regulation R15 for the batch of students admitted from 2015-16 onwards in B.E., Mechanical Engineering course.	
Item 4.04	To review and ratify the "one credit courses" conducted during 2015-16 to 2 nd year (3 rd semester) and 3 rd year (5 th Semester) students of B.E., Mechanical Engineering	
Resolution	Resolved to approve the titles of "one credit courses" conducted during 2015-16 to 2 nd year (3 rd semester) and 3 rd year (5 th Semester) students of B.E., Mechanical Engineering. - List	
Item 4.04	Any other matters - Nil	

Finally, Prof. M.K. Murthi, Head of the Department thanked all the members for their active participation

Date: 20.02.2016

M.K. Murthi
 29/3/16

[Signature]
 29/3/16

Dr. M. Easwaramoorthi
 (Chairman, BoS / Mechanical Engineering)

[Signature]
 29/3/16



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Pitchandampalayam, Erode To Perundurai Road, Erode-638 052

BOARD OF STUDIES

Academic Year : 2016 - 17

Board	Mechanical Engineering	Meeting No.	4	R2013 & R2015
Venue	Board Room, NEC	Date & Time	20 th Feb 2016, 09.30 AM	

MEMBERS ATTENDED

Sl.No	Members	Representation	Signature
1	Dr. Easwaramoorthi.M, Professor & Dean / MECH	Chairman	
2	Dr.E.Natrajan, <i>for</i> Professor, Institute of Energy Studies, Anna University, Chennai - 600 025	University Nominee	
3	Dr.L.Vijayaraghavan, Professor, Mechanical Engineering, Indian Institute of Technology Madras, Chennai	Expert Nominee (Nominated by Academic Council)	
4	Prof. R.Vasudevan Professor, Mechanical Engineering, VIT University, Vellore Campus, Vellore - 632 014	Expert Nominee (Nominated by Academic Council)	
5	Mr. R.Vasu Vice President / Quality Systems TVS - Brakes India Limited, Chennai - 600 050	Member (Expert from Industry)	
6	Mr.C.Sathyamurthy, Vice President, AQUASUB Engineering, Coimbatore - 641 034	Member (Expert from Industry)	
7	Mr. M.Vinoth, Senior Manager / Lotus Footwear Enterprises, Feng Tay group of companies / Industrial Park, Mangal Village, Cheyyar Taluk, Tiruvannamalai -631701	Alumni	



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BOARD OF STUDIES

8	Prof.M.K.Murthi, Professor / Mech	Member	<i>M.K.Murthi</i>
9	Prof.M.Muthukumar, Professor / Mech	Member	<i>M.Muthukumar</i>
10	Mr.V.Chandramohan, Associate Professor / Mech	Member	<i>V.Chandramohan</i>
11	Mr.V.N.Loganathan, Associate Professor / Mech	Member	<i>V.N.Loganathan</i>
12	Mrs.A.D.Latha, Associate Professor / Mech	Member	<i>A.D.Latha</i>
13	Mr.K.Ganesan, Associate Professor / Mech	Member	<i>K.Ganesan</i>
14	Mr.M.Shanmugam, Associate Professor / Mech	Member	<i>M.Shanmugam</i>
15	Mr.M.Sengottaiyan, Assistant Professor / Mech	Member	<i>M.Sengottaiyan</i>
16	Mr.S.Eswaran, Assistant Professor / Mech	Member	<i>S.Eswaran</i>
17	Mr.K.Pradeep Kumar, Assistant Professor / Mech	Member	<i>K.Pradeep Kumar</i>
18	Mr.M.Sugumar, Assistant Professor / Mech	Member	<i>M.Sugumar</i>

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24/2/16
(over caught)