

NANDHA ENGINEERING COLLEGE, ERODE - 638 052

(An Autonomous Institution, Affiliated to Anna University Chennai and

Approved by AICTE New Delhi)

MINUTES OF THE 7th BOARD OF STUDIES MEETING

Name of the Body	Board of Studies
Name of the Board	Mechanical Engineering
Meeting No.	07
Date & Time	29.12.2018, 10.00 am
Venue	Board Room Nandha Engineering College (Autonomous) Erode - 638 052

NANDHA ENGINEERING COLLEGE, ERODE - 638 052

(An Autonomous Institution, Affiliated to Anna University Chennai and
approved by AICTE New Delhi)

Minutes of 7th Board of Studies Meeting (BoS) held on 29.12.2018

The 7th Board of Studies (BoS) meeting was held on 29.12.2018 by 10.00 am at Board Room, Nandha Engineering College, Erode - 52. The members attended the meeting are given in **Annexure I**.

Dr. M. Easwaramoorthi, Chairman (BOS) and Professor & Dean, Mechanical Engineering chaired the meeting, welcomed all the members to the seventh BoS meeting and introduced the members of BoS. After the brief introduction, the agenda items listed below were taken up for discussion and the following resolutions were passed.

AGENDA	
Item – 7.01	To review Action Taken Report (ATR) on 6 th BoS meeting minutes of Mechanical Engineering held on 05.05.2018
Item – 7.02	To review Action Taken Report (ATR) on 6 th Academic Council meeting minutes
Item – 7.03	To review the Curriculum and Syllabi (under regulations R15 and R17)
Item – 7.04	To review and approve the syllabus of additional professional elective course under Regulation R15 for the batch of students admitted in B.E., Mechanical Engineering programme from the year 2015 - 16 onwards (ratification)
Item – 7.05	To review and approve the curriculum & syllabi of 5 th to 8 th semesters under Regulation R17 (CBCS) for the batch of students admitted in B.E., Mechanical Engineering programme from the year 2017 - 18 onwards
Item – 7.06	To review and approve the syllabi of Professional Specific Electives (PSE) under Regulation R17 (CBCS) for the batch of students admitted in B.E., Mechanical Engineering programme from the year 2017 - 18 onwards
Item – 7.07	To review and approve the syllabi of Open electives (OE) under Regulation R17 (CBCS) for the batch of students admitted in B.E., Mechanical Engineering programme
Item – 7.08	To approve One Credit Courses (R17 regulation)
Item – 7.09	To approve panel of Examiners for question paper setting, valuation and laboratory examinations
Item – 7.10	To approve the service course for other programmes (R17 regulation)
	Any other matter

The proceedings of BoS started. The discussions and resolutions are recorded as follows:

Item – 7.01	To review Action Taken Report (ATR) on 6 th BoS meeting minutes of Mechanical Engineering held on 05.05.2018 (Annexure II)	
Discussion	Dr.M.Nataraj (GCT) insisted to conduct 10 days induction program for first year students	Dr.M.Easwaramoorthi explained that the induction program had been conducted to students as per AICTE norms
Resolution	Resolved to approve the ATR of 6 th BoS meeting.	
Item – 7.02	To review Action Taken Report (ATR) on 6 th Academic Council meeting minutes (Annexure - III)	
Discussion	The ATR of 6 th Academic Council meeting were reviewed. The members have appreciated the efforts taken to implement the suggestions.	
Resolution	Resolved to approve the ATR of 6 th Academic Council meeting.	
Item – 7.03	To review the Curriculum and Syllabi (under regulations R15 and R17)	
Discussion & Resolution	Appreciated the changes and updation made in curricula and syllabi as per recent requirements	
Item – 7.04	To review and approve the syllabus of additional professional elective course under Regulation R15 for the batch of students admitted in B.E., Mechanical Engineering programme from the year 2015 - 16 onwards (ratification)	
Discussion	<u>Professional Elective course: New Product Development</u> Dr. M.Elangovan (Amritha) suggested to ensure the contents with reference to textbook on "Product Design and Development" by Ulrich and Eppinger	✓ Considered
Resolution	Resolved to approve the syllabus of additional professional elective course under Regulation R15 for the batch of students admitted in B.E., Mechanical Engineering programme	
Item – 7.05	To review and approve the curriculum & syllabi of 5 th to 8 th semesters under Regulation R17 (CBCS) for the batch of students admitted in B.E., Mechanical Engineering programme from the year 2017 - 18 onwards	
	<u>5th Semester:</u> <u>Course-1: Fluid Power Systems</u> No comments	
	<u>Course-2: Dynamics of Machinery Laboratory</u> No comments	
	<u>Course-3: Strength of Materials</u> No comments	

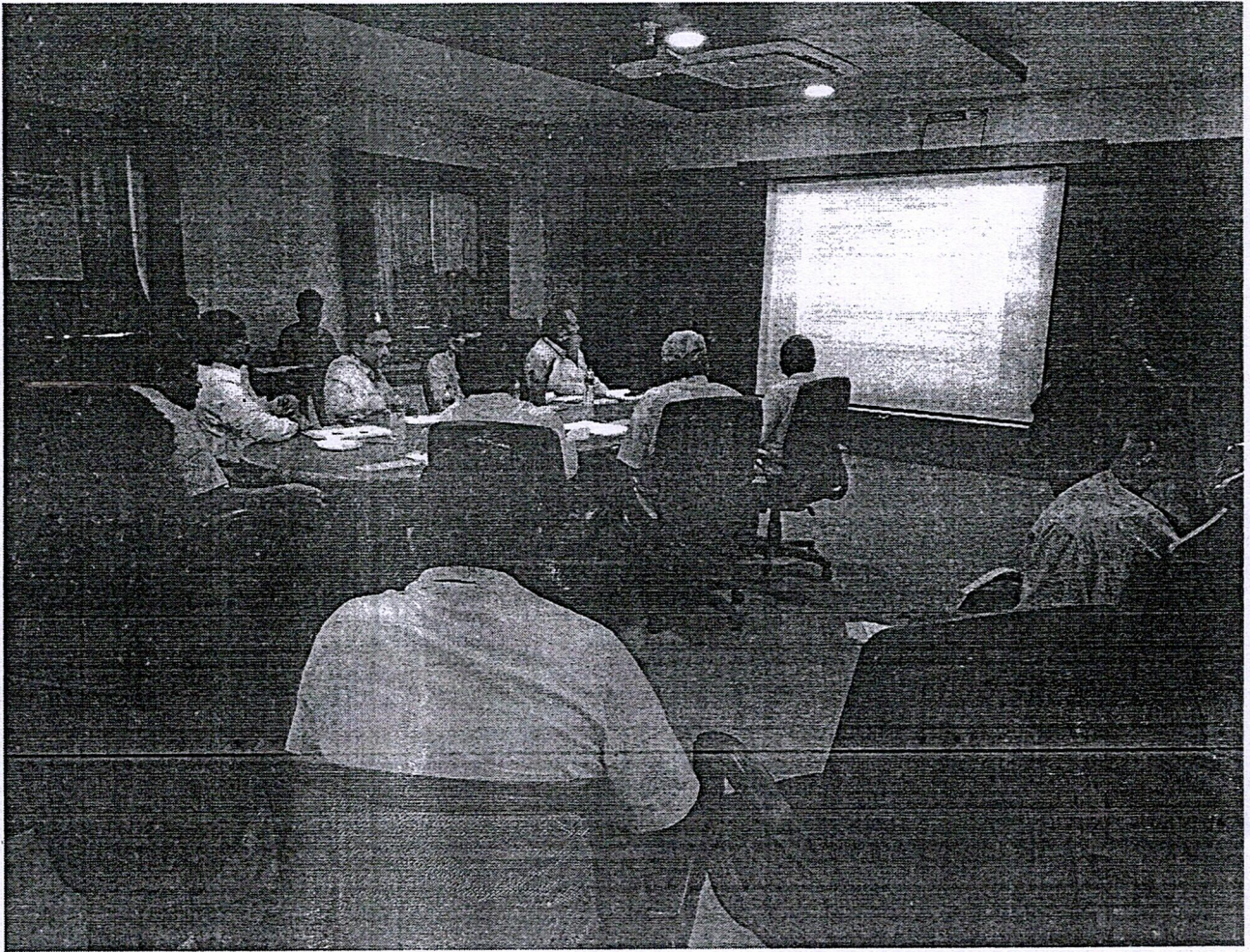
Resolution	Resolved to approve the curriculum & syllabi of 5 th to 8 th semesters under Regulation R17 (CBCS) for the batch of students admitted in B.E., Mechanical Engineering programme	
Item – 7.06	Chairman BoS has presented the curricular gaps suggested by the industry and academic experts. (a) New Product Development, (b) Solar Thermal Systems, (c) Renewable Sources of Energy, (d) Entrepreneurship Development, (e) Artificial Intelligence and Neuro-Fuzzy Theory. To review and approve the syllabi of Professional Specific Electives (PSE) under Regulation R17 (CBCS) for the batch of students admitted in B.E., Mechanical Engineering programme from the year 2017- 18 onwards	
Discussion	<u>Programme Specific Electives:</u> <u>Course-1: Tribology</u> Dr.M.Nataraj (GCT) suggested to <ul style="list-style-type: none"> • Modify Unit-I title as Surface Topography • Modify the contents of Unit 5 	✓ Modified and Updated ✓ Modified and Updated
	<u>Course-2: Design for Manufacture and Assembly</u> No comments	
	<u>Course-3: Fuels and Combustion</u> Dr.R.B.Anand (NIT Trichy) suggested to include a book on “An Introduction to Combustion: Concepts and Applications” by Stephen Turns in Reference books	✓ Included
	<u>Course-4: Internal Combustion Engine</u> Dr.R.B.Anand (NIT Trichy) suggested to <ul style="list-style-type: none"> • Modify the title of Unit-IV to Study of Fuels and modify the contents accordingly • Include a book on “Internal Combustion Engines” by Mathur and Sharma in Text books • Include a book on “Internal Combustion Engine Fundamentals” by John Heywood in Reference books 	✓ Modified and Updated ✓ Modified ✓ Included
	<u>Course-5: Gas Dynamics and Jet Propulsion</u> Dr.R.B.Anand (NIT Trichy) suggested including a book on “Gas Dynamics” by Radhakrishnan in Reference books	✓ Included
	<u>Course-6: Computational Fluid Dynamics</u> Dr.Khader Basha (CVRDE) suggested giving introduction about some commercial software in Unit-V. Dr.R.B.Anand (NIT Trichy) suggested to include a book on “Computational Fluid Mechanics and Heat Transfer” by Anderson and Tannehill in Reference books	✓ Included ✓ Included

<p><u>Course-7: Solar Thermal Systems</u> No comments</p>	
<p><u>Course-8: Automobile Engineering</u> Dr.M.Nataraj (GCT) suggested to modify Unit-I title as Vehicle Structure and Engine Components Dr.R.B.Anand (NIT Trichy) suggested including a book on "Automobile Engineering" by Kirpal Singh in Textbooks. Dr.R.B.Anand (NIT Trichy) suggested including a book on "Automobile Engineering" by Newton and Steels in Reference books.</p>	<p>✓ Modified ✓ Included ✓ Included</p>
<p><u>Course-9: Welding Engineering</u> Dr.M.Nataraj (GCT) and Dr.R.B.Anand (NIT Trichy) suggested to modify title of Unit-I as Fundamentals of Welding Technology</p>	<p>✓ Modified</p>
<p><u>Course-10: Non Destructive Testing and Evaluation</u> Dr.M.Nataraj (GCT) and Dr.R.B.Anand (NIT Trichy) suggested modifying title as Introduction to NDT and Visual Inspection</p>	<p>✓ Modified</p>
<p><u>Course-11: Operations Research</u> Dr.Khader Basha (CVRDE) suggested to include a book on "Industrial Engineering and Management" by O.P.Khanna in Textbooks</p>	<p>✓ Included</p>
<p><u>Course-12: New Product Development</u> Dr.M.Elangovan (Amritha) suggested to include contents related to textbook on "Product Design and Development" by Ulrich and Eppinger</p>	<p>✓ Included</p>
<p><u>Course-13: Renewable Energy Sources</u> Dr.R.B.Anand (NIT Trichy) suggested to modify the course title as Non-Conventional Energy Sources Dr.M.Nataraj (GCT) suggested to modify the title of Unit-IV as Tidal and Geothermal Energy and Dr.M.Elangovan (Amritha) suggested to keep Tidal and Geothermal Energy as Unit-V Dr.M.Elangovan (Amritha) suggested to include contents related to energy audit</p>	<p>✓ Modified ✓ Modified ✓ Already included as separate course</p>

	<p><u>Course-14: Hydraulic Embedded Systems</u> Dr.R.B.Anand (NIT Trichy) suggested to modify the course title</p>	<ul style="list-style-type: none"> ✓ Modified ✓ Since most of the contents have to be modified, the course has been decided to be placed before next BoS for approval and get updated
	<p><u>Course-15: Artificial Intelligence and Neuro-Fuzzy Theory</u> Dr.M.Elangovan (Amritha) suggested to include case studies related to Mechanical engineering</p>	<ul style="list-style-type: none"> ✓ Considered
Resolution	Resolved to approve the syllabi of Professional Specific Electives (PSE) under Regulation R17 (CBCS) for the batch of students admitted in B.E., Mechanical Engineering programme	
Item – 7.07	To review and approve the syllabi of Open electives (OE) under Regulation R17 (CBCS) for the batch of students admitted in B.E., Mechanical Engineering programme	
Discussion	<p><u>Open Electives:</u> <u>Course-1: Office Ergonomics</u> Dr.M.Nataraj (GCT) suggested to modify the course title as Engineering Ergonomics</p>	<ul style="list-style-type: none"> ✓ Modified and Updated
	<p><u>Course-2: Energy Conservation, Auditing and Management</u> Dr.R.B.Anand (NIT Trichy) suggested to modify the course title as "Energy Audit and Resource Management" Dr.M.Nataraj (GCT) suggested to remove Targeting from title of Unit-IV</p>	<ul style="list-style-type: none"> ✓ Modified and Updated ✓ Removed
Resolution	Resolved to approve the syllabi of Open electives (OE) under Regulation R17 (CBCS) for the batch of students admitted in B.E., Mechanical Engineering programme.	

Item – 7.08	To approve proposed One Credit Courses (R17 regulation)	
Discussion	• Dr.R.B.Anand (NIT Trichy) suggested to include Industrial Safety as One credit course	✓ Included
	• Dr.R.B.Anand (NIT Trichy) suggested to include Material Handling as One credit course	✓ Included
	• Dr.Khader Basha (CVRDE) suggested to include Micro Machining as One credit course	✓ Included
Resolution	Resolved to approve the proposed one credit courses	
Item – 7.09	To approve panel of Examiners for question paper setting, valuation and laboratory examinations	
Discussion	The BoS members recommended to prepare the panel of examiners based on their specialization viz., Design Engineering, Thermal Engineering, Manufacturing Engineering and Management	
Resolution	Resolved to approve the panel of Examiners for question paper setting, valuation and laboratory examinations	
Item – 7.10	To approve the service course for other programmes (R17 regulation)	
	Course 1: Engineering Mechanics for Biomedical Engineers	
Resolution	Resolved to approve the syllabus of service course under Regulation R17 (CBCS)	
Item – 7.11	Any other matter	

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



Date: 29.12.2018

M. Easwaramoorthi
29/12/18

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

N. Murthy
12/12/19