

**NANDHA ENGINEERING COLLEGE, ERODE – 638 052**  
(An Autonomous Institution, Affiliated to Anna University Chennai and  
Approved by AICTE New Delhi)

**Minutes of the 5<sup>th</sup> meeting of the Academic Council held on 16.06.2017**

<b>Name of the Body</b>	Academic Council
<b>Meeting No.</b>	05
<b>Date &amp; Time</b>	16.06.2017, 10.00 AM
<b>Venue</b>	Board Room Nandha Engineering College Erode - 638 052

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## Minutes of the Meeting - 5<sup>th</sup> Academic Council held on 16<sup>th</sup> JUNE 2017

The fifth meeting of the Academic Council was held on 16.06.2017 by 10.00 am at Board Room, Nandha Engineering College, Erode. The list of members attended the meeting is given in **Annexure I** and the following members could not attend the meeting.

- Dr. G. Nagarajan, Professor, Internal Combustion Engineering Division, Anna University, Chennai – 600 025.
- Dr. P. Anandakumar, Professor & Head, Department of Computer Technology, Madras Institute of Technology, Chromepet, Chennai – 60004.

The agenda items have been taken for discussion and the Minutes of the Meeting are as follows:

Item 5.01	Welcome & Introduction of Members.
	Dr. N. Rengarajan, Principal & Chairperson of the Academic Council welcomed all the members and expressed his gratitude to the external members of the Academic Council for making it convenient to attend the meeting. He introduced the new members of 5 <sup>th</sup> Academic council, Dr. Kurian Joseph (Anna University, Chennai), Mr. S. Krishnan (Ashok Leyland), Mr. K.V.Srinivasan (Tech Mahindra), Dr. P. R. Thyla (PSG), Dr. S. J. Thiruvengadam (TCE), Dr. K. Balanaga Gurunathan (Alliance University), Dr. A. Kannammal (CIT) and requested internal members to introduce themselves.
Item 5.02	To approve ✓ Minutes of 4 <sup>th</sup> meeting of Academic Council held on 25.05.16 & report on action taken [Annexure – II]. ✓ Minutes of 5 <sup>th</sup> meeting of BoS of all the programmes of study.
Discussion	✓ Dr. N. Rengarajan, Principal & Chairman of the Academic Council read out the minutes of the 4 <sup>th</sup> meeting of Academic Council held on 25.05.16 and action taken on the suggestions given in the previous meeting (4 <sup>th</sup> Academic Council). The members appreciated the efforts taken by the college to implement the suggestions. ✓ Minutes of 5 <sup>th</sup> meeting of BoS of all the programmes of study were placed for consideration and approval.
Resolution	✓ Noted the contents of the minutes of the 4 <sup>th</sup> meeting of the Academic Council held on 25.05.16 and resolved to approve the same. Action Taken Report (ATR) of the last academic council was also noted by the members and approved the ATR. ✓ Academic council approved the minutes of 5 <sup>th</sup> meeting of BoS of all the programmes of study.
Item 5.03	To approve • Amendments to the Regulations 2013 [R13] ✓ Clause 17.2 FIRST CLASS (Regular) ✓ Clause 18.2 FIRST CLASS (Lateral Entry) • Amendments to the Regulations 2015 [R15] • New Regulation R17 (all UG and PG programmes) for the students admitted from 2017-18 onwards
Discussion	Dr. M. Eswaramoorthi, Prof. & Dean, Mechanical Engineering presented the contents of

Amendments to the Regulations R13, R15 and New Regulations R17 of UG and New Regulations R17 for PG programmes.

Amendments in Regulation R13: Members appreciated the efforts taken by the college in line with Anna university Chennai.

Amendments in Regulation R15:

- Mr. S. Krishnan (Ashok Leyland) and Dr. Kurian Joseph opined that there should not be any restriction on offering elective course. Dr. Kurian Joseph stressed the need for giving more opportunity to the students to opt elective courses from the list of electives approved by BoS.
- Dr. S. J. Thiruvengadam (TCE) expressed his views on elective courses and suggested giving more flexibility to the students while choosing courses like offering minimum 5 to maximum 7 Professional electives and minimum 2 to maximum 4 open elective courses subjected to maximum of 9 elective courses.
- Dr. Kurian Joseph commented on assessment part of online certified courses and revealed the challenges in implementation. Proposed to have a committee to monitor course registration and assessment. Further, appreciated the effort taken by college to change the letter of grade in line with UGC and Anna University guidelines.
- Dr. P. R. Thyla (PSG) has put forth the opinion of giving opportunity to study additional open elective courses apart from minimum specified courses. The credits earned may be counted over and above the credits specified by the respective programmes.

New Regulation R17 (UG) & PG:

- Dr. S. J. Thiruvengadam (TCE) suggested to see the possibility of increasing the minimum CGPA of 7.5 to 8 for the self-study course.
- Mr. K. V. Srinivasan (Tech Mahindra) insisted to give more importance to student's projects and assessment part of the projects. He also stressed that students need to test the projects and interpret results.
- Mr. S. Krishnan (Ashok Leyland) expressed his views on student's projects and suggested that preparation of course material for an elective course could be considered as a project work equivalent to regular projects.
- Dr. A. Kannammal (CIT) suggested to extend the add/drop course features from 3<sup>rd</sup> semester onwards.
- Dr. Kurian Joseph suggested
  - ✓ To have two separate clauses in 7.5 (regulation R17) for reappearance and repeat registration.
  - ✓ Recommended to use repeat or redo in all places uniformly
  - ✓ Clarified that No redo or repeat course for Absentees
  - ✓ To follow Anna University Regulations for PCD courses.
- Dr. S. J. Thiruvengadam (TCE) opined to extend the Higher Order Thinking (HoT) concept to all courses.
- Academic council members expressed their views on Redo of laboratory courses and suggested to take decision by referring leading Autonomous Colleges.
- Academic council has discussed the proposal of offering theory and laboratory as integrated course by few programmes and suggested the following weightage for theory


	<p>and laboratory in Continuous Assessment (CA) and End semester (ES) Assessment.</p> <ul style="list-style-type: none"> <li>✓ CA - 40% for theory and 50% for laboratory courses</li> <li>✓ ES - 60% for theory and 50% for laboratory courses</li> <li>• Dr. S. J. Thiruvengadam (TCE) suggested changing the terminology of Project phase -1 &amp; phase - 2 as Project -1 &amp; Project -2.</li> <li>• Dr. Kurian Joseph suggested to refer Anna University guidelines on PG programme Part time mode of study.</li> </ul>
Resolution	After discussion at length it was resolved to incorporate the suggestions to the amendments of R13, R15 and new regulations R17.
Item 5.04	Presentation of curriculum and syllabi approved by BoS (academic year 2017-18)
5.04.01	<p>B.E. Civil Engineering:</p> <ul style="list-style-type: none"> <li>• 5<sup>th</sup> and 6<sup>th</sup> semesters (R15)</li> </ul> <p>M.E. Structural Engineering</p> <ul style="list-style-type: none"> <li>• 1<sup>st</sup> to 4<sup>th</sup> semesters (R17)</li> </ul>
Discussion	<p>Dr. E.K. Mohanraj, Prof. &amp; Dean, Civil Engineering, presented the curriculum and syllabi.</p> <ul style="list-style-type: none"> <li>• Dr. Kurian Joseph (AU) suggested modifying the contents of Environmental Engineering course by referring Environmental Engineering 1 &amp; 2 courses syllabi.</li> <li>• Dr. S. J. Thiruvengadam (TCE) opined to check and modify the course outcomes of all courses.</li> </ul>
Resolution	After discussion at length it was resolved to approve with changes suggested by the experts.
5.04.02	<p>B.E. Computer Science and Engineering</p> <ul style="list-style-type: none"> <li>• 5<sup>th</sup> and 6<sup>th</sup> semesters (R15)</li> </ul> <p>M.E. Computer Science and Engineering</p> <ul style="list-style-type: none"> <li>• 1<sup>st</sup> to 4<sup>th</sup> semesters (R17)</li> </ul>
Discussion	<p>Dr. S. Arumugam, Professor, Computer Science &amp; Engineering presented the curriculum and syllabi.</p> <ul style="list-style-type: none"> <li>• Mr. K.V. Srinivasan (Tech Mahindra) suggested to add recent topics as per the requirements of industries for the course C# &amp; .Net Framework in 6<sup>th</sup> semester and inclusion of titles related to AngularJS.</li> <li>• Mr. S. Krishnan (Ashok Leyland) and Dr. K. Balanaga Gurunathan opined to merge unit 3 &amp; 4 as a single unit in Engineering Economics and Financial Accounting course. 5<sup>th</sup> unit may be split into two units by adding important topics relevant to industry like accounting standards, software related to taxation and name it as unit 4 &amp; 5.</li> <li>• Mr. S. Krishnan (Ashok Leyland) suggested giving exposure in using MATLAB software and mobile repair hardware for CSE/IT programmes</li> </ul>
Resolution	Resolved to approve the changes suggested by the experts
5.04.03	<p>B.E. Electronics and Communication Engineering</p> <ul style="list-style-type: none"> <li>• 5<sup>th</sup> and 6<sup>th</sup> semesters (R15)</li> </ul> <p>M.E. VLSI Design</p> <ul style="list-style-type: none"> <li>• 1<sup>st</sup> to 4<sup>th</sup> semesters (R17)</li> </ul>

	Discussion	<p>Dr. C. N. Marimuthu, Prof. &amp; Dean, Electronics and Communication Engineering briefed the contents of curriculum and syllabi.</p> <p>Dr. S. J. Thiruvengadam (TCE) suggested adding</p> <ul style="list-style-type: none"> <li>• Radar and Navigation, Sensors, actuators &amp; Transducers and Wireless Communication courses.</li> <li>• Remove Advanced Microprocessors and Microcontrollers course in M.E., VLSI Design programme.</li> </ul> <p>Mr. S. Krishnan (Ashok Leyland) opined</p> <ul style="list-style-type: none"> <li>• to impart training on assembly of PCB for UG students and suggested including contents on Manufacturing in VLSI programme.</li> </ul>
	Resolution	Resolved to approve the curriculum and syllabi with necessary changes
	5.04.04	<p>B.E. Electrical and Electronics Engineering, &amp; Electronics and Instrumentation Engineering:</p> <ul style="list-style-type: none"> <li>• 5<sup>th</sup> and 6<sup>th</sup> semesters (R15)</li> </ul> <p>M.E. EMBEDDED SYSTEM TECHNOLOGIES</p> <ul style="list-style-type: none"> <li>• 1<sup>st</sup> to 4<sup>th</sup> semesters (R17)</li> </ul>
	Discussion	<p>Dr. A. Satheesh, Prof. &amp; Dean, presented the contents of curriculum and syllabi.</p> <p>Mr. S. Krishnan (Ashok Leyland) suggested to include</p> <ul style="list-style-type: none"> <li>• Cable and wiring, Industrial Automation in theory course, High tension &amp; Low tension topics in practical course.</li> <li>• Electric Vehicles and fast battery charging techniques as a course</li> </ul>
	Resolution	Resolved to approve the curriculum and syllabi with necessary changes
	5.04.05	<p>B.Tech. Information Technology</p> <ul style="list-style-type: none"> <li>• 5<sup>th</sup> and 6<sup>th</sup> semesters (R15)</li> </ul>
	Discussion	<p>Dr. C. Siva, Professor presented the contents of curriculum and syllabi.</p> <ul style="list-style-type: none"> <li>• Dr. S. J. Thiruvengadam (TCE) asked the relevance of having Signal processing course in 5<sup>th</sup> semester under R15 regulations and highlighted the discontinuity of further courses relevant to signal processing. Also suggested to include Analog and Digital Communication course in the 6<sup>th</sup> semester.</li> <li>• Dr. S. J. Thiruvengadam (TCE) suggested to include IoT course in R15</li> </ul>
	Resolution	Resolved to approve the curriculum and syllabi with necessary changes
	5.04.06	<p>B.E. Mechanical Engineering:</p> <ul style="list-style-type: none"> <li>• 5<sup>th</sup> and 6<sup>th</sup> semesters (R15)</li> </ul> <p>M.E. Engineering Design</p> <ul style="list-style-type: none"> <li>• 1<sup>st</sup> to 4<sup>th</sup> semesters (R17)</li> </ul>
	Discussion	<p>Dr. M. Eswaramoorthi, Prof. &amp; Dean, Mechanical Engineering presented the contents of curriculum and syllabi</p> <p>UG programme:</p> <ul style="list-style-type: none"> <li>• Dr. P. R. Thyla (PSG) opined to include Industrial Engineering and Management course as core instead of elective. Also recommended to have data analysis and interpretation kind of experiments in</li> </ul>

		<p>Mechatronics lab as suggested by Mr. S. Krishnan (Ashok Leyland). She appreciated having elective courses under different domains like Design, Manufacturing, Thermal Engineering etc.</p> <ul style="list-style-type: none"> <li>• Dr. Kurian Joseph (AU) suggested having Engineering Mechanics course in the second semester instead of 3<sup>rd</sup> semester.</li> </ul> <p>PG programme:</p> <ul style="list-style-type: none"> <li>• Dr. P. R. Thyla (PSG) clarified the contents of Engineering Fracture Mechanics course and opined to include Design and Failure Analysis course instead of Engineering Fracture Mechanics. Also recommended to add Tribology and a laboratory component for Vibration.</li> </ul>
	Resolution	Resolved to approve the curriculum and syllabi with necessary changes
	5.04.07	<ul style="list-style-type: none"> <li>• S &amp; H - R15 <ul style="list-style-type: none"> <li>▪ 5<sup>th</sup> semester-Soft Skills Aptitude and Reasoning - I</li> <li>▪ 6<sup>th</sup> semester-Soft Skills Aptitude and Reasoning-II</li> <li>▪ 5<sup>th</sup> semester B.E. (CSE) Discrete Mathematics, B.Tech. (IT) Numerical Methods</li> <li>▪ Open Elective courses</li> <li>▪ Language Electives (Hindi, German &amp; Japanese)- ratified by BoS</li> </ul> </li> <li>• S &amp; H - R17 - Curriculum &amp; Syllabi of 1<sup>st</sup> and 2<sup>nd</sup> semesters (R17) for all UG programmes</li> </ul>
	Discussion	<p>Dr. M. Chandrasekaran, Dean, S &amp; H presented the curriculum and syllabi</p> <ul style="list-style-type: none"> <li>• Mr. K.V. Srinivasan (Tech Mahindra) expressed his views on Statics for Engineers course offered under open elective category and suggested to modify the contents.</li> <li>• Dr. P. R. Thyla (PSG) suggested to check the open elective course content and relevance to different programmes.</li> </ul>
	Resolution	Resolved to approve the changes.
	5.04.08	<p>Master of Computer Applications (MCA) Program</p> <ul style="list-style-type: none"> <li>• 5<sup>th</sup> &amp; 6<sup>th</sup> semesters - R15</li> <li>• 1<sup>st</sup> &amp; 2<sup>nd</sup> semesters - R17</li> </ul>
	Discussion	<p>Dr. C. Siva, Professor presented the contents of curriculum and syllabi.</p> <p><u>R15:</u> No comments</p> <p><u>R17:</u></p> <ul style="list-style-type: none"> <li>• Dr. A. Kannammal suggested <ul style="list-style-type: none"> <li>✓ to add Web Server Administration course</li> <li>✓ to include mini project in 4<sup>th</sup> semester</li> <li>✓ to rename Web Application Development course as Web Programming and suggested to offer the same in 4<sup>th</sup> semester</li> <li>✓ offer one credit courses</li> <li>✓ to increase number of elective courses</li> </ul> </li> <li>• Mr. K.V. Srinivasan (Tech Mahindra) opined that MCA students may be given options to select electives from MBA programme.</li> <li>• Mr. S. Krishnan (Ashok Leyland) suggested giving credits to Functional English course.</li> </ul>
	Resolution	Resolved to approve the changes.

	5.04.08	Master of Business Administration (MBA) <ul style="list-style-type: none"> <li>• 1<sup>st</sup> to 4<sup>th</sup> semesters – R17</li> </ul>
	Discussion	Prof. N. Devaraj, Head, MBA presented the contents of curriculum and syllabi <ul style="list-style-type: none"> <li>• Dr. K. Balanaga Gurunathan (Alliance University) recommended to include Financial Modeling course to enhance the practical learning and asked to check the guidelines of Self-study Electives in R17.</li> <li>• Mr. S. Krishnan opined that adding accounting standards and taxation topics in Engineering Economics and Financial Accounting course would be beneficial to students studying B.E. (CSE) &amp; B.Tech (IT) programmes.</li> </ul>
	Resolution	Resolved to approve the changes.
Item 5.05	Question paper pattern (R17)	
Discussion	Dr. M. Eswaramoorthi, Prof. & Dean, Mechanical Engineering presented the Question paper pattern for Regulation R17. <ul style="list-style-type: none"> <li>✓ After deliberations, academic council members suggested to have three or four patterns of question papers based on the course nature and include one compulsory question.</li> </ul>	
Resolution	Resolved to approve the question paper pattern	
Item 5.06	<ul style="list-style-type: none"> <li>• Presentation of results - UG programmes <ul style="list-style-type: none"> <li>✓ 2015-16 Even semester (1, 2 &amp; 3 years)</li> <li>✓ 2016-17 Odd semester (1,2 3 &amp; 4 years)</li> </ul> </li> <li>• Presentation of results - PG programmes <ul style="list-style-type: none"> <li>✓ 2015-16 Even semester (1st &amp; 2nd years)</li> <li>✓ 2016-17 Odd semester (1st &amp; 2nd years)</li> </ul> </li> <li>• Report of Malpractice committed by the students in internal and end semester examinations.</li> <li>• List of debarred and rejoined students for UG &amp; PG programmes</li> </ul>	
Discussion	Dr. S. Arumugam, Professor & CoE presented the results, Report of Malpractice and list of debarred students <ul style="list-style-type: none"> <li>• Academic council members suggested to highlight the result pulling courses separately in the presentation.</li> </ul>	
Resolution	Reviewed & Recorded	
Item 5.07	Any other items : Nil	
Item 5.08	VOTE OF THANKS	
	Dr. E. K. Mohanraj, Member Secretary proposed the vote of thanks.	

Date: 16.06.2017

  
**Dr. N. Rengarajan**  
 (Chairman, Academic Council / Principal)