

# NANDHA ENGINEERING COLLEGE, ERODE – 638 052

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

## Minutes of the 6<sup>th</sup> meeting of the Academic Council held on 23.06.2018

<b>Name of the Body</b>	Academic Council
<b>Meeting No.</b>	06
<b>Date &amp; Time</b>	23.06.2018, 10.00 AM
<b>Venue</b>	Board Room Nandha Engineering College 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 the Meeting - 6<sup>th</sup> Academic Council held on 23<sup>th</sup> JUNE 2018

The sixth meeting of the Academic Council was held on 23.06.2018 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.

- Mr. K. V. Srinivasan, Associate Vice President, Travel & Logistics Professor, Tech Mahindra Chennai
- Dr. P. R. Thyla, Professor and Head, Department of Mechanical Engineering, PSG College of Technology, Coimbatore – 641 004
- Dr. A. Kannammal, Professor, Department of Computer Applications MCA, Coimbatore Institute of Technology, Coimbatore
- 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 6.01	Welcome & Introduction of Members.
	Dr. N. Rengarajan, Principal & Chairperson of the Academic Council welcomed all the members, introduced the external members and requested internal members to introduce themselves. He briefed the Agenda items.
Item 6.02	To approve ✓ Minutes of 5 <sup>th</sup> meeting of Academic Council held on 16.06.17 & report on action taken [Annexure – II]. ✓ Minutes of 6 <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 5 <sup>th</sup> meeting of Academic Council held on 16.06.17 and action taken on the suggestions given in the previous meeting (5 <sup>th</sup> Academic Council). The members appreciated the efforts taken by the college to implement the suggestions. ✓ Minutes of 6 <sup>th</sup> meeting of BoS of all the programmes of study were placed for approval.
Resolution	✓ Noted the contents of the minutes of the 5 <sup>th</sup> meeting of the Academic Council held on 16.06.17 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 and suggested to follow the assessment pattern for online courses as prescribed in the Regulation R17. ✓ Academic council approved the minutes of 6 <sup>th</sup> meeting of BoS of all the programmes of study.
Item 6.03	<ul style="list-style-type: none"><li>• New Program Bio-Medical Engineering introduced during 2018-19 with an intake of 60 students</li><li>• AICTE Model Curriculum and syllabi – scope of implementation in autonomous college</li><li>• Contact hours &amp; Credits for Tutorial</li><li>• Mandatory courses</li><li>• Maximum credits (160)</li><li>• Virtual Laboratories</li></ul>

	<ul style="list-style-type: none"> <li>• Awarding Honours / Minor Engineering specialization for additional 20 credits.</li> <li>• MHRD – Launching of Swachh Bharat summer internship scheme and award of credits</li> </ul>
Discussion	<p>Principal informed about the introduction of new program Bio-Medical Engineering with an intake of 60 students from the academic year 2018-19.</p> <p>Dr. N. Rengarajan, Principal highlighted the important contents of AICTE model curriculum and requested the external member's opinion.</p> <p>Dr. M. Easwaramoorthi, Dean (Autonomous) presented the salient features of AICTE model curriculum.</p> <p>Dr. Kurian Joseph (AU) suggested to plan for conducting Induction Program effectively as per the AICTE guidelines.</p> <p>Dr. G. Nagarajan (AU) suggested giving extra credits for Swachh Bharat summer internship scheme without considering for CGPA calculations.</p>
Resolution	<ul style="list-style-type: none"> <li>✓ Academic council members noted the introduction of new course Bio-Medical Engineering from the academic year 2018-19</li> <li>✓ After discussion at length it was resolved to incorporate the feasible AICTE guidelines/courses. Further, it was decided to continue with the 6<sup>th</sup> BoS approved curriculum and syllabi, and think of going for new regulations if required to incorporate all feature of AICTE model curriculum 2018 after seeing the parent University and other leading colleges.</li> </ul>
Item 6.04	<p>Amendments in Regulation R17:</p> <ul style="list-style-type: none"> <li>• Credits for Research Attachment program (RAP) undergone at foreign and leading universities</li> </ul>
Discussion	<p>Dr. G. Nagarajan (AU) suggested giving credits for the RAP kind of programmes if it is not part of student's project. Dr. Kurian Joseph (AU) opined to give credit for RAP if it is done during the summer or winter vacation as like inplant training at industries.</p>
Resolution	Resolved to follow the opinions of BoS members.
Item 6.05	Presentation of curriculum and syllabi approved in the 6 <sup>th</sup> BoS by Chairman BoS
6.05.01	B.E. Agriculture Engineering - 3 <sup>rd</sup> to 8 <sup>th</sup> semesters (R17)
Discussion	<ul style="list-style-type: none"> <li>✓ Dr. V. Geetha, HoD, presented the curriculum for all 8 semesters and syllabi for 3<sup>rd</sup> &amp; 4<sup>th</sup> semesters.</li> <li>✓ Dr. G. Nagarajan (AU) suggested to change the course title "Farm Tractors" as "Farm Tractors System"</li> <li>✓ Dr. Kurian Joseph (AU) proposed to include a new elective course on "Sustainable Agriculture".</li> <li>✓ Mr. S. Krishnan (Ashok Leyland) suggested to see the scope of adding industry internship as a course in the curriculum. Further, clarified the availability of topics like in-house farming equipments, Water Conservation and Unmanned Tractors in the proposed syllabi.</li> </ul>
Resolution	Resolved to approve changes suggested by the expert members.
6.05.02	<p>B.E. Civil Engineering:</p> <ul style="list-style-type: none"> <li>✓ 7<sup>th</sup> and 8<sup>th</sup> semesters (R15)</li> <li>✓ 3<sup>rd</sup> to 8<sup>th</sup> semesters (R17)</li> </ul>
Discussion	Dr. E.K. Mohanraj, Prof. & Dean, Civil Engineering, presented the curriculum and syllabi.

	<ul style="list-style-type: none"> <li>✓ Dr. Kurian Joseph (AU) clarified the assessment pattern of embedded courses.</li> <li>✓ Dr. S. J. Thiruvengadam (TCE) opined to check PEO and include 2 to 4 PSO.</li> </ul>
Resolution	Resolved to approve changes
6.05.03	<p>B.E. Computer Science and Engineering</p> <ul style="list-style-type: none"> <li>✓ 7<sup>th</sup> and 8<sup>th</sup> semesters (R15)</li> <li>✓ 3<sup>rd</sup> to 8<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. S. Krishnan (Ashok Leyland) suggested to add Block Chain, Cryptoeconomics, Quantum Computing and Immersive Media.</li> </ul>
Resolution	Resolved to approve the changes suggested by the experts.
6.05.04	<p>B.E. Electronics and Communication Engineering:</p> <ul style="list-style-type: none"> <li>✓ 7<sup>th</sup> and 8<sup>th</sup> semesters (R15)</li> <li>✓ 3<sup>rd</sup> to 8<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> <ul style="list-style-type: none"> <li>✓ Dr. S. J. Thiruvengadam (TCE) suggested adding tutorial component for few courses to improve the problem solving skills and introduce laboratory based theory courses (embedded).</li> <li>✓ Dr. Kurian Joseph (AU) clarified the contents of Electronic Devices course in 1<sup>st</sup> semester.</li> </ul>
Resolution	Resolved to approve the curriculum and syllabi with necessary changes
6.05.05	<ul style="list-style-type: none"> <li>▪ B.E. Electrical and Electronics Engineering</li> <li>▪ Electronics and Instrumentation Engineering</li> <li>✓ 7<sup>th</sup> and 8<sup>th</sup> semesters (R15)</li> <li>✓ 3<sup>rd</sup> to 8<sup>th</sup> semesters (R17)</li> </ul>
Discussion	Dr. A. Satheesh, Prof. & Dean, presented the contents of curriculum and syllabi.
Resolution	Resolved to approve the curriculum and syllabi
6.05.06	<p>B.E. Mechanical Engineering:</p> <ul style="list-style-type: none"> <li>✓ 7<sup>th</sup> and 8<sup>th</sup> semesters (R15)</li> <li>✓ 3<sup>rd</sup> to 8<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>Dr. Kurian Joseph (AU) suggested to change the title Advance Automobile Engineering.</p> <p>Dr. S. J. Thiruvengadam (TCE) and Dr. G. Nagarajan (AU) have suggested to avoid words like advanced, recent, etc., in the course title.</p>
Resolution	Resolved to approve the curriculum and syllabi
6.05.07	<p>B.Tech. Chemical Engineering</p> <ul style="list-style-type: none"> <li>✓ 3<sup>rd</sup> to 8<sup>th</sup> semesters (R17)</li> </ul>

Discussion	Prof. G. Mohankumar, HoD, Chemical Engineering presented the contents of curriculum and syllabi. Mr. S. Krishnan (Ashok Leyland) suggested to add topics like Plastics, Coatings, Paint, Effluent Treatment, Battery and Refractory.
Resolution	Resolved to approve the curriculum and syllabi
6.05.08	B.Tech. Information Technology
Discussion	Dr. C. Siva, Professor presented the contents of curriculum and syllabi. • Dr. S. J. Thiruvengadam (TCE) asked the relevance of having Signal processing course in 5 <sup>th</sup> semester, connectivity of its contents in the subsequent semesters and content of syllabus relevant to IT.
Resolution	Resolved to approve the curriculum and syllabi
6.05.09	S & H ✓ R17 – Syllabi from 3 <sup>rd</sup> to 5 <sup>th</sup> Semesters for all UG programmes ✓ Open electives (Physics, Chemistry, English and Maths)
Discussion	Dr. M. Chandrasekaran, Dean, S & H presented the contents of curriculum and syllabi. Mr. S. Krishnan (Ashok Leyland) suggested to add recently available tools in Statistics course.
Resolution	Resolved to approve the curriculum and syllabi with necessary changes
6.05.10	Master of Computer Applications (MCA) Program ✓ R17- 3 <sup>rd</sup> to 6 <sup>th</sup> semesters
Discussion	Dr. C. Siva, Professor presented the contents of curriculum and syllabi. ✓ Mr. S. Krishnan (Ashok Leyland) proposed to add “Entrepreneurship” as an Elective course. ✓ Dr. K. Balanaga Gurunathan clarified the application Accounting and Financial Management course and suggested to have exercises on accounting using excel in Office Automation laboratory
Resolution	Resolved to approve the changes.
6.05.11	Master of Business Administration (MBA) ✓ R17 Changes in syllabi
Discussion	Prof. N. Devaraj, Head, MBA presented the changes in the syllabi contents ✓ Dr. Kurian Joseph (AU) clarified the difference between Sectoral and Functional specialization. ✓ 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. ✓ Mr. S. Krishnan suggested adding Strategic Management in Functional specialization and seeing the scope of implementing model investment plan on trail basis as followed in Amity Business School..
Resolution	Resolved to approve the changes.
Item 6.06	Approval of mandatory courses syllabi as per AICTE model curriculum
Discussion	Dr. M. Easwaramoorthi, Prof. & Dean, Mechanical Engineering presented the syllabi of following mandatory courses (non credit) ✓ Induction Program

	<ul style="list-style-type: none"> <li>✓ Environmental Sciences</li> <li>✓ Indian Constitution</li> <li>✓ Essence of Indian Traditional Knowledge</li> </ul> <p>It is decided to follow the existing status quo for Environmental Sciences course since it was approved as a credit course in the 5<sup>th</sup> academic council and offered to few programmes.</p>
Resolution	Resolves to approve the syllabi
Item 6.07	<p>Presentation of results - UG programmes</p> <ul style="list-style-type: none"> <li>✓ 2016-17 Even semester (1 to final year)</li> <li>✓ Degree awarded (FC, FCD, year wise, degree wise, program wise - 2017 passed out)</li> <li>✓ 2017-18 Odd semester (1,2 3 &amp; 4 years)</li> </ul> <p>Presentation of results - PG programmes</p> <ul style="list-style-type: none"> <li>✓ 2016-17 Even semester (1<sup>st</sup> &amp; 2<sup>nd</sup> years)</li> <li>✓ 2017-18 Odd semester (1<sup>st</sup> &amp; 2<sup>nd</sup> years)</li> </ul>
	<ul style="list-style-type: none"> <li>✓ Report of Malpractice committed by the students in internal and end semester examinations.</li> </ul>
	<ul style="list-style-type: none"> <li>✓ R15: List of debarred and rejoined students for UG &amp; PG programmes</li> <li>✓ R17: Attendance shortage below 64%</li> </ul>
	<ul style="list-style-type: none"> <li>✓ Maximum duration for maintaining answer script - end semester and continuous assessment examination</li> </ul>
	<ul style="list-style-type: none"> <li>✓ Details of one credit and online courses studied</li> </ul>
Discussion	<p>Dr. S. Arumugam, Professor &amp; CoE presented the results, Report of Malpractice, list of debarred students and shortage of attendance</p> <ul style="list-style-type: none"> <li>✓ All members have suggested to keep answer scripts for a period of 2 years. Sample copies of answer script may be kept according to the requirements of accreditation (max. 5 years).</li> <li>✓ Principal has put forth the observations related to revaluation of papers by the external members who have audited CoE recently and sought the opinion of academic council members.</li> <li>✓ Dr. Kurian Joseph (AU) and Dr. G. Nagarajan (AU) have suggested to follow parent university practice.</li> </ul>
Resolution	Reviewed & Recorded
Item 6.08	Any other items : Nil
Item 6.09	<p>VOTE OF THANKS</p> <p>Dr. E. K. Mohanraj, Member Secretary proposed the vote of thanks.</p>

Date: 23.06.2018

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

## ANNEXURE I

### LIST OF MEMBERS OF ACADEMIC COUNCIL

#### 1. Chairman

Dr. N. Rengarajan	Principal	CHAIRMAN
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#### 2. Heads of Department

S.No	Name	Designation	Department
1.	Dr. E. K. Mohanraj	Dean	Civil Engineering
2.	Dr. S. Arumugam	Professor	Computer Science and Engineering
3.	Dr. C .N. Marimuthu	Dean	Electronics and Communication Engineering
4.	Dr. A. Satheesh	Dean	Electrical and Electronics Engineering
5.	Dr. C. Siva	Professor	Information Technology&MCA
6.	Dr. M. Easwaramoorthi	Dean	Mechanical Engineering
7.	Dr. M. Chandrasekharan	Dean	Science & Humanities
8.	Prof. N. Devaraj	Head	MBA
9.	Dr. V. Geetha	Head	Agriculture Engineering
10.	Prof. G. Mohankumar	Head	Chemical Engineering

#### 3. Teachers of the College

1.	Prof. K. Gunasekar	Associate Professor	Computer Science and Engineering
2.	Dr. S. T. Sadishkumar	Professor	Electronics and Communication Engineering
3.	Prof. B. Karthickprabu	Associate Professor	Electronics and Instrumentation Engineering
4.	Prof. M. K. Murthi	Professor	Mechanical Engineering
5.	Dr. M. Vijayalakshmi	Professor	Chemistry
6.	Prof. R. Thiruneelakkandan	Associate Professor	Physics
7.	Dr. V. Saraladevi	Professor	English

#### 4. Experts from outside the College

1.	Mr.S.Krishnan	Senior Vice President (R&D)	Ashok Leyland Ltd., Chennai. 9710414537 <a href="mailto:krishnan.sadagopan@ashokleyland.com">krishnan.sadagopan@ashokleyland.com</a>
2.	Mr. K.V.Srinivasan	Associate Vice President Travel & Logistics	Tech Mahindra Chennai

3.	Dr. P.R.Thyla	Professor and Head	Department of Mechanical Engineering PSG College of Technology Coimbatore – 641 004 9443134432 <a href="mailto:thylapr@gmail.com">thylapr@gmail.com</a>
4.	Dr.S.J.Thiruvengadam	Professor	Department of Electronics & Communication Engineering Thiagarajar College of Engineering, Madurai 625 015 9865079402, <a href="mailto:sjtece@tce.edu">sjtece@tce.edu</a>
5.	Dr. K. BalanagaGurunathan	Professor	Alliance School of Business, Alliance University, Chandapura, Anekal Main Road, Bangalore - 562 106 94865 95663 <a href="mailto:balanagagurunathan@yahoo.com">balanagagurunathan@yahoo.com</a>
6.	Dr. A.Kannammal	Professor	Department of Computer Applications MCA Coimbatore Institute of Technology, Coimbatore <a href="mailto:kannammal@cit.edu.in">kannammal@cit.edu.in</a> 9786492000

#### 5. Nominees of the University

1	Dr. G. Nagarajan	Professor	Professor, Internal Combustion Engineering Division, Anna University, Chennai – 600 025
2	Dr. P. Anandakumar	Professor & Head	Department of Computer Technology. Madras Institute of Technology, Chromepet, Chennai - 600044, 9841667886
3	Dr. Kurian Joseph	Professor	Centre for Environmental Studies Anna University, Chennai-600025 9840393229

#### 6. Member Secretary

1	Dr. E. K. Mohanraj	Dean	Civil Engineering
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