

DEPARTMENT OF SCIENCE AND HUMANITIES

MINUTES of 4th Meeting of the Board of studies held on
23rd November, 2018 at 10.30 am

Venue: Conference Hall
National Engineering College, K.R.Nagar, Kovilpatti

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution · Affiliated to Anna University, Chennai)
www.nec.edu.in

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**4th Board of studies Meeting in the
Department of Science and Humanities**

Venue: Conference Hall, National Engineering College
K.R.Nagar, Kovilpatti – 628 503

Date & Time: 23.11.2018 & 10.30 AM

Agenda

S & H / BoS 4.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Science and Humanities
S & H / BoS 4.2	:	Confirmation of the Minutes of the 2 nd meeting for the first year and 3 rd meeting for Trans- Disciplinary Elective courses of Board of studies in the department of Science and Humanities held on March 4 th , 2015 and March 18 th 2016
S & H / BoS 4.3	:	Business brought forward by the Chairman, Board of studies 4.3.1. First year Curriculum and Syllabi under R-2019
S & H / BoS 4.4	:	Any other items
S & H / BoS 4.5	:	Suggestions given by the BoS Members

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
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F. No. 1-1/NEC/S & H

23rd Nov, 2018

Dear Sir/Madam,

**Sub: Minutes of the 4th Meeting of the Board of studies in the Science and Humanities-
Reg.**

Kindly find attached herewith the Minutes of the 4th Meeting of Board of studies of the Science and Humanities of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 23rd Nov 2018 at 10.30 AM in the Conference Hall of National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by email at hodsh@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely



Dr.M.A.Neelakantan

National Engineering College, K.R.Nagar, Kovilpatti – 628 503

(An Autonomous Institution - Affiliated to Anna University, Chennai)

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MINUTES OF THE MEETING

The 4th Meeting of the Board of studies of the Science and Humanities was held on 23rd Nov 2018 at 10.30 AM in the Conference Hall of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503

1. The following members were present:

Dr.M.A.Neelakantan , Chairman
Internal Members
Dr.S.Rammurthy, Prof. / Mathematics
Dr.S.S. Mariappan Asso. Prof (SG)/Chemistry
Ms.S.Geetha AP (SG) / Mathematics
Ms.V.Ramalakshmi AP (SG) / Mathematics
Ms.P. Gomathy AP (SG)/ Physics
Ms.S.D.Selvasundari AP/ English
Dr.S. Thalamuthu AP (SG)/ Chemistry
Mr.M.Manivannan AP/ Mathematics
Mr.S.Subash AP/English
Dr.A.Nichelson AP/Physics
University Nominee
Dr.M.Gunasekaran Professor & Head Department of Physics Anna University, Regional Centre, Tirunelveli
Academic Experts
Dr. S. Narayana Kalkura Director and Professor, Crystal Growth Centre Anna University, Chennai
Dr. N. Rajendran Professor, Director, Center for International Affairs Department of Chemistry Anna University, Chennai.

Dr. S.Soundiraraj Assistant Professor Department of English Anna University, Chennai
Dr. R.Mohanraj Assistant professor Department of Mathematics University VOC College of Engineering, Thoothukudi
<i>Student Members Nominated by the HOD</i>
V.Abirama Sundari, Final year CSE
P.Mahaan, Final year Mech
R.Aravindhnan, Final year EEE

S & H / BoS 4.1: Welcome address and Opening Remarks by Chairman, Board of Studies in the department of Science and Humanities

The Chairman BoS of the Science and Humanities welcomed and introduced the Members of 4th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

S & H / BoS 4.2: TO CONFIRM THE MINUTES OF SECOND AND THIRD BoS MEETING HELD ON March 4th 2015 and March 18th 2016

The minutes of the **Second and Third Board of Studies meeting** held on March, 4th 2015 and March, 18th 2016 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 6th Academic council.

S & H / BoS 4.3: **TO CONFIRM AND APPROVE THE CURRICULUM AND SYLLABI OF FIRST YEAR UG DEGREE PROGRAMME (Based on OBE & CBCS) TO BE OFFERED UNDER R-2019**

RESOLVED TO APPROVE the curriculum and syllabi of first year UG degree programme (BASED ON OBE & CBCS) to be offered under R-2019

➤ **R-2019 Curriculum & Syllabi**

(Enclosed in Annexure)

S & H / BoS 4.4: **ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BoS**

4.5.1	ENGLISH	
	<p>Reading Comprehension is added in Unit V.</p> <p>In Unit II, Tense was given as the whole initially and now have split that and given as Tense (present) in Unit I, Tense (past) in Unit II and Tense (future) in Unit V.</p> <p>CO5 outcome is reframed.</p>	
4.5.2	MATHEMATICS	
	<p>Mathematical Foundations For Engineers</p> <p><i>Semester-I (Common to all Branches)</i></p>	<p>In Unit - II - Centre, Radius and Circle of curvature should be changed into Centre of curvature, Radius of Curvature and Circle of Curvature.</p> <p>In Unit-IV topic Solution of simultaneous linear differential equation is to be added.</p>
	<p>Probability and Queuing theory</p> <p><i>Semester -II (common to CSE & IT)</i></p>	<p>Unit - I Content should start with Random Variable and to remove Gamma distribution.</p> <p>Unit- III – Content Start with Random Process.</p>
	<p>Discrete Mathematics</p> <p><i>Semester -III (common to CSE & IT)</i></p>	<p>In UNIT- I the topic Predicate Calculus and Quantifiers are to be included.</p>
	<p>Statistics and Numerical Methods</p> <p><i>Semester -IV (Common to CSE & IT)</i></p>	<p>UNIT - III Heading is to be Changed as SOLUTIONS OF ALGEBRAIC, TRANSCENDENTAL EQUATIONS AND INTERPOLATION and in the topic Interpolation - Newton's Forward & Backward Difference Formulae is to be added.</p>
	<p>Fourier Series and Transforms</p> <p><i>Semester - III (ECE)</i></p>	<p>In Unit - IV Z – Transforms, Initial and Final Value Theorem is to be added</p>
	<p>Probability and Random Processes</p> <p><i>Semester - IV (ECE)</i></p>	<p>In Unit-I Content should be started with Random Variables and Gamma distribution is to be deleted.</p> <p>In Unit – III, Normal Process is to be deleted.</p>
	<p>Complex Analysis, Numerical Methods And Mathematical Logic</p> <p><i>Semester -IV (EEE)</i></p>	<p>Title of the paper is framed on the meeting as COMPLEX ANALYSIS, NUMERICAL METHODS AND MATHEMATICAL LOGIC.</p>

	Probability, Statistics And Numerical Methods <i>Semester – III (MECH)</i>	Title of Unit - IV NUMERICAL SOLUTION OF ALGEBRAIC EQUATIONS, NUMERICAL DIFFERENTIATION AND INTEGRATION is framed and Interpolation is topic is added in the content.
4.5.3	PHYSICS	
	Engineering Physics (Common to all branches)	<ul style="list-style-type: none"> • CO4 outcome is reframed • In Unit I, the topics 'crystal and amorphous' are included • In Unit III, the topic 'semiconductor laser' is added • In Unit IV, the topic 'Double crucible technique' is deleted • In Unit V, the topic 'electron microscope' is removed
	Physics of materials	<ul style="list-style-type: none"> • In Unit II, the thermal conductivity of good conductor is included
	Semiconductor Physics	<ul style="list-style-type: none"> • The Carrier transport: diffusion and drift-p-n junction in Unit II is shifted to Unit V
4.5.4	CHEMISTRY	
	Engineering Chemistry (Common to all branches)	<ul style="list-style-type: none"> • The suggestion to improve the clarity of outcome of the course. • Because of excess content in Unit V the thermo gravimetric analysis should be removed • In the reference, the author of the book is put initially.
	Chemistry for Mechanical Engineering	<ul style="list-style-type: none"> • In Unit V, the topic "bio-assisted nanocomposites" is included
	Biology for Engineers	<ul style="list-style-type: none"> • In Unit II, the molecular interaction analytic methods are included. • The topic "Lipinski's rule" is included in unit V.


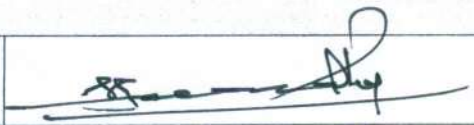


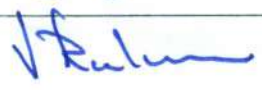




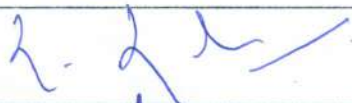

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.









Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- a) The Curriculum and Syllabi for B.E. / B.Tech.degree programme offered under Regulations 2019.

Dr. S.Rammurthy, Professor / Mathematics thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

Dr.M.A.Neelakantan Chairman	
<i>Internal Members</i>	
Dr.S.Rammurthy, Prof. / Mathematics	
Dr.S.S. Mariappan Asso. Prof (SG)/Chemistry	
Ms.S.Geetha AP (SG) /Mathematics	
Ms.V.Ramalakshmi AP (SG) /Mathematics	
Ms.P. Gomathy AP (SG)/Physics	
Ms.S.D.Selvasundari AP/English	
Dr.S. Thalamuthu AP (SG)/Chemistry	
Mr.M.Manivannan AP/Mathematics	
Mr.S.Subash AP/English	
Dr.A.Nicholson AP/Physics	

Dr.M.Gunasekaran Professor & Head Department of Physics Anna University, Regional Centre, Tirunelveli	 23/4/18
Dr. S. Narayana Kalkura Director and Professor, Crystal Growth Centre, Anna University, Chennai	
Dr. N. Rajendran Professor, Director, Center for International Affairs Department of Chemistry, Anna University, Chennai.	
Dr. S.Soundiraraj Assistant Professor Department of English Anna University, Chennai	
Dr. R.Mohanraj Assistant professor Department of Mathematics University VOC College of Engineering, Thoothukudi	
<i>Student Members Nominated by the HOD</i>	
V.Abirama Sundari, Final year CSE	
P.Mahaan, Final year Mech	
R.Aravindhan, Final year EEE	


CHAIRMAN
BOARD OF STUDIES