



MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST  
**Rajarajeswari College of Engineering**



(An Autonomous Institution)

(Affiliated to VTU, Belagavi & Approved by AICTE, UGC & Govt. of Karnataka)  
#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru -560074, Karnataka

**Department of Chemistry**

**1<sup>st</sup> Board of Studies Meeting - Minutes**

Minutes of the meeting of Board of Studies in the Department of Chemistry held on 03/09/2024 at 10:30 AM to 2:30 PM.

Venue: 1<sup>st</sup> Floor Aryabhata Seminar Hall Mechanical Block, RRCE

Members Present:

Sl.No	NAME OF THE MEMBER	DESIGNATION	ROLE IN THE BOS
01	Dr. Sudhakara A	Professor & HOD	Chairman
02	Dr. Aravinda. T	Associate Professor	VTU Nominee (External)
03	Dr. Kalyan Raj	Professor	Subject Expert (External)
04	Dr. Manjunath K	Professor	Subject Expert (External)
05	Dr. Pruthviraj R D	Associate Professor	Member
06	Prof. Ramesha. S	Assistant Professor	Member

The meeting was convened by Dr. Sudhakara A, Chairman, Department of Chemistry, RRCE, Bengaluru-560074

Welcome Address : Dr. Sudhakara A, Chairman, RRCE

Introduction of Members : Dr. Aravinda T – VTU Nominee, NITTE- MIT, Bengaluru  
**External Experts;**  
Dr. Kalyan Raj, BMSCE, Basavanagudi, Bengaluru  
Dr. Manjunatha K, Professor, Nagarjuna College of Engineering & Technology, Devanahalli, Bengaluru-10  
And our **BOS members,**  
Dr. Pruthviraj R D, Associate Professor, RRCE  
Prof. Ramesha S, Assistant Professor, RRCE

Presentation of Syllabus 1<sup>st</sup> Year : Dr. Sudhakara A, Chairman & HOD Department of Chemistry, RRCE

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Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST  
**Department of Chemistry**

Date: 03/09/2024

The following members are attended for the Board of Studies (BOS) 1<sup>st</sup> meeting on 03/09/2024 at 10:30 am, Board room.

Sl.No	Name of the expert member	Designation & Address	Role in the BoS Meeting	Signature with date
1	Dr. Aravinda .T	Associate Professor, Department of Chemistry, NITTE Moomukahi Institute of Technology, Bengaluru	VTU Nominee	 3/9/24
2	Dr. Kalyan Raj	Professor & Head, Department of Chemistry BMS College of Engineering, Bull Temple road, Bengaluru - 560019	Academic Expert	 3/9/24
3	Dr. Manjunath. K	Professor & Head, Department of Chemistry Nagarjuna College of Engineering and Technology Desarahalli, Bengaluru-562164	Academic Expert	 3/9/24
4	Dr.Sudhakar A	Professor & HOD	BOS Chairman	 03/09/24
5	Dr. Pruthviraj R D	Associate Professor	BoS Member	
6	Prof. Hamesha S	Assistant Professor	BoS Member	

BOS CHAIRMAN  
BOARD OF STUDIES  
Dept. of Chemistry  
Rajarajeswari College of Engineering  
Bengaluru - 560074

Deans Academics  
DEAN ACADEMICS  
Rajarajeswari College of Engineering  
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The agenda for the meeting was as under:

- 1) Discussion on Scheme and Syllabus of Applied Chemistry for four different stream 1<sup>st</sup> and 2<sup>nd</sup> Semester.
- 2) Syllabus of Applied Chemistry for CSE, EEE, ME and CIVIL stream programmes.

Chairman Dr. Sudhakara A welcomed dignitaries including BoS members Dr. Aravinda T, Dr. Kalyan Raj, Dr. Manjunatha K, Dr. Pruthviraj R D and Prof. Ramesha S; he briefed the agenda to the B O S members and Invitees.

Principal Dr. Balakrishna R emphasized focusing the syllabus on project-based learning for future generations.

Dr. Sudhakara A highlighted that the syllabus is designed for activity-based learning and aims for effective results.

Dr. Aravinda. T suggested that faculty should plan course with clear semester objectives and align syllabus according to defined course outcomes. Syllabus for Applied Chemistry, it should be specific to **stream (CSE, EEE, ME, and CV)**.

Dr. Aravinda T, Dr. Kalyan Raj external Expert and Dr. Manunatha.K suggested to remove year from the course code (24BCHCS/EE/ME/CV102/202) and mention the scheme (like 24 scheme /26 scheme) on the question paper and equivalent subject will be considered as present scheme/syllabus and suggested to discuss with Controller of Examinations (COE) and take decision. And also they suggested the course name change it is detailed in description.

The chairman initiated the session discussing; the upper limit of the credits for B-Tech courses should be about 160 credits. For CSE and Allied branches' of 1st year UG course schemes and syllabi, starting with institution and departmental missions and introducing BoS members to all present faculties. The chairperson continued by outlining the 1st year program. BoS members then reviewed and provided suggestions and comments on the syllabi for all stream of Chemistry subjects.

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The complete agenda and description is mentioned below;

<b>Agenda</b>	<b>Description</b>
<b>Agenda 1</b>	Welcoming BOS members.
<b>Resolution</b>	Dr. Sudhakara A, HOD & Chairman, Department of Chemistry, welcomed all the BOS members for the First Chemistry BOS members meeting.
<b>Agenda 2</b>	About the Institution.
<b>Resolution</b>	HOD & Chairman, gave the presentation about Rajarajeswari College of Engineering, vision and mission, affiliations, milestones etc.,
<b>Agenda 3</b>	About the Department.
<b>Resolution</b>	HOD, introduced the faculty members of the department & their research field. Result analysis of the department & activities and events conducted in the department for last 1 Year.
<b>Agenda 4</b>	Syllabus Presentation of chemistry for all streams, Presented by Dr. Sudhakara A (CSE stream), Dr. Pruthviraj R D (ME & CV stream) and Prof. Ramesha S (EEE stream)
<b>Agenda 4.1</b>	Teaching-Learning process few suggestions
	<ul style="list-style-type: none"><li>• Increase alternative teaching methods.</li><li>• Have at least two/three common modules in all stream of syllabus same.</li></ul>
<b>Resolution</b>	<ol style="list-style-type: none"><li>a. Have more animated videos related to the concepts in each module.</li><li>b. Have an overall glimpse of the module video on the last hour of lecture of that respective module.</li><li>c. While framing the COs all the modules should be mapped even if a student doesn't attend one CIE test. Have one CO defined for the lab experiments.</li><li>d. It is decided to have the first three modules of all the streams EEE, ME, CIVIL and CSE are same. While changes in the remaining 2 modules related to with respective stream.</li></ol>
<b>Agenda 4.2</b>	As per discussion and suggestion by the committee member subject name should be

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	<p>keep with the respective stream wise.</p> <p>Previous name suggested by our Dean Academics was Engineering Chemistry but in meeting committee suggested that ,</p> <ol style="list-style-type: none"><li>1. Applied Chemistry for CSE &amp; Allied Stream</li><li>2. Applied Chemistry for EEE Stream</li><li>3. Applied Chemistry for ME &amp; Allied Stream</li><li>4. Applied Chemistry for CIVIL Stream</li></ol>
<b>Agenda 4.3</b>	Syllabus for Electronics and Electrical stream
	<ul style="list-style-type: none"><li>• Add some topics in Polymer: introduction in brief with some examples.</li><li>• Included in water Treatment in the module 5.</li></ul>
<b>Resolution</b>	<ol style="list-style-type: none"><li>a) Classification of Polymers, and its four colligative properties to be added, which would be significant in teaching the number average and weight average molecular weight determination &amp; numerical.</li><li>b) Water treatment we included introduction types and removal of hardness and significant in waste water treatment.</li></ol>
<b>Agenda 4.4</b>	Syllabus of Computer Science stream
	<ul style="list-style-type: none"><li>• Include Biodegradable polymers along with polymer in module 3</li><li>• We included Nano chemistry &amp; Nano materials in Module 5.</li></ul>
<b>Resolution</b>	<ol style="list-style-type: none"><li>a. We included metal finishing and Chemical fuels in module 1 &amp; 2 respectively.</li><li>b. Each member gave their opinion about the topic &amp; how one can explain the materials chemistry applications in making a memory device.</li></ol>
<b>Agenda 4.5</b>	Syllabus of Mechanical Stream
	<ul style="list-style-type: none"><li>• Module 3 should be same for ME &amp; CV</li><li>• Change the unit's name.</li></ul>
<b>Resolution</b>	<ol style="list-style-type: none"><li>a. Module 3: Polymer for engineering applications will be kept same for both ME and CV stream.</li><li>b. Nano chemistry will be considered as nano materials under Module 4 and we keep Phase equilibria in module 5.</li></ol>

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<b>Agenda 4.6</b>	Syllabus of Civil stream
	<ul style="list-style-type: none"><li>• Change the Module 5 name.</li><li>• Introduction water and treatment of water is in module 5</li></ul>
<b>Resolution</b>	<p>a. It was agreed for module 4 to give title as “Structural Materials.”</p> <p>b. ISI, ESI or WHO should be considered as the water parameters.</p>
<b>Over all Resolution</b>	Changes will be made for about 25-30% in the syllabus, include video animation while teaching, PPTs to be made to increase the attention of the students towards the class.
<b>Agenda 5</b>	Closing remarks given by Dr. Pruthviraj R D

**Dr. Sudhakara A**  
**HOD, BOS Chairperson**

Professor & HOD

Dept. of Chemistry

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Bengaluru-74

**Dr. Rangaiah L**  
**Dean-Academics**

DEAN ACADEMICS

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**Dr. R Balakrishna**  
**Principal**

Principal

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