

**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 Physics**

**1st Board of Studies Meeting – Minutes Physics**

Minutes of the meeting of Board of Studies in the Department of Physics held on 03-09-2024 at  
10:00 am to 1:00 pm.

Venue: Seminar Hall, 5<sup>th</sup> Floor, Rajarajeswari College of Engineering, Bangalore

**Members Present:**

SL No	Name of the member	Designation	Role in the BOS
1.	Dr. Anil Kumar S.G	Associate Professor, MS Ramaiah Institute of Technology, Bangalore	VTU Nominee, BOS Member
2.	Dr. Bhavyashree Shetty	Professor, Department of Physics, DBIT, Bangalore	Academic Expert
3.	Dr. Prasanna B.P	Associate Professor, Department of Physics, Jain University, Bangalore	Academic Expert
4.	Dr. K.S Krishna Kumar	Professor and HOD, Department of Physics & Rajarajeswari College of Engineering, Bangalore	Chairman, BOS
5.	Dr. Jobish Johns	Professor, Department of Physics, Rajarajeswari College of Engineering, Bangalore	BOS Member
6.	Dr. Vaishali R Bote	Assistant Professor, Department of Physics, Rajarajeswari College of Engineering, Bangalore	BOS Member

The meeting was convened by Dr. K.S. Krishna Kumar – BOS Chairman Physics, RRCE

Welcome Address: Dr. Vaishali R.B BOS Member Physics, RRCE

Introduction of Members: Dr. Jobish Johns – BOS Member Physics, RRCE

Presentation of Syllabus 1st Year: Dr. K.S. Krishna Kumar – BOS Chairman Physics, RRCE

**Agenda:**

To review and finalize the scheme and syllabus for the subject Engineering Physics for all four streams: CSE, EEE, ME, and CIVIL.

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**Key Decisions:**

**1. CSE Stream:**

Module 1: Certain familiar content was eliminated. New topics added: wave-particle dualism, de Broglie hypothesis, and the relation between group velocity and phase velocity.

Module 2: Mechanisms of attenuation and specific applications of optical fibers were included.

Module 3: The S-gate, T-gate, SWAP gate, and controlled Z-gate were removed.

Module 4: The four-probe method and photo transistor topics were removed.

Module 5: "Introduction to digital displays" was shifted to the module on Physics of Semiconductors. The order of modules 4 and 5 was interchanged.

A textbook, Solid State Physics by S.O. Pillai, was added to the reference section.

**2. EEE Stream:**

Module 1: Familiar content was eliminated, and wave-particle dualism, de Broglie hypothesis, and the relation between group velocity and phase velocity were added.

Module 2: Mechanisms of attenuation and specific applications of optical fibers were included.

Module 3: Same content changes as in CSE Stream's Module 4.

Module 4: Quantum Tunnelling and Josephson junctions were removed.

Module 5: The four-probe method and photo transistor topics were removed.

**3. ME Stream:**

Module 1: The content was rearranged.

Module 2: Types of beams were included, and the module's content was rearranged.

Module 3: No changes.

Module 4: The four-probe method and photo transistor topics were removed.

Module 5: Bragg's law was added, and the portions on X-ray Photoelectron Spectroscopy (XPS) were removed.

**4. CIVIL Stream:**

Module 1: The content was rearranged.

Module 2: Types of beams were included, and the module's content was rearranged.

Module 3: No changes.

Module 4: Types of optical fibers were included.

Module 5: Bragg's law was added.

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**Conclusion:**

The meeting concluded with the finalization of the syllabus for all four streams, incorporating the suggested changes and additions. The next meeting date will be decided in due course.

The meeting was adjourned at 1:00 PM.

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**Dept. of Physics**

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 11am, CSE seminar hall.

S.No	Name of the expert member	Designation & Address	Role in the BoS Meeting	Signature with date
1.	Dr. G. N. Anil Kumar	MS Ramaiah Institute of Technology Bengaluru	VTU Nominee	<i>[Signature]</i> 2/9/24
2.	Dr. Bhavyashri Shetty	Professor Dept. of Physics, DBIT, Mysore Road Kumbalagodu Bengaluru-560074	Academic Expert	<i>[Signature]</i> 2/9/24
3.	Dr. Prasanna B.P	Associate Professor Jain University, Bangalore.	Academic Expert	<i>[Signature]</i> 2/9/24

BoS Chairman

Dean Academics

**Bank details**

Sl. No	Name of the member	Ac. No	Bank name	IFSC Code	Signature
1	Dr. G. N. Anil Kumar	89250100013068	Bank of Baroda	BARB005MUMRT	<i>[Signature]</i>
2	Dr. Bhavyashri Shetty	1011469954	KOTAK Mahendra Bank	KKBK0000430	<i>[Signature]</i>
3	Dr. Prasanna B.P	20061628413	Bank of Maharashtra	MAHB0002063	<i>[Signature]</i>

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**Dr. K.S. Krishna Kumar**  
 HOD, BOS Chairperson  
 Dept. of Physics

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

**Dr. Rangaiah L**  
 Dean-Academics

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**Dr. R. Balakrishna**  
 Principal

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