



# LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

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Ref.No: LIET/PHYSICS/BoS-2/MoM/2023/2

Date: 15<sup>th</sup> April, 2023

## DEPARTMENT OF PHYSICS

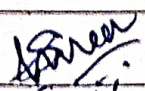
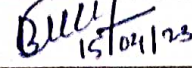
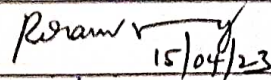
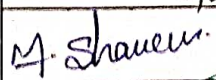
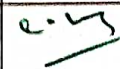
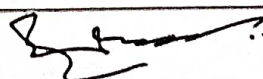
### MINUTES OF THE MEETING OF THE 2<sup>nd</sup> BOARD OF STUDIES

The Second Board of Studies Meeting of the Department of Physics was held on 15-04-2023 at 11:00AM in TBI Conference room, Main Block, Lords Institute of Engineering and Technology, Hyderabad (A).

#### Members Present:

| Subject: ENGINEERING PHYSICS |   |   |                                |
|------------------------------|---|---|--------------------------------|
| S. No.                       | Name & Designation of the of the BOS Member   | Category                                | Signature                      |
| 1.                           | Dr. V. Ravi Kumar<br>Professor & HoD, Department of Physics, LIET   | Chairperson                             | <i>Ravi Kumar</i><br>15/4      |
| 2.                           | Dr. M. Srinivas<br>Professor & Chairperson-Board of Studies, Department of Physics, College of Sciences, Osmania University, Hyderabad. | External Member<br>(University Nominee) | <i>M. Srinivas</i>             |
| 3.                           | Dr. T. Vijay Kumar<br>Associate Professor<br>CVR College of Engineering, Hyderabad, Telangana.  | External Member<br>(Academic Expert)    | <i>T. Vijay Kumar</i>          |
| 4.                           | Dr. A. Alakanandana<br>Associate Professor,<br>G. Narayanamma Institute of Technology and Science for women (Autonomous), Hyderabad.    | External Member<br>(Academic Expert)    | <i>A. Alakanandana</i>         |
| 5.                           | Mr. Hasan Zubair<br>Director, Cognizant Technologies, Hyderabad   | External Member<br>(Industry Expert)    | <i>Hasan Zubair</i>            |
| 6.                           | Mr. Shaik Liyaqath<br>Project Manager - Planning & Execution Dept, Success HVAC Solutions. Hyderabad                                    | External Member<br>(Alumnus)            | <i>Shaik Liyaqath</i>          |
| 7.                           | Dr. M. Sailaja,<br>Associate Professor, Dept. of Physics, LIET  | Internal Member                         | <i>M. Sailaja</i>              |
| 8.                           | Dr. Mujeeb Hasan,<br>Assistant Professor, Dept of Physics, LIET   | Internal Member                         | <i>M. Hasan</i><br>15-04-23    |
| 9.                           | Mr. Md. Jahangir,<br>Assistant Professor, Dept of Physics, LIET   | Internal Member                         | <i>Md. Jahangir</i><br>15/4/23 |



| S. No. | Name& Designation of the of the BOS Member                                     | Category          | Signature   |
|--------|--|-------------------|---|
| 10.    | Mrs. Shireen Mahala Tagore,<br>Assistant Professor, Dept of Physics, LIET      | Internal Member   |              |
| 11.    | Mr. S. Bhanu Prasad,<br>Assistant Professor, Dept of Physics, LIET             | Internal Member   | <br>15/04/23 |
| 12.    | Mr. P. V. Reddy<br>Assistant Professor, Dept of Physics, LIET                  | Internal Member   | <br>15/04/23 |
| 13.    | Ms. M. Shameem<br>Assistant Professor, Dept of Physics, LIET                   | Internal Member   |              |
| 14.    | Dr. C. V. Narasimhulu,<br>Professor, ECE, Principal, LIET                      | Permanent Invitee |              |
| 15.    | Dr. J. SasiKiran,<br>Associate Professor, CSE & Dean – Planning and Evaluation | Special Invitee   |              |

The Meeting was conducted as per the schedule to discuss the agenda given below.

#### AGENDA:

- Introduction of BoS Members to the faculty and vice versa
- Confirmation of last BoS Minutes held on 16-08-2021
- Action taken report on last BoS meeting
- Discussion & Approval of Detailed Courses Syllabus of LR-23 B.E 1<sup>st</sup> Year  
Course Name: **ENGINEERING PHYSICS (Theory & Lab)**
- Ratification of Question Paper Setters, Examiners & Evaluators of B.E
- Suggestions on Innovative Teaching Methodologies.
- Suggestions on Research, Extension and other Academic Activities.

#### Item No. 1: Introduction of BoS Members to the faculty and vice versa.

**Deliberations:** BoS Chairperson Physics welcomed all the members of the Board of Studies, Principal and other faculty members to the meeting. This was followed by the discussion on the agenda points mentioned above:

- BoS Chairperson introduced the BoS members to the respected Principal, LIET, and other faculty members of the department and also introduced the department faculty members to Honorable BoS members and further presented the brief department profile.
- BoS Chairperson shown the salient features, curriculum analysis, and I Year Engineering Physics (Theory & Lab) course syllabus to the members of the BoS.

**Resolution: Noted and Approved**



**Item No. 2:** Confirmation of last BOS minutes of meeting held on 16-08-2021 at 10:00 am, LIET.

**Deliberations:** BoS Chairperson presented all Minutes of the last meeting in the presence of all members of 2<sup>nd</sup> BoS and they verified the minutes and approved.

**Resolution: Noted and Approved**

**Item No. 3:** Action taken on the report of last BOS minutes of meeting held on 16-08-2021.

**Deliberation:** BOS Chairperson presented the Action Plan taken on Minutes of last BOS meeting held on 16-08-2021 as mentioned in below tabular column.

| S.No | Points Discussed  | Action Plan Taken  |
|------|---|--|
| 1.   | University Nominee suggested the following points: <ul style="list-style-type: none"><li>• He suggested to keep the syllabi of Engineering Physics (Theory &amp; Lab) same as per OU for "LR-21" Regulations</li><li>• Discussed on CIE and SEE evaluation process to be kept as per OU.</li></ul>  | All the Suggestions given by university Nominee have been taken to include in the syllabus [Engineering Physics (Theory and Lab)] and bounded. |
| 2.   | External Member -1 suggested the following points: <ul style="list-style-type: none"><li>• He suggested to incorporate some basic definitions.</li><li>• He suggested to keep the syllabi of Engineering Physics (Theory &amp; Lab) same as per OU for "LR-21" Regulations</li></ul>  | All the Suggestions given by External Member-1 have been taken and small changes were made accordingly in the syllabus in required places.     |
| 3.   | External Member-2 suggested the following points: <ul style="list-style-type: none"><li>• She suggested to incorporate some basic definitions and rearrange the units for the continuity of the syllabus.</li><li>• She suggested to keep the syllabi of Engineering Physics (Theory &amp; Lab) same as per OU for "LR-21" Regulations.</li></ul> | The suggestions of the External Member-2 have been taken and modifications were made accordingly in the syllabus and bounded.                  |
| 4.   | Alumni Member suggested the following points: <ul style="list-style-type: none"><li>• Suggested that the syllabus may be appropriate for the current scenario.</li><li>• Accepted the syllabus as suggested by BoS members.</li></ul>   | All the suggestions given by Alumni member have been implemented in the syllabus.  |
| 5.   | Industry Expert suggested the following points: <ul style="list-style-type: none"><li>• More application oriented topics related to recent technologies.</li><li>• He suggested to keep the syllabi of Engineering Physics (Theory &amp; Lab) same as per OU for "LR-21" Regulations</li></ul>  | The suggestion given by the Industry expert has been incorporated in the syllabus.   |

**Resolution: Noted and Approved**

① *Kamlesh* ② *Prasanna* ③ *S. G. Iyer* ④ *A. Alaka* ⑤ *Subash*  
⑥ *Anil Kumar* ⑦ *N. Saitoj* ⑧ *M. Hasan* ⑨ *ms Ja* ⑩  
⑪ *Bey* ⑫ *Ram v y* ⑬ *M. Shaveen* ⑭ *W* ⑮ *R*



**Item No. 4:** Discussion & Approval of Detailed Courses Syllabus of LR-23 B.E 1<sup>st</sup> Year

Course Name: **Engineering Physics (Theory & Lab)**

**Deliberation:**

The Chairperson of BoS presented the detailed Syllabus of Engineering Physics of LR- 23 Regulations and after elaborated discussion, BoS Members suggested the following points:

- University Nominee suggested and proposed to label Lecture hours against each unit of the proposed syllabus of the LR-23.
- Subject Expert-1 suggested to remove the physical optics portion as it is observed that this topic mismatch with the existing crystallography portion. They further suggested to remove the Line defects topics from unit-I. Subject Expert-2 also suggested the same.
- The University Nominee & subject Experts felt that, the topic of pumping has to be incorporated and elaborated discussion on Einstein A and B coefficients shall be included in unit-II of the proposed syllabus.
- The University Nominee and Subject Experts suggested that topics like statement of Bloch theorem, Davisson Germer Experiment, and the semiconductors devices like Solar cell, LED shall be incorporated in the unit-III of the proposed syllabus. They further suggested to change the title of the second part of unit-III as Semiconductors and Devices.
- The subject experts and University Nominee suggested to remove the topics like Weiss molecular theory and to include the topic of Domain theory and Hysteresis explanation on the basis of Domain theory in Unit-IV of the proposed syllabus.
- The subject experts and University Nominee suggested removing topics like Frequency and temperature dependence of dielectric polarization and Capacitance Bridge method. They further suggested that to include the detailed explanation of Ionic polarization in first part of Unit-V of the proposed syllabus. They also proposed to remove topic like Carbon Nano tubes, and suggested to include the brief explanation of Quantum confinement in the second part of the Unit-V of the proposed syllabus.
- The Industry Expert of the BOS suggested that more application orientated topics to be included in the syllabus.
- Due to preoccupation the Alumni member of BOS did not attend BOS meeting.

**Resolution:**

The Members after thorough discussion approved the Syllabus of Engineering Physics (Theory & Lab).

The detailed approved syllabi of Engineering Physics (Theory and Lab) are given in Annexure-I& II.

**Noted & Approved**

① Revinthius      ② Prasanna      ③ G. G. S. S.      ④ A. Alake      ⑤ Subash

⑥ Subash      ⑦ M. S. S. S.      ⑧ M. Hasan      ⑨ md. J. J.      ⑩

⑪ B. S. S.      ⑫ Prasanna      ⑬ M. S. S. S.      ⑭ md. J. J.      ⑮ md. J. J.

**Item No. 5:** Approval & Ratification of Question paper Setters, Examiners & Evaluators of B.E I & II Semesters of LR-21 & LR-23.

**Deliberation:** The Chairperson of BOS Presented the List of Question paper Setters, Examiners & Evaluators of B.E I & II Semesters [Physics department related courses] of LR-21 & LR-23 and after elaborated discussion, BOS Members approved the same.

**Resolution:** All Members are approved and ratified the same, and it is given in Annexure –III

### Noted and Approved

**Item No.6:** Suggestions on Innovative teaching learning process, Evaluation, Research and development of Physics

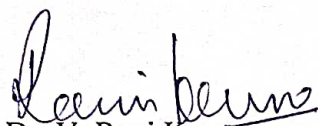
**Deliberation:** BOS members suggested on Innovative teaching learning process, Evaluation, Research and Development of Physics Department and suggested to conduct FDPs, Awareness programs to publish research articles in Web of Science and Scopus Indexed Journals, etc.

**Resolution:** Noted and Approved

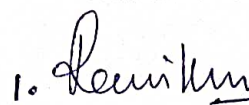

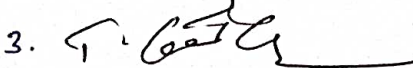
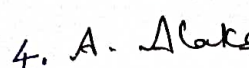

Dean-I Year honored the suggestions given by the BOS members and thanked all the members for accepting the invitation and attending the meeting online and concluded the meeting.

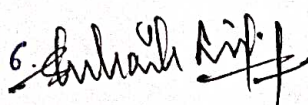
BOS Chairperson thanked all the members for the suggestions towards improvement. BOS Chairperson conveyed vote of thanks to all the BOS members for spending their valuable time in reviewing the course structures & syllabi, all the Deans and HODs of other departments, department faculty members for the support in designing course structures of UG. He also thanked the Principal for continuous guidance and the Management for constant encouragement and support.

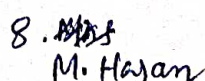
The meeting was concluded with the approval of University Nominee and consensus of all BOS Members




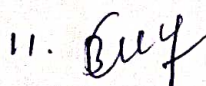
Dr. V. Ravi Kumar  
Chairperson – Board of Studies  
Department of Physics  
Lords Institute of Engineering and Technology[A]

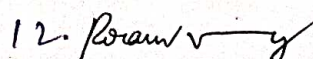
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2. 
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4. A. Alaka 
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6.  7. M. Sailaja

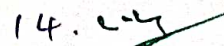
8.   
M. Hasan

9. Md. Faruq 10. 

11. 

12. 

13. M. Shaleen

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