

**VIGNAN'S**

Foundation for Science, Technology & Research

(Deemed to be University)

-Estab. with E.O. of GOI Act 1986

DEPARTMENT OF PHYSICS**CIRCULAR**

Date: 10.12.2024

The Department of Physics will be conducting the Board of Studies (BoS) meeting for the courses of B.Tech. program on **21.12.2024** from 09.00 AM in VBTQ7, A-block VFSTR in offline mode. All members are requested to make it convenient to attend the meeting.

The members are:

SL No	Name of the member	Designation and Address	Role
1	Dr. K. V Madhuri	Professor and Head of the Department	Chair person
2	Prof. G. Hema Chandra	Professor, Department of Physics, VNIT Nagpur,	External member (Academia)
3	Dr. Y. Bharath Kumar Reddy	Director (Techno Commercial) ABC Cleantech. Pvt.Ltd	External member (Industry)
4	Dr. Neeraj Dwivedi	Principal Scientist, CSIR-Advanced Materials and Processes Research Institute(CSIR-AMPRI)	Invited member (Research)
5	Dr. Saket Asthana	Professor, Department of Physics, IIT Hyderabad.	Invited member
6	Prof. J. N. Kiran	Professor, Dept. of Physics, VFSTR.	Internal member
7	Prof. M. Sreenivasulu	Professor, Dept. of Physics, VFSTR.	Internal member
8	Dr. M L N Madhu Mohan	Associate Professor, Dept. of Physics, VFSTR.	Internal member (R&D nominee)
9	Dr. Ch. Tirupataiah	Associate Professor, Dept. of Physics, VFSTR.	Internal member
10	Dr. Shaik Habibuddin	Associate Professor, Dept. of Physics, VFSTR.	Internal member
11	Dr. Ashutosh Upadhyay	Assistant Professor, Dept. of Physics, VFSTR	Internal member (School nominee)
12	Dr. B. Nageswara Rao	Assistant Professor, Dept. of Physics, VFSTR.	Internal member
13	Dr. P. Srinivasarao	Assistant Professor, Dept. of Physics, VFSTR.	Internal member
14	Dr. M. Ramanjaneyulu	Associate Professor, (BoA) Dept. of Physics, VFSTR.	Member Secretary

Agenda of the BoS Meeting:

1. To solicit feedback on the present syllabus (R22, C24) from BoS members.
2. To discuss the branch specific Physics courses for the 1st B. Tech students for the academic year 2025-26.
3. To deliberate open elective syllabus to be offered for 2nd and 3rd year students.



Chairperson

(Dr. K V Madhuri)

Prof. K.V. Madhuri

Head

Department of Physics

School of Applied Sciences & Humanities

Vignani's Foundation for Science, Technology and Innovation

(Deemed to be University)

Vadlamudi, Guntur-522213



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DEPARTMENT OF PHYSICS

Date: 21.12.2024

Minutes of Board of Studies Meeting

Department of Physics has conducted the Board of Studies (BoS) meeting for the B.Tech. program on 21.12.2024 at VBT-07, A-block from 09.00 AM to 04.00 PM under the Chairmanship of the Head, Department of Physics along with the committee and external members with external invitees in offline mode.

Agenda of the BoS Meeting:

1. To solicit feedback on the present syllabus (R22, C24) from BoS members.
2. To discuss the branch specific Physics courses for the 1st B. Tech students for the academic year 2025-26.
3. To deliberate open elective syllabus to be offered for 2nd and 3rd year students.
4. Any other points with the permission of the Chairperson.

Chairperson, **Dr. K. V. Madhuri**, Professor and Head, Department of Physics, VFSTR opened the meeting by welcoming and introducing the external members, invitees to the internal members. The chairperson presented about the *NEP 2020 Compliant Regulation - R22* which emphasis on creating *learning centric* (continuous learning and continuous assessment model).

The following points were discussed in the BoS meeting:

1. Existing syllabus and LTP structure for Regulation R22, C24.
2. Introducing the branch specific courses for 1st year B. Tech students.
3. Open electives for 2nd year and 3rd year B. Tech students.

The following resolutions are made after the discussions:

1. BoS members felt that, introducing Quantum mechanics as a first unit would make students difficult to understand and it needs to be moved to the last part of the syllabus as fourth unit.


2. BoS members approved to float, four different courses for the 1st B. Tech students and the detailed syllabus and LTP structure are provided in Appendix-I.
3. Three open electives will be offered to 2nd and 3rd year B. Tech students. List of approved open electives are provided in Appendix-I
4. Suggestions and updates from the expert members were noted and incorporated in the syllabi of branch specific courses and also in open electives.
5. The curriculum is encompassing the courses that enable employability or entrepreneurship or skill development, provided in Appendix- II.
6. The significant changes are made in the content of all courses for group of allied branches and hence the courses are considered as new courses provided in Appendix-III.
7. Total average percentage of syllabus revision/modification was about 5% compared to previous curriculum of R24, C24.

Based on the feedback from various stakeholders and suggestions given by the members, the Chairperson of BoS assured the above fruitful suggestions would be incorporated appropriately in the syllabi of regulation R22, C25 and it will be recommended to the Academic Council of VFSTR for the approval.

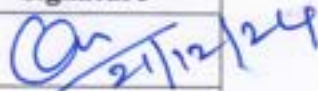
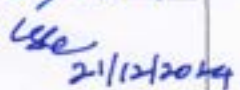
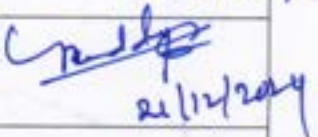


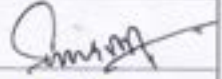
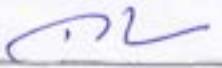


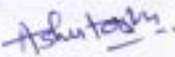

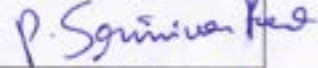
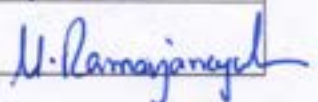
There being no further points for discussion, the Chairperson thanks all the external, internal, invited members and announced that the meeting was adjourned.

Note: Dr. Malakondaiah, Executive Council member, VFSTRU also attended the meeting in the afternoon session and shared his experiences.


Member Secretary
(Dr. M Ramanjaneyulu)


Chairperson
(Dr. K V Madhuri)
Prof. K.V. Madhuri
Head
Department of Physics
School of Applied Sciences & Humanities
Vigna's Foundation for Science, Technology and Research
(Deemed to be University)
Vadlamudi, Guntur-522213

The following members were present for the BoS (Physics) meeting held on 21-12-2024

Sl. No	Name of the member	Designation and Address	Signature
1	Dr. K. V Madhuri	Chairman & Professor and Head of the Department	
2	Prof. G. Hema Chandra	External Expert & Professor, Department of Physics, VNIT Nagpur	
3	Dr. Y. Bharath Kumar Reddy	External Expert & Director (Techno Commercial) ABC Cleantech. Pvt.Ltd	
4	Dr. Neeraj Dwivedi	External Expert & Principal Scientist, CSIR-Advanced Materials and Processes Research Institute (CSIR-AMPRI)	
5	Dr. Saket Asthana	External Expert & Professor, Department of Physics, IIT Hyderabad, Kandi, Sangareddy, Telangana	
6	Prof. J. N. Kiran	Member, Professor, Dept. of Physics, VFSTR.	
7	Prof. M. Sreenivasulu	Member, Professor, Dept. of Physics, VFSTR.	
8	Dr. M L N Madhu Mohan	Dean, R & D Nominee, Associate Professor, Dept. of Physics, VFSTR.	
9	Dr. Ch. Tirupataiah	Member, Associate Professor, Dept. of Physics, VFSTR.	
10	Dr. Shaik Habibuddin	Member, Associate Professor, Dept. of Physics, VFSTR.	
11	Dr. Ashutosh Upadhyay	Member, Assistant Professor, Dept. of Physics, VFSTR.	
12	Dr. B. Nageswara Rao	Member, Assistant Professor, Dept. of Physics, VFSTR.	
13	Dr. P. Srinivasarao	Member, Assistant Professor, Dept. of Physics, VFSTR.	
14	Dr. M. Ramanjaneyulu	Associate Professor, (BoA) Dept. of Physics, VFSTR.	

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DEPARTMENT OF PHYSICS**APPENDIX I****B. Tech Programme: Revised Curriculum Structure for the academic year 2025-26**
I year I Semester (Semester 1 and/or 2)

Sl. No.	Course Title	L	T	P	C	Course Category	Offered to
1.	Engineering Physics	3	0	2	4	Science	CS&BS, CSE(CS), CSE(DS), CSE(AI&ML), CSE(IOT), IT
2.	Physics for Electronic Engineers	3	0	2	4	Science	ECE, EEE
3.	Applied Physics	3	0	2	4	Science	BT, BI, FT, BM
4.	Fundamentals of Engineering Physics	3	0	2	4	Science	MECH, CIVIL, CHEM, TT
	Total	12	0	8	16		

L=Lecture; T= Tutorial; P= Practical; C=Credits**List of Open Elective Courses for 2nd and 3rd year B. Tech students**

S.No.	Title
1.	Thin film technology
2.	Analytical techniques for Engineers
3.	Sustainable energy technologies

Chairperson

(Dr. K V Madhuri)

Prof. K.V. Madhuri**Head****Department of Physics****School of Applied Science & Humanities****Vignan's Foundation for Science, Technology and Research****(Deemed to be University)****Vadlamudi, Guntur-522213**



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File No. 5 of UGC Act 1956

DEPARTMENT OF PHYSICS

APPENDIX II

List of Courses that Enables Employability or Entrepreneurship or Skill Development

S. No.	Year and Semester	Course Title	Employability / Entrepreneurship / Skill development
1.	I Year I/II Semester	Engineering Physics	Skill development
2.	I Year I/II Semester	Physics for Electronic Engineers	Skill development
3.	I Year I/II Semester	Applied Physics	Skill development
4.	I Year I/II Semester	Fundamentals of Engineering Physics	Skill development
5.	2 Year I/II Semester	Thin film technology	Employability
6.	2 Year I/II Semester	Analytical techniques for Engineers	Employability
7.	3 Year I/II Semester	Sustainable energy technologies	Employability

Chairperson

(Dr. K V Madhuri)

Prof. K.V. Madhuri

Head

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DEPARTMENT OF PHYSICS

APPENDIX- III

List of New Courses in the R22 Curriculum

S. No.	Year and Semester	Course Title	Employability / Entrepreneurship / Skill development
1.	I Year I/II Semester	Physics for Electronic Engineers	Skill development
2.	I Year I/II Semester	Applied Physics	Skill development
3.	I Year I/II Semester	Fundamentals of Engineering Physics	Skill development
4.	2 Year I/II Semester	Thin film technology	Employability
5.	2 Year I/II Semester	Analytical techniques for Engineers	Employability
6.	3 Year I/II Semester	Sustainable energy technologies	Employability

Chairperson

(Dr. K V Madhuri)

Prof. K.V. Madhuri

Head

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APPENDIX IV

Comparison of Course Contents between R22 and R22, C24 Curriculums

(Should be maintained by BoS member for future reference)

S. No.	Year and Semester	Course Title	% of Changes
1.	1 Year I/II Semester	Engineering Physics	5%
Average % of Changes			5.0%



Chairperson

(Dr. K V Madhuri)

Prof. K.V. Madhuri

Head

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Annexure – IV



DEPARTMENT OF PHYSICS

APPENDIX

Action Taken Report (ATR) on the suggestions given in earlier BoS meetings

S.No.	Action Point	Response
1.	Difficulty of Quantum mechanics	Our faculty added more real time examples to understand quantum mechanics and the need of quantum mechanics where exactly classical mechanics fails.
2.	Lab practices	During the lab practices, the demonstration of experiment and connecting them directly with theoretical part of course.


Member Secretary



Chairperson
Prof. K.V. Madhuri
Head

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Note: If there are no suggestions in the earlier BoS meetings, mention the same and submit the report.

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Dr. Robert J. ...

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