



*Board of Studies – 3<sup>rd</sup> Meeting in the  
Department of Physics*

for the Programme  
**B.Sc. Physics**

*Venue*

Physics lab, SAS Block  
Sri Manakula Vinayagar Engineering College  
Madagadipet, Puducherry – 605 107

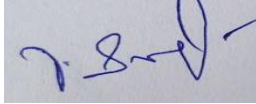


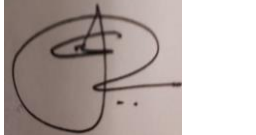

*Date & Time*







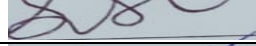


06.08.2021 & 10.00 A.M

**Minutes of Board of Studies**

The Board of Studies - III meeting for the Department of Physics was held on **August 6<sup>th</sup> at 10.00A.M** in the Physics Lab, SAS Block, Sri Manakula Vinayagar Engineering College with the Head of the Department, BoS Chairman, and Internal members.

The following members were present for the BoS meeting

Sl.No	Name of the Member with Designation and official Address	Responsibility in the BoS	Signature
1	<b>Dr. T. Jayavarthanam</b> , M.Sc., M.Phil., Ph.D. Professor Department of Physics, SMVEC	Chairman	
<b>External Members</b>			
2	<b>Dr. B. J. Kalaiselvi</b> , M.Sc., M.Tech., Ph.D Professor, Department of Physics, Pondicherry Engineering College, Puducherry-605014	Pondicherry University Nominee	
3	<b>Dr. S. Senthilnathan</b> , M.Sc., M.Phil., Ph.D. Professor, Department of Physics University college of Engineering, Pattukottai	Academic Council Nominee	
4	<b>Dr. D. Manikandan</b> , M.Sc., M.Phil., Ph.D. Assistant Professor, Arignar Anna Govt Arts College, Villupuram	Academic Council Nominee	
5	<b>Mr. J. Bagairathan</b> , M.Sc., M.Tech Manager, L.G. balakrishnan & brothers Ltd	Industrial Nominee	

<b>Internal Members</b>			
1	Mr. K. Oudayakumar. M.Sc., M.Tech	Member	
2	Dr.T. Sivaranjani M.Sc., M.Phil., Ph.D.	Member	
3	Dr.D.Mohan Radheep M.Sc., M.Phil., Ph.D. PDF	Member	
4	Ms. C. Bavani M.Sc., M.Phil., M.Ed	Member	
5	Ms. S. Geetha M.Sc., M.Phil., B.Ed.	Member	
<b>Co-opted Members</b>			
1	Dr.M.A.Ishrath Jahan M.A., M.Phil., Ph.D	Member	
2	Dr. S. Savithri, M.Sc., M.Phil., Ph.D	Member	
3	Mr.Shanmugam, M.Sc., M.Phil., SET	Member	
4	Mr.K.Ganaesan,M.Sc.,M.Phil	Member	

### **AGENDA OF THE MEETING**

BOS /2021/PH/UG /3.1	Welcome Address, Introduction about the Institution, Department and BoS Members
BOS /2021/PH/UG /3.2	Confirmation of Minutes of the Second Meeting of the Board of Studies.
BOS /2021/PH/UG /3.3	To discuss and approve the improvisations in the Curriculum Structure of the Bachelor of Physics Programme
BOS /2021/PH/UG /3.4	To discuss the modifications in the Syllabi for the First Year (II Semester) and Second Year courses under R-2020 regulations for the Bachelor of Physics Programme
BOS /2021/PH/UG /3.5	To consider any other item with the permission of the Chair

## Minutes of the Meeting

**Dr. T. Jayavarthanan**, Chairman, BoS started the meeting by welcoming and introducing the External Members to the Internal and Co-opted Members.

The Chairman proceeded with the presentation to deliberate on agenda items.

<b>BOS /2021/ SAS /PH/ UG /3.1</b>	<b>Welcome Address, Introduction about the Institution, Department and BOS Members</b>
	The Chairman of the meeting formally welcomed the honorable members of the Board and introduced them the credentials of the Institution and the Department. The attainments and awards of the Institution have been briefed for the benefit of the members of the Board. The members have expressed their appreciations for the achievements of the Institution.

<b>BOS /2021/ SAS /PH/ UG /3.2</b>	<b>Review and Confirm Minutes of BoS-2<sup>nd</sup> Meeting held on 09.04.2021</b>												
	The BoS- 2 <sup>nd</sup> Meeting for B.Sc. Physics under regulation 2020 held on 09-04-2021 and confirmed the following points.  The BoS members discussed elaborately and reviewed the Syllabi of semesters III and IV and suggested the following points. <ul style="list-style-type: none"> <li>➤ Follow uniformity in Course Outcomes and Objectives</li> <li>➤ Suggested to give equal weightage to all units</li> <li>➤ Repeated experiments can be removed</li> <li>➤ The Open Elective titled <b>Physics of Devices and Instrumentation</b> to be renamed as <b>Physics for Electronic Devices</b></li> </ul>												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S.No</th> <th style="width: 15%;">Regulation</th> <th style="width: 10%;">Semester</th> <th style="width: 15%;">Course code</th> <th style="width: 20%;">Open Elective</th> <th style="width: 30%;">Particulars</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">R2020</td> <td style="text-align: center;">III</td> <td style="text-align: center;">A20PHO323</td> <td style="text-align: center;">Physics of Devices and Instrumentation</td> <td style="text-align: center;">Suggested to renamed as Physics for Electronic Devices</td> </tr> </tbody> </table>	S.No	Regulation	Semester	Course code	Open Elective	Particulars	1	R2020	III	A20PHO323	Physics of Devices and Instrumentation	Suggested to renamed as Physics for Electronic Devices
S.No	Regulation	Semester	Course code	Open Elective	Particulars								
1	R2020	III	A20PHO323	Physics of Devices and Instrumentation	Suggested to renamed as Physics for Electronic Devices								
	<b>Minutes were Reviewed and Confirmed</b>												

<b>BOS /2021/ SAS /PH/ UG /3.3</b>	<b>To discuss and approve the improvisations in the Curriculum Structure of the Bachelor of Physics Programme</b>																	
	The BoS members elaborately discussed the Curriculum of I to IV semesters and suggested the following points <ul style="list-style-type: none"> <li>• In the I Year Curriculum (I &amp; II semesters) Tamil I / French I / Hindi I and Tamil II / French II / Hindi II can be fixed as MIL (Modern Indian Language for B.Sc Physics students admitted from the AY 2021-2022 (refer Annexure I)</li> <li>• The BoS members reviewed and discussed about <b>Discipline Specific Electives</b> offered in III and IV Semester Curriculum and suggested the following points,</li> </ul>																	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S.No</th> <th style="width: 15%;">Regulation</th> <th style="width: 10%;">Semester</th> <th style="width: 15%;">Course code</th> <th style="width: 20%;">Discipline Specific Electives</th> <th style="width: 30%;">Particulars</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td rowspan="2" style="text-align: center;">R2020</td> <td style="text-align: center;">III</td> <td style="text-align: center;">A20PHE303</td> <td style="text-align: center;">Embedded Systems</td> <td style="text-align: center;">Suggested to replace as <b>Microprocessor</b> (refer Annexure – I)</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">IV</td> <td style="text-align: center;">A20PHE406</td> <td style="text-align: center;">Thermal Physics</td> <td style="text-align: center;">Suggested to replace as <b>Agricultural Physics</b> (refer Annexure – I)</td> </tr> </tbody> </table>	S.No	Regulation	Semester	Course code	Discipline Specific Electives	Particulars	1	R2020	III	A20PHE303	Embedded Systems	Suggested to replace as <b>Microprocessor</b> (refer Annexure – I)	2	IV	A20PHE406	Thermal Physics	Suggested to replace as <b>Agricultural Physics</b> (refer Annexure – I)
S.No	Regulation	Semester	Course code	Discipline Specific Electives	Particulars													
1	R2020	III	A20PHE303	Embedded Systems	Suggested to replace as <b>Microprocessor</b> (refer Annexure – I)													
2		IV	A20PHE406	Thermal Physics	Suggested to replace as <b>Agricultural Physics</b> (refer Annexure – I)													
	<ul style="list-style-type: none"> <li>• The BoS members reviewed about the <b>Open Electives</b> offered to the other Departments and suggested the following points,</li> </ul>																	

- To choose simple and interesting topics like, Modern Communication System, Space Science, Astrophysics and Bio Physics,

S.No	Regulation	Semester	Course Code	Open Electives	Particulars
1	R 2020	III	A20PHO322	Physics of Material Device	Suggested to replace as <b>Basics of Modern Communication Systems</b> (refer Annexure-I)
2			A20PHO323	C++ Programming and its application to Physics	Suggested to replace as <b>Astrophysics</b> (refer Annexure-I)
3			A20PHO324	Statistical Physics	Suggested to replace as <b>Bio Physics</b> (refer Annexure-I)
4		IV	A20PHO421	Communication Electronics	Suggested to replace as <b>Space Science</b> (refer Annexure-I)

**As per the suggestions of BoS Members, the changes were made and Approved the Curriculum and Syllabi and recommended to Academic Council. The details are given in Annexure-I**

**BOS /2021/  
SAS /PH/  
UG /3.4**

**To discuss the modifications in the Syllabi for the First Year (II Semester) and Second Year courses under R-2020 regulations for the Bachelor of Physics Programme**

The BOS members discussed elaborately and reviewed the improvised Syllabi of Semesters I to IV and suggested the following points

S.No	Regulation	Semester	Course title with Code	Unit	Particulars
1	R 2020	III	Wave Oscillations and acoustics / A20PHT305	II & III	Suggested to combine and named as Transverse waves & Longitudinal waves (Unit-II) (refer Annexure- II)
				V	Suggested to include Application of ultrasonics as Unit V. (refer Annexure- II)
			Basic electronics /A20PHT306	I	Suggested to include diode and its applications (refer Annexure- II)
2		IV	Applied Electronics / A20PHT408	IV	Suggested to change the title as Boolean Memory Devices. (refer Annexure- II)
			Laser and fiber optics Communication / A20PHT409	V	Suggested to change the title as Application of Fiber Optics (refer Annexure- II)
3		I-IV	Physics Practical Lab A20PHL101- A20PHL404		Suggested to reduce the total number of experiments to 10 (refer Annexure-II)

**The above suggested points were carried out and approved by BoS Members and recommended to Academic Council. The details are given in Annexure- II.**

The BoS members reviewed syllabi of Allied Physics offered in the curriculum (R-2020) to other Departments suggested following point,

S.No	Regulation	Course title with Code	Unit	Particulars
1	R 2020	Allied Physics – I A2CHD303 / A20MAD101	III	Suggested to change the content (refer Annexure-II)
			IV	Suggested to include Applications (refer Annexure-II)
			V	Suggested to include Applications (refer Annexure-II)
2		Allied Physics Lab I & II A2CHD304 / A20MAD102		Suggested to include the Experiments based on their syllabus (refer Annexure-II)

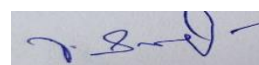
**Approved the Allied Physics Syllabi with above mentioned changes and recommended to Academic Council. The details are given in Annexure-II**

**BOS /2021/  
SAS /PH/  
UG /3.5**

**To consider any other item with the permission of the Chair**

- Discussed about the Industrial visits and Mini projects
- Mathematics department offered Statistics R Lab (A20PHD203) in the second semester have been renamed as Statistics laboratory

The Board of Studies approved the above suggestions for B.Sc. Physics. The meeting was concluded at **1:00 PM** with vote of thanks by **Dr.T.Jayavarthan**, Professor, and Department of Physics.



**Dr.T.Jayavarthan**  
Professor / Physics  
Chairman –BOS