Scott Christian College (Autonomous), Nagercoil

DEPARTMENT OF PHYSICS AND RESEARCH CENTRE

MINUTES OF THE 16TH MEETING OF THE BOARD OF STUDIES OF THE PHYSICS DEPARTMENT HELD ON 24.06.2023.

The 16th Meeting of the Board of Studies (BoS) of the Physics Department was held on 24.06.2023 in the Physics library in which the following members were present:

Sl.No.	NAME	AFFILIATION	ROLE
1.	Prof. A. Charles Hepzy Roy	Associate Professor Department of Physics & Research Centre Scott Christian College (Autonomous), Nagercoil. <u>charleshepzyroy@scottchristian.org</u> +91 9944261881	Chairman
2.	Dr. C. James	Associate Professor Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. james@scottchristian.org +919489500237	Member
3.	Dr. C. Besky Job	Associate Professor Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. <u>beskyjob@scottchristian.org</u> +919487026024	Member
4.	Dr. Y. Premila Rachelin	Assistant Professor Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. <u>premilarachelin@scottchristian.org</u> +919489620591	Member
5.	Dr. J.V. Bynaja	Assistant Professor Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. <u>bynaja@scottchristian.org</u> +919443284135	Member
6.	Dr. V. Anslin Ferby	Assistant Professor Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. <u>anslinferby@scottchristian.or</u> ~ +919443595694	Member

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7.	Dr. B.S. Benila	Assistant Professor Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. <u>benila@scottchristian.org</u> +919843626563	Member
8.	Dr. Y. Sheeba Sherlin	Assistant Professor Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. <u>sheebasherlin@scottchristian.org</u> +919442304397	Member
9.	Dr. T. R. Beena	Assistant Professor Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. <u>beena@scottchristian.org</u> +919487386199	Member
10.	Dr. S. Sharmila Juliet	Assistant Professor Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. <u>sharmilajuliet@scottchristian.org</u> +919487094860	Member
11.	Dr. D.J. Jeeja Mol	Assistant Professor Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. jeejamol@scottchristian.org +917598629087	Member
12.	Dr. H. Adline Mahiba	Assistant Professor Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. <u>adline@scottchristian.org</u> +919408657877	Member
13.	Dr. D. Hudson Oliver	Assistant Professor Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. <u>hudsonoliver@scottchristian.org</u> +919952654515	Member
14.	Dr. C. Ravidhas	Faculty Head PG & Research Department of Physics Bishop Heber College (Autonomous) Thiruchirapalli – 620 017 <u>cravidhas@gmail.com</u> +919443(Subject Expert 1

15.	Dr. I. Hubert Joe	Associate Professor Department of Physics University of Kerala Thiruvananthapuram – 695 034 <u>hubertjoe@gmail.com</u> +919447220563	Subject Expert 2
16.	Dr. R. Sheela Christy	Professor and Head Department of Physics & research Centre, Nesamony Memorial Christian College, Marthandam - 629165 <u>sheelachristy64@yahoo.com</u> +91 9442382469	Vice-Chancellor's Nominee
17.	Mr. D. Gilbert Chandra	Group Head, Instrumentation, ISRO Propulsion Complex, Mahendragiri– 627 133 gilbertd26@gmail.com +919442180572	Industrialist
18.	Dr. V. Shally	Assistant Professor, Department of Physics & research Centre Holy Cross College (Autonomous) Kurusady, Nagercoil – 629 002 <u>shally.v@holycrossngl.edu.in</u> +917598854466	Illustrious Alumnus

The meeting of the Board of Studies of the Physics Department was held at 10 am on 24.06.2023 in the Physics Library.

In the beginning, the **Chairperson Prof. A. Charles Hepzy Roy** introduced and welcomed the members.

Dr. C. James, Controller of Examination, Dean of IQAC & Associate Professor of Physics recorded his dissent over adopting uniform syllabus by stating that uniform syllabus contemplated by TANSCHE is against the liberty of designing curriculum of Autonomous Colleges. He also noted that the idea of uniform syllabus is against UGC regulations 2023 of Autonomous Colleges.

Thereafter, the agendas were taken up for discussion.

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Minute No.	Minutes
1	Confirmation of the Minutes of the 15 th BoS meeting held on 07.02.2022.
	Member Secretary Dr. B.S. Benila read the minutes 15th BoS meeting held on
	07.02.2022 and the minutes were confirmed.
2	Action Taken Report on the Minutes of the 15 th BoS meeting.
	The members of BoS carefully perused the "Action Taken Report (ATR)" presented
	by the Member Secretary Dr. B.S. Benila and expressed their satisfaction and appreciation.

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3	Review of Academic and Adu	ninistrati	ve Audit (AAA) Report 2022-23.			
4	the members of BoS careful suggestions for improvement.a) To conduct minimum two acb) To encourage smart classroodc) Visiting nearby government	ly review ld-on cou om schools a	Benila presented the AAA report criteria-wise and ed the AAA report and proposed the following rses nd make them know basic concepts of Physics ulum obtained from 1) Students, 2) Teachers, 3)			
	Employers, 4) Alumni.					
	Teachers, 3) Employers, 4) Alt from in the academic year 2022 The members of BoS care holders and proposed the follow a) Skill enhancement paper com	umni on the 2-23. efully reveaue wing action ald be elect ment of paper	Feedback Report obtained from 1) Students, 2) he curriculum of B.Sc., M.Sc., and M.Phil. Physics iewed the Feedback Report received from the stake ons to be taken in the curriculum. ctricity related paper with practical related contents arameters etc. in the fourth semester.			
5	Introduction of new courses	from the	academic year 2023-24.			
	curriculum of B.Sc. Physics fro	om the aca	htroduction of the following NEW course(s) in the ademic year 2023-24. (regional/national/global relevance Relevance to the local, national, regional and global developmental needs.			
	Elective : Energy Physics		To know about different forms of energy and the conservation laws, their application			
	Elective: Medical Instrumentation		To know about various devices which of medical use and to study their application and instrumentation			
	Core VII: Industry Module		Practical related theory could be explained through virtual lab. Industry people could be invited and to give training either in person or by virtual mode.			
	2. Courses for employability/ entrepreneurship/ skill development					
	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			
	IOT		For the skill enhancement program, easy portion related IoT (Internet of Things) could be explained practically.			
	3. Value-added courses for	r impartir	ng transferable and life skills (Min. 30 hours)			

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Name of the Course	Course Code	Transferable and life skill development
Add-on Course on Reasoning and Aptitude		To appear for the competitive examinations a to clear it
Dr. C. Ravidhas prop	osed the i	ntroduction of the following NEW course(s)
curriculum of M.Sc. Physics fr 1. Core/Elective courses v		ademic year 2023-24. regional/national/global relevance
Name of the Course	Course Code	Relevance to the local, national, regional and global developmental needs.
i. Elective I -Materials Science		To know about the wide range of materials and their properties to be used for applications
ii. Generic Elective II Advanced Optics		To get clear knowledge of Optical theory and the applications of optical devices
iii. Elective III- Bio Physics		To study a wide array of topics ranging from how nerve cells communicate and how plate cells capture light and transform it in energy.
 iv. Elective IV- Microprocessor 8086 & Microcontroller 8051 / Advanced Spectroscopy 		To become familiar with the basic ideas certain measurements, sensors and sor microcontroller prototypes
v. NME I – Characterization of Materials		To study various characterization materials and their uses
vi. Elective V – Digital Communication		To study about modulation, Analog Digital communication, Audio Processir Optical communication and how the theory is used in applications.
2. Courses for employabi	lity/ entre	preneurship/ skill development
Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development
NME II – Molecular Modeling (Practical Oriented)		Skill Development (Students are expected to have hands on experience in modeling , implementatio and fetch a thorough knowledge in Atomic and Molecular Physics)
Elective VI- IoT		Entrepreneurship (Students will enhance their technical/ computer competency through the use internet)
SEC- Medical Physics	I	Employability (To provide a broad knowledge

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			interaction of Non-Ionizing radiation and			
	ultrasound in tissues and their use in medicine. 3. Value-added courses for imparting transferable and life skills (Min. 30 hours)					
	3. Value-added courses to	or imparting th	ansterable and life skills (Min. 30 nours)			
	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			
	Simple House Hold Wiring	g	Skill development (Students will develop the skill on various types of electrical wiring and other home appliance)			
	Dr. C. James propos	sed the intro	duction of the following NEW PRACTICAL			
	course(s) in the curriculum of I	M.Sc. Physics	from the academic year 2023-24.			
	1. Core/Elective cours	1. Core/Elective courses with local/regional/national/global relevance				
	Name of the Course	Course Code	Relevance to the local, national, regional and global developmental needs.			
	Practical III Micro controller related Programmes		o be able to write Micro controller related rogrammes and execution. Hence to solve nathematical problems.			
	Practical IV MATLAB & Python Numerical Methods Problems	to N	o develop programming skills, and technique o solve mathematical problems using IATLAB as a simulation tool and able to work s a MATLAB programmer.			
	Resolved to introduce the above NEW course(s) in the curriculum of B.Sc. and					
	M.Sc. Physics from the academic year 2023-24. Also resolved to approve the proposed					
	syllabuses for these new courses which are given in Section – I					
6	Revision of syllabuses of existing courses from the academic year 2023-24.					
	Dr. R. Sheela Christy proposed the revision of syllabuses of the following					
	course(s) in the curriculum of B.Sc. Physics from the academic year 2023-24.					
	 For I semester the hours allotted for core and practical are 4 and 4. Number of practical should be at least 8. To split the 3 hours allotted for allied Chemistry as two continuous hours + one hour and the 2 continuous hours can be taken as practical or theory. 					
	Dr. I. Hubert Joe proposed the revision of syllabuses of the following course(s) in					
	the curriculum of M.Sc. Physics from the academic year 2023-24.					
	1. The hours allotted for the practical I is 3 and for practical II, III and IV is 4 and they are taken from the theory hours without changing the credits.					
	Resolved to revise the syllabuses of the above course(s) in the curriculum of B.Sc.					
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	and M.Sc. Physics from the academic year 2023-24. Also resolved to approve the modified syllabuses for these courses which are given in Section – II										
7.	Introduction of field projects/ internships/student projects from the academic year 2023-24										
	Name of the Programme	Semester	Field project/ internship / student project		Duration						
	Internship	V	research lab submit propo	em to various o and make them to posal as one of the internship program	30 days						
	Dr. I. Hubert Joe introduced the following projects/ internships / student projects										
	in the curriculum of M.Sc. Phy	in the curriculum of M.Sc. Physics from the academic year 2023-24.									
	Name of the Programme	Semest	Field project/ internship / student project		Duration						
	Lab to Land program	VI	-	Adopting a village for the extension activity.							
	Resolved to introduce the above field projects/internships/student projects in the										
	Resolved to introduce				curriculum of B.Sc. and M.Sc. Physics from the academic year 2023-24. Also resolved to						
			m the academ	nic year 2023-24. A	Also resolved						
		. Physics from		-							

Industrialist, **Dr. Gilbert Chandra** and one of the Subject Experts, **Dr. I. Hubert Joe** were attended the 16th BoS meeting through online.

Online BoS Link:

https://meet.google.com/hsk-nbyv-rdm

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BOARD OF STUDIES MEMBERS IN PHYSICS DEPARTMENT OF PHYSICS & RESEARCH CENTRE SCOTT CHRISTIAN COLLEGE (Autonomous) NAGERCOIL-629 003

Members who contributed in framing the Curriculum and Syllabi, recommended to the Academic Council.

Prof. A. Charles Hepzy Roy

- Chairman

Faculty Head i/c Department of Physics & Research Centre Scott Christian College (Autonomous), Nagercoil. charleshepzyroy@scottchristian.org +91 9944261881

Dr. R. Sheela Christy

Professor and Head Department of Physics & research Centre, Nesamony Memorial Christian College, Marthandam - 629165 <u>sheelachristy64@yahoo.com</u> +91 9442382469

Dr. C. Ravidhas

Faculty Head PG & Research Department of Physics Bishop Heber College (Autonomous) Thiruchirapalli – 620 017 cravidhas@gmail.com +919443076209

Dr. I. Hubert Joe

Associate Professor Department of Physics University of Kerala Thiruvananthapuram - 695 034 hubertjoe@gmail.com +919447220563

Dr. V. Shally

Assistant Professor, Department of Physics & research Centre Holy Cross College (Autonomous) Kurusady, Nagercoil – 629 002 shally.v@holycrossngl.edu.in +917598854466

Mr. D. Gilbert Chandra

Group Head, Instrumentation, ISRO Propulsion Complex, Mahendragiri– 627 133 gilbertd26@gmail.com +919442180572

- Vice-Chancellor's Nominee

gsmury 24[6]2023 - Subject Expert

- Subject Expert

- Illustrious Alumnus

11/2023

- Industrialist

Dr. C. James

Associate Professor in Physics Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. james@scottchristian.org +919489500237

Dr. C. Besky Job

Associate Professor in Physics Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. beskyjob@scottchristian.org +919487026024

Dr. Y. Premila Rachelin

Assistant Professor in Physics Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. premilarachelin@scottchristian.org +919489620591

Dr. J.V. Bynaja

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Assistant Professor in Physics Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. <u>bynaja@scottchristian.org</u> +919443284135

Dr. V. Anslin Ferby

Assistant Professor in Physics Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. anslinferby@scottchristian.org +919443595694

Dr. B.S. Benila

Assistant Professor in Physics Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. benila@scottchristian.org +919843626563

Dr. Y. Sheeba Sherlin

Assistant Professor in Physics Department of Physics & Research Centre Scott Christian College (Autonomous) Nagercoil. <u>sheebasherlin@scottchristian.org</u> +919442304397

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