

**Kongunadu Arts and Science College (Autonomous)**

**Coimbatore – 641 029**

**Department of Physics**

**Minutes of 14<sup>th</sup> Board of Studies**

The fourteenth board of studies meeting in Physics was conducted on 09.03.2019 at 10.30 AM in Hall No.B-34. Dr.M.Dhanam, Associate Professor and Head welcomed and greeted the members and requested to take up the agenda for discussion and approval.

The following resolutions are approved by the board of studies meeting.

**Item No:1 Confirmation of the minutes of the 13<sup>th</sup> meeting of board of studies.**

Minutes of the 13<sup>th</sup> board of studies were approved by the board.

**Item No:2 Proposal of inclusion of the core paper, 'Mathematical Physics' instead of 'Astrophysics' in UG programme**

Core paper 5-Mathematical Physics (19UPH505) is introduced instead of Astrophysics (18UPH505), based on the representation received from the UG students. The proposal is placed in the board and the board approved the same.

**Item No:3 Proposal of changing the title of core paper 6, 'Optics and Laser Physics (18UPH506)' as 'Optics (19UPH506)'**

V<sup>th</sup> unit (Laser) of the paper 'Optics and Laser Physics' is replaced by optical instruments and the paper is renamed as 'Optics'. The proposal is placed for the approval and the board approved the same.

**Item No:4 Proposal to strengthen the content of the skill based subject (SBS-2), Medical instrumentation**

The board approved to change the V unit of SBS 2, Medical Instrumentation paper (19UPH452).

**Item No:5 Proposal of inclusion and deletion of topics in theory paper in UG programme**

In unit I of core paper I-Properties of Matter and Sound, instead of the general features of g on the earth surface, escape velocity has been included.

**Item No:6 Proposal of changing core practical IV and V**

Core practical IV, 'Electronics, Digital Electronics and Microprocessor (18UPH6C0)' has been revamped as Electronics (19UPH6CO). Core practical V 'Programming in C (18UPH6CP)' is revamped as "Digital electronics and Microprocessor (19UPH6CP).The board approved to have restructured core practical IV and V.

**Item No:7 Proposed list of Major elective papers for UG programme**

The proposed list of major elective papers consists of 6 papers which includes

1. Laser Physics and Fiber Optics, 2. Principles of Communication Systems ,
3. Renewable Energy Sources , 4. Introduction to Biophysics, 5. Materials Science
6. Measurements and Instrumentation.

Four papers (1, 3, 4 and 6 ) are revamped as Major elective papers

**Item No:8 Proposal of prescribing two Major Elective papers**

The Major Elective papers, 'Laser Physics and Fibre Optics (19UPH5E1)' and 'Measurement & Instrumentation (19UPH6E2)' are prescribed instead of 'Principles of Communication Systems (18UPH5E1)' and 'Electronic Instrumentation (18UPH6E2)' respectively. The board approved the proposal after discussion.

**Item No:9 Proposal of introducing project for UG programme instead of Major Elective paper – 3 (Electronic Instrumentation)**

The board discussed and strongly suggested to have the project in the curriculum of UG programme as it will be excellent experience for the students going for higher studies.

**Item No:10 Proposal of introducing Extra Departmental Course (EDC) instead of SBS 3**

Instead of SBS-3 ('Programming in C'), EDC paper 'Physics in Everyday Life (19UPH5X1)' has been introduced and therefore SBS-4, 'Introduction to Microprocessor' has been changed as SBS-3 (19UPH6S3) with the approval of the board.

**Item No:11 Proposal of including internship training in UG programme**

The board recommended to have internship training (19UPH5IT) at the end of IV semester of UG programme for a minimum period of two weeks and submit the report in the V semester.

**Item No:12 Proposal of introducing Add on courses – [Job Oriented Course (JOC) & Advanced Learner Course (ALC)] for UG programme**

The paper "Electrical Appliances: Maintenance and Servicing" is suggested as JOC. The paper "Experimental techniques and Data analysis" is suggested as ALC. The proposal was placed for discussion and the board approved the same.

**Item No:13 Proposal of introducing the new core papers, Condensed Matter Physics – I and Condensed Matter Physics – II in PG programme**

Instead of Modern Optics (18PPH103) and Solid State Physics (18PPH310), Condensed Matter Physics – I (19PPH103) and Condensed Matter Physics – II (19PPH310) are introduced respectively with the approval of the board.

**Item No:14 Proposal of introducing the paper "Problems in Physics" in PG programme**

Considering the suggestions from the PG students, the paper "Problems in Physics" (19PPH206) has been introduced in PG programme. The proposal is placed for the approval of the board and the board appreciated and approved the same after discussion.

**Item No:15 Revamping the core paper “Nuclear and Particle Physics” in PG programme**

The core paper ‘Nuclear and Particle Physics (19PPH412)’ has been revamped and placed for the approval and the board approved the same.

**Item No:16 Inclusion / deletion of some topics in the core paper, “Communication Physics” of PG programme**

In core paper 10, Communication Physics (19PPH410) the topics modulation index, Yagi-Uda antenna are included. Instead of magneto-ionic theory, line of sight (LOS) is included and also considered as self-study topic.

**Item No:17 Updating the list of experiments in PG practicals**

The board approved to update the experiments in Core practical 1- General Experiments (19PPH2CL), Core Practical 2 – Electronic Experiments (19PPH2CM) and Core Practical 3 – Advanced Experiments (19PPH4CM) of PG programme.

**Item No:18 Proposal of introducing two Major Elective Papers in PG programme**

The papers ‘Electronics and Microprocessor (19PPH1E1)’ and (Applied Physics (19PPH2E2) are approved by the board as major elective papers from the proposed list of new four Major Elective papers.

**Item No:19 Proposal of introducing new Non Major Elective Papers**

The papers , “Nanotechnology: Principles and Applications (19PPH3N1)” and “Thin film Physics, Plasma Physics and Crystal growth (19PPH4N2)” are introduced as Non Major Elective papers by the board from the list of four Non-Major Elective papers.

**Item No:20 Proposal of introducing Add on Course (Advanced Learner Courses -ALC) in PG Programme**

The paper “Advanced Experimental Techniques” is prescribed as ALC for PG programme and the proposal has been approved by the board after discussion.

**Item No:21 Proposal of undertaking field trips for UG & PG Programme**

The board suggested to conduct field trips for UG & PG Programmes.

**Item No:22 Proposal of completing SWAYAM – MOOC Course for UG & PG students**

The board suggested to complete SWAYAM-MOOC courses by the students before the completion of V semester for UG programme and before the completion of III semester for PG programme.

**Item No:23 Approval of proposed list of external examiners for ESE question paper setting, practicals and theory evaluation**

The board approved the list of external examiners for ESE question paper setting, practical and evaluation. *of Theory papers.*

**Item No:24 The proposal of ratification for introducing the project in UG programme instead of Major Elective – III (Electronic Instrumentation) for the students admitted during the year (2017-2018) and (2018-2019)**

The proposal placed in the board for ratification was approved by the board.

**Signature of board members****I Chairman : Dr. M. DHANAM**

Associate Professor and Head

M. Dhanam  
9/13/19**II Members :**

- |                           |                     |
|---------------------------|---------------------|
| 1. Dr. K. RAJASEKAR       | Associate Professor |
| 2. Dr. A. ANUKALIANI      | Associate Professor |
| 3. Mr. K. KARUPPUSWAMY    | Assistant Professor |
| 4. Dr. B. CHADER SHEKAR   | Assistant Professor |
| 5. Dr. K. SARAVANAKUMAR   | Assistant Professor |
| 6. Dr. M. SEETHA          | Assistant Professor |
| 7. Dr. P. MATHESWARAN     | Assistant Professor |
| 8. Dr. M. MOHAMED IBRAHIM | Assistant Professor |
| 9. Dr. A. RANJITHA        | Assistant Professor |
| 10. Dr. N.SENTHILKUMAR    | Assistant Professor |
| 11. Dr. S. SELVI          | Assistant Professor |
| 12. Mrs. N. KAMATCHI DEVI | Assistant Professor |
| 13. Ms. D.NADHIYA         | Assistant Professor |
| 14. Dr. B. GOKUL          | Assistant Professor |
| 15. Dr. V. MANIKANDAN     | Assistant Professor |

Leave of absence

A. Anukaliam  
9/13/19

Leave of absence

S. Senthil Kumar  
9/13/19

M. M. Mohamed Ibrahim

S. Ranjitha  
9/13/19N. Senthil Kumar  
9/13/19D. Nadhiya  
9/13/19B. Gokul  
9/13/19**III Subject Experts (2)**

- Dr. M. SRIDHARAN  
Professor in Physics  
Functional Nanomaterials and devices lab  
Centre for Nanotechnology and Advanced Biomaterials  
School of Electrical and Electronics Engineering  
Sastra Deemed University,  
Thanjavur -613401  
Mobile: 90037 66869

Leave of absence

2. Dr. G.VIRUTHAGIRI  
Associate Professor  
Department of Physics  
Government Arts College for Women,  
Kumbagonam - 612001  
Mobile : 94862 23626

*Dr. G. Viruthagiri*  
090319  
Dr. G. VIRUTHAGIRI  
Associate Professor  
Department of Physics  
Govt. College for Women (A)  
Kumbakonam - 612 001

**IV Expert Nominated by the Vice Chancellor (1)**

1. Dr. J. CHANDRASHEKAR  
Associate Professor and Head  
Department of Physics  
Sri Ramakrishna Mission Vidyalaya College of Arts and Science,  
Coimbatore  
Mobile : 98659 02727

Leave of absence

**V Representative from Industry (1)**

1. Dr. R.CHITRA  
Founder and CEO  
Delving R&D  
Coimbatore - 641 006  
Mobile : 98949 95235

Leave of absence

**VI Alumnus (1)**

1. Dr. V. SENTHILKUMAR  
Associate Professor and Head  
Department of Physics  
Karpagan Academy of Higher Education  
(Deemed to be University)  
Coimbatore - 641021  
Mobile : 94439 12108

Leave of absence

**VII Student Members**

1. Ms. GS. MADHUVADHANI  
2. Mr. ARJUN ANAND

II M.Sc. Physics  
III B.Sc. Physics

*Dr. M. Shanam*  
*Dr. M. Shanam*

M. Shanam  
Chairman 9/3/19

*Dr. M. Shanam*  
PRINCIPAL  
KONGUNADU ARTS & SCIENCE COLLEGE  
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Dr. M. DHANAM, M.Sc., M.Phil., Ph.D.,  
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