

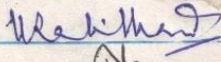




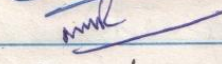
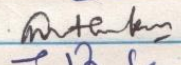
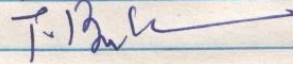
# Board of Studies - Physics (UG) - Meeting

24.02.2015

## Agenda:

To discuss the syllabus to be followed from <sup>the academic year</sup> 2015-2016 onwards.

## Members present:

- 1) Mr. K. Rabi Ahmed - 
- 2) Mr. S. Mohamed Sattik - 
- 3) Mr. S.H. Mohamed Ameen - 
- 4) Mr. A. Jaleel - 
- 5) Mr. S.M. Abdul Kader - 
- 6) Mr. M. Mohamed Rasheem - 
- 7) Dr. C. Muthukrishnan - 
- 8) Dr. T. Balu - 

## Resolutions passed:

- Core paper 1 Thermal Physics  
Core Paper 3 physical optics & Lasers  
are interchanged between the first & second  
semesters to facilitate the understanding of the students.

- Fewer topics of C1 Physical optics & Lasers  
Paper are deleted

Unit I Standardization of metre

II Zone plate

IV semiconductor diode Laser & Argon ion Laser

V Lasers in environmental analysis.



# Board of Studies - Physics (UG) - Meeting

24-02-2015

- In core 2 Basic physics paper

the topic FW is corrected as FW Bridge Rectifier in unit V

- In core 3 Thermal physics paper the following topics of unit I are deleted

- \* Vertical distribution of Brownian motion
- \* Expression for Avogadro's number.

- In core 4 mechanics & Astrophysics paper the topics related to friction are added in unit I

- 1) Friction between solid surfaces
- 2) Coefficients of static kinetic & Rolling friction
- 3) Laws of solid friction.

- The following topics of different units in C5 Electricity paper are omitted.

Unit I Gauss's law application related to cylindrical cal.

Unit II Reciprocity & superposition theorem.

Unit III LR, RC & LCR series circuits only to covered.

Unit V admittance

- In core paper 7 modern physics topics related to Relativity are included by omitting the topics

(i) Stern-Gerlach Experiment.

(ii) Compton theory of scattering & its experiment.

- In core paper 8 Basic Electronics the topic appln of photo diode is omitted in unit I



\* In SBE 2 computer programming C++

creating the source file, compiling & linking of unit I are deleted.

• In CE I Digital Electronics Decade counters to be added in unit IV.

• In CE 2 Introduction to Nanotechnology chapters I & II combined together as Chapter I Chapter V with the title "Environmental Implications of Nanotechnology" is added.

\* In Allied Physics - I topics related to low temperature are deleted from unit V and topics related to Radiation are added.

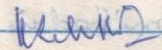
• In Allied physics - II Theorems are deleted from unit IV.

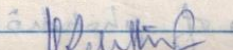
• In NME paper Basic Physics - II the following topics are omitted

• Thermoelectric effects and their applications wherever the topic titled UNIT 7

• Components of computer system is added in unit V instead of by deleting the topics related to propagation of em waves, FM & AM

The Board has approved the new syllabus framed to be followed from ~~the~~ the next academic year (i) 2015-2016 with the above mentioned modifications.

  
CHAIRMAN /

  
DEAN OF SCIENCE

  
PRINCIPAL



# Sadakathullah Appa College

(Autonomous Institution \* ISO 9001 : 2008 Certified\* Re-Accredited with 'A' Grade by NAAC)  
Annexure - I

## Department of Physics (UG)

The Board of Studies of the Department of Physics (UG) was held on 24.02.2015 for the approval of 2015-2018 syllabus. The number of new courses, courses focussing on Skill Development / Employability / Entrepreneurship, the percentage of revision are mentioned below.

### New Courses introduced

S. No.	Title of the Course	Course Code
1	Electromagnetism	15UPHC41
2	Basic Physics – I	15UPHN31
3	Basic Physics – II	15UPHN41

### Courses focused on Skill Development / Employability / Entrepreneurship

S. No.	Title of the Course	Course Code	Category
1.	Physics Core Practical – I	15UPHC2P	Skill Development
2.	Physics Core Practical – II	15UPHC4P	Skill Development
3.	Physics Core Practical – III	15UPHC6P1	Skill Development
4.	Physics Core Practical – IV	15UPHC6P2	Skill Development
5.	Physics Elective Practical	15UPHE6P	Skill Development
6.	Allied Physics Practical	15UPHA4P	Skill Development
7.	Electricity	15UPHC31	Employability
8.	Biomedical Instrumentation	15UPHE5B	Employability
9.	Project	15UPHP61	Entrepreneurship





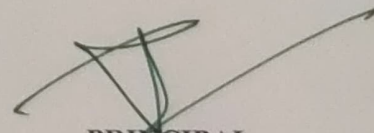
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Percentage of Revision

S. No.	Courses	Course Code	Percentage %
1.	Physical Optics and Lasers	15UPHC11	40%
2.	Thermal Physics	15UPHC21	25%
3.	Mechanics and Astrophysics	15UPHC22	10%
4.	Electricity	15UPHC31	20%
5.	Allied Physics – I	15UPHA31	10%
6.	Basic Physics – I	15UPHN31	100%
7.	Electromagnetism	15UPHC41	100%
8.	Core Physics Practical –II	15UPHC4P	20%
9.	Programming in C++	15UPHS41	10%
10.	Allied Physics – II	15UPHA41	25%
11.	Allied Physics Practical	15UPHA4P	15%
12.	Basic Physics – II	15UPHN41	100%
13.	Modern Physics and Spectroscopy	15UPHC51	40%
14.	Energy Physics	15UPHC53	5%
15.	Digital Electronics	15UPHE5A	5%
16.	Communication Electronics	15UPHC62	15%
17.	Core Physics Practical – III	15UPHC6P1	5%
18.	Core Physics Practical – IV	15UPHC6P2	15%
19.	Introduction to Nanotechnology	15UPHE6A	20%

Total Percentage of Revision: 21.48%

Total number of Courses: 27

  
PRINCIPAL