


Placed in the folder Minutes of BoS meeting in Physics held on 02/07/2020 along with Appendix I- refer r.h.s. 80/C to 2/C.

Submitted for further needful action.

  
(Prof. K.R.S. Priolkar)  
Head, Dept. of Physics  
& Dean, Faculty of Natural Sciences

6/7/2020

AR-PG

Appendix.

Sir will send  
mail to AR  
and c.c

me  
for filing

Adms  
06/07/20

GOA UNIVERSITY  
DEPARTMENT OF PHYSICS  
Form A-7  
(See OA-14 of Part A)

**Minutes of the BOS in Physics meetings held on 2<sup>nd</sup> July 2020**

**BOS committee members remain present for the meeting:**

1. Prof. K. R. Priolkar (Chairman, Dept. of Physics, Goa University)
2. Dr. Bholanath Pahari (Dept. of Physics, Goa University)
3. Dr. Sudhir Cherukulappurath (Dept. of Physics, Goa University)
4. Dr. Jaison Joseph (Govt. College of Arts, Sciences and Commerce, Khandola, Goa)
5. Dr. Shirish Kamat (Govt. College of Arts, Sciences and Commerce, Quepem, Goa)
6. Ms. Mandakini G. S. Kudaiker (PES College, Ponda, Goa)
7. Prof. P. R. Sarode (Goa)
8. Prof. P. B. Vidyasagar (Savitribai Phule Pune University, Pune)
9. Prof. Balaji Prakash (CSIR-CFTRI, Mysore)
10. Prof. Umesh Waghmare (JNCASR, Bengaluru)
11. Prof. Mukul Laad (IMSc, Chennai)

**BOS committee members requested for leave of absence for the meeting**

1. Prof. Satishchandra B. Ogale, (IISER, Pune)
2. Mr. Sanjay Jahagirdar (Govt. College of Arts, Sciences and Commerce, Sanquelim, Goa)

**Special Invitees who attended:**

1. Prof. Ramesh V. Pai (Goa University)
2. Dr. Rajesh Kumar Hyam (Goa University)
3. Dr. Venkatesha Hathwar (Goa University)
4. Dr. Reshma Raut Dessai (Goa University)
5. Dr. Pranav Naik (Goa University)

**Agenda items for the meetings:**

1. Discussion and Approval of Course structure and syllabus of M.Sc. Physics with specialization in Biophysics, Computational Physics and Solid State Physics
2. Any other matter with the permission of the Chair.

**Part-A**

1. Recommendations regarding courses of study in the subject or group of subjects at the Under-graduate level.

NIL

2. Recommendations regarding courses of study in the subject or group of subjects at the Post-graduate level.

Members discussed and approved the course structure and syllabus of the listed courses for M.Sc. Physics with specializations in Biophysics, Computational Physics and Solid State Physics. The members also recommended that syllabi for special optional courses in semester IV for Biophysics and Computational Physics may be framed after the faculty members for these specialization are appointed. The approved course structure and the syllabus is given as Annexure I.

#### **Part-B**

- (i) Scheme of examinations at the under-graduate level  
Non-agenda item
- (ii) Scheme of examinations at the post-graduate level  
Non-agenda item.
- (iii) Panel of examiners for different examinations at undergraduate level  
Non-agenda item
- (iv) Panel of examiners for different examinations at post-graduate level  
Non-agenda item

#### **Part-C**

- (i) Recommendations regarding preparation and publication of selection of reading material in any subject or group of subject and names of persons recommended for appointment to make the selection.

Non-agenda item.

#### **Part-D**

Recommendations regarding general academic requirements in the Department of University or affiliated Colleges.

Non-agenda item.

#### **Part-E**

- (i) Recommendations of text books for the courses of study at the under-graduate level.

Non-agenda item.

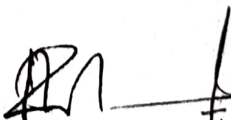
- (ii) Recommendations of text books for the courses of study at the post-graduate level.

Non-agenda item

#### **Part-F**

- (i) The declaration by the Chairman that the minutes were read out by the Chairman at the meeting itself.

Date: 2<sup>nd</sup> July 2020

  
Signature of the Chairman

Place: Goa University

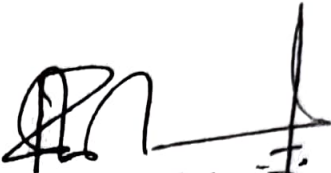
**Part-G**

Remarks of the Dean

- (i) The minutes are in order
- (ii) May be recommended for approval of Academic Council
- (iii) Special remarks if any

Date: 06/07/2020 .

Place: Goa University



Signature of the Dean

**Dean**  
**Faculty of Natural Science**  
**Goa University**  
**Goa**



Semester I		
Course Code	Course Title	Number of credits
PHGC-100*	Bridge course in Mathematical Methods	2
PHGC-101	Mathematical Physics	4
PHGC-102	Classical Mechanics	4
PHGC-103	Electromagnetic Theory	4
Optional courses (any two)		
PHGO-110	Computer Programming in Fortran 95	2
PHGO-111	Computer Programming with C	2
PHGO-112	Electronics Practical	2
PHGO-113	Mini project	2

\*Not included for the calculation of GPA, but should be completed successfully.

Semester II		
Course Code	Course Title	Number of credits
PHGC-106	Quantum Mechanics	4
PHGC-107	Electronics <i>General</i>	4
PHGC-108	Statistical Mechanics	4
Optional courses (any one)		
PHGO-119	General Physics Practical	4
PHGO-120	Methods of Experimental Physics	4

Semester III		
Course Code	Course Title	Number of credits
PHGO-301	Summer Fellowships	2
<b>Solid State Physics</b>		
PHSC-201	Structure, Lattice and Thermal Properties of Solids	3
PHSC-202	Band Theory and Electronic Properties of Solids	3
PHSC-203	Magnetic, Superconducting and Optical Properties of Solids	2
Optional courses (any two)		
PHGO-212	Nuclear physics and Elementary Particle Physics	4
PHGO-213	Laser Physics and its applications	4
PHSO-214	Solid State Physics Practical	4
<b>Computational Physics</b>		
PHCC-221	Advanced Quantum Mechanics	3
PHCC-222	Advanced Statistical Mechanics	3
PHCC-223	Numerical Techniques	2
Optional courses (any two)		
PHGO-212	Nuclear and Elementary Particle Physics	4
PHGO-213	Laser Physics and its applications	4
PHCO-234	Numerical Techniques Practical	4

## Biophysics

PHBC-200*	<u>Introduction to Biology and Biophysics</u>	4
PHBC-241	<u>Molecular Biophysics</u>	4
PHBC-242	<u>Methods in Biophysics</u>	4
Optional courses (any two)		
PHBO-251	<u>Solid State and Biomaterials</u>	4
PHGO-213	<u>Laser Physics and its applications</u>	4
PHBO-252	<u>Biophysics Practical</u>	4

\*Not included for the calculation of GPA, but should be completed successfully.

## Semester IV

[illegible]