



THE IIS UNIVERSITY

deemed to be a university under section 3 of UGC Act., 1956

Minutes for the Twelfth Meeting of the Board of Studies in Physics held on 08.02.2018 at 11.30 a.m. at IISU Campus, Jaipur

The following members were present:

1.	Prof. Pradeep Bhatnagar Dean, Faculty of Science The IIS University, Jaipur	Chairperson
2.	Prof. N. K. Jaiman Department of Physics University of Kota Kota	External Member (Academician)
3.	Prof. K. S. Sharma Advisor, The IIS University, Jaipur	Member
4.	Dr. Nidhi Bhargava	Member
5.	Ms. Akansha Khandelwal	Member
6.	Dr. Rimpay Shukla	Member
7.	Ms. Neeraj Kulhari	Member
8.	Ms. Kanika Maheshwari	Member
9.	Dr. Ritu Jain	Convener

The following members could not attend the meeting:

1.	Prof. Anurag Sharma Head, Department of Physics IIT, Delhi	External Member (Academician)
2.	Mr. Abhishek Jain Gali No. 2 Anandpuram, Gurudwara Road Modi Nagar 201204 U.P.	External Member (Industry Expert)
3.	Ms. Rajni Verma Assistant Professor SMS Medical College Jaipur	External Member Alumna
4.	Mr. Gyanesh Soni	Member





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At the outset, Dean, Prof. Pradeep Bhatnagar welcomed all the members of the BOS.

1. The minutes of the last meeting held on 23.02.2017 were considered and approved.
2. The syllabi of the following programmes/courses for the academic year 2018-2021 (Semesters I-VI) for UG were considered and no changes in the contents were suggested:
 - i. B.Sc (Pass Course)
 - ii. B.Sc , B.Ed.
3. (i) The already approved syllabi for B.Sc. (Pass Course) Physics of the academic Year 2016-17 (Semesters V and VI) and 2017-18 (Semesters III to VI) were considered and approved.
(ii) The already approved syllabi for M.Sc. Physics for the academic year 2017-18 (Semesters III & IV) were considered and approved .
4. The course structure , nomenclature and credit pattern of M.Sc.(Physics) for the academic session 2018-19 offered by the department were approved in the meeting with following changes:
 - a. Two new papers of two credit each, to be introduced in the Syllabi of M.Sc. Physics to acquaint students with the applications of Physics in the following upcoming fields:
 - (i) In Semester I , PHY 127 Astrophysics
 - (ii) In Semester II, PHY 227 Medical Physics
 - b. The syllabus of paper PHY 123 Quantum Mechanics is restructured.
 - c. The nomenclatures and the contents of the following three papers have been changed as the same are to be restructured for more coherent learning of these papers:
 - (i) PHY 222: Numerical Methods and Application of MATLAB to Programming in C++ and Applications of MATLAB
 - (ii) PHY 323: Advanced Quantum Mechanics to Numerical Methods and Computational Physics (new paper)
 - (iii) PHY 423: Introductory Quantum Field Theory to Advanced Quantum Mechanics
5. The BOS Co-opted **Dr. Nidhi Bhargava** as a member of the Examiner's Selection Committee for the academic session 2018- 2019.





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6. The question papers for the Semesters II, IV & VI Examinations, April-May 2017 and Semesters I, III & V Examinations November-December 2017 were reviewed and no suggestions were made.
7. The Examiner's Reports for the Semesters II, IV & VI Examinations, April-May 2017 and Semesters I, III & V Examinations November-December 2017 were reviewed.
8. The panel of examiners was reviewed and some additions were made.
9. BOS members were informed that the University is going to introduce grading system for students to be admitted in the academic session 2018-19, on the similar pattern, as implemented in C.B.C.S. courses.
10. The meeting ended with a vote of thanks.

Dr. Raakhi Gupta
Rector & Registrar

for. Dr. Pradeep Bhatnagar
Prof. Pradeep Bhatnagar
Dean, Faculty of Science

Dr. Ritu Jain
Convener



**Minutes for the Thirteenth Meeting of the Board of Studies in Physics
held on 21.02.2019 at 11.30 a.m. at IISU Campus, Jaipur**

The following members were present:

1.	Prof. Pradeep Bhatnagar Dean, Faculty of Science The IIS University, Jaipur	Chairperson
2.	Prof. N. K. Jaiman Department of Physics University of Kota Kota	External Member (Academician)
3.	Dr. Rajni Verma Assistant Professor SMS Medical College, Jaipur	External Member Alumna
4.	Prof. K. S. Sharma Advisor, The IIS University, Jaipur	Member
5.	Dr. Ritu Jain	Member
6.	Ms. Akansha Khandelwal	Member
7.	Dr. Rimpay Shukla	Member
8.	Mr. Gyanesh Soni	Member
9.	Ms. Neeraj Kulhari	Member
10.	Ms. Kanika Maheshwari	Member
11.	Dr. Nidhi Bhargava	Convener

The following members could not attend the meeting:


1.	Prof. Anurag Sharma Head, Department of Physics IIT, Delhi	External Member (Academician)
2.	Mr. Abhishek Jain Gali No. 2 Anandpuram, Gurudwara Road Modi Nagar 201204 U.P.	External Member (Industry Expert)



At the outset, Dean, Prof. Pradeep Bhatnagar welcomed all the members of the BOS.

1. The minutes of the last meeting held on 08.02.2018 were considered and approved.
2. The syllabi of the following programmes/courses for the academic year 2019-2022 (Semesters I-VI) for UG were considered and no changes in the contents were suggested:
 - i. B.Sc (Pass Course)
 - ii. B.Sc B.Ed.
3. The syllabus of M.Sc. (Physics) for the academic session 2019-20 offered by the department was approved in the meeting with a change in course content of paper in Semester II, PHY 227 (Medical Physics)
4. The Credit template of new Programme viz. B.Sc. (Honours) Physics- Semesters I to VI (2019-22) was considered & approved. The syllabus of the same programme were approved for semesters I to IV (2019-21).
5. The following already approved syllabi of various Programmes/Courses for the academic year 2017-18 (Semesters V and VI) and 2018-19 (Semesters III to VI) were reviewed and approved:
 - i) B.Sc. (Pass course), B.Sc. B.Ed.
 - ii) M.Sc.
6. The BOS Co-opted **Dr. Rimpay Shukla** as a member of the Examiner's Selection Committee for the academic session 2018- 2019.
7. The question papers for the Semesters II, IV & VI Examinations, April-May 2018 and Semesters I, III & V Examinations November-December 2018 were reviewed.
8. The Examiner's Reports for the Semesters II, IV & VI Examinations, April-May 2018 and Semesters I, III & V Examinations November-December 2018 were reviewed.
9. The panel of examiners was reviewed and some additions were made.
10. The meeting ended with a vote of thanks.


Dr. Raakhi Gupta
Registrar


Prof. Pradeep Bhatnagar
Dean, Faculty of Science


Dr. Nidh Bhargava
Convener



IIS (deemed to be University), Jaipur
DEPARTMENT OF PHYSICS
Courses of Study for B.Sc (Hons.)
Six Semester Programme
Credit template (2020 - 2021)

Semester I

S.No	Paper code	Paper title	Type of paper	Contact Hours		Credits	Max. marks	Min. marks
				Per Semester	Per Week			
1.	PHY 111	Mechanics	Theory	45	3	3	100	40
2.	PHY 112	Electromagnetism	Theory	45	3	3	100	40
3.	PHY 113	Electrical Technology	Theory	45	3	3	100	40
4.	PHY 114	Computer Programming	Theory	45	3	3	100	40
5.	PHY 115	Lab Course I	Practical	60	4	2	100	40
6.	PHY 116	Lab Course II	Practical	60	4	2	100	40
Total Credits						16		

Semester II

S.No.	Paper code	Paper title	Type of paper	Contact Hours		Credits	Max. marks	Min. marks
				Per Semester	Per Week			
1.	PHY 211	Oscillations and Waves	Theory	45	3	3	100	40
2.	PHY 212	Optics	Theory	45	3	3	100	40
3.	PHY 213	Basic Instrumentation	Theory	45	3	3	100	40
4.	PHY 214	Bio Physics I	Theory	45	3	3	100	40
5.	PHY 215	Lab Course I	Practical	60	4	2	100	40
6.	PHY 216	Lab Course II	Practical	60	4	2	100	40
Total Credits						16		



Semester III

S.No.	Paper code	Paper title	Type of paper	Contact Hours		Credits	Max. marks	Min. marks
				Per Semester	Per Week			
1.	PHY 311	Thermodynamics & Statistical Physics	Theory	45	3	3	100	40
2.	PHY 312	Electronics	Theory	45	3	3	100	40
3.	PHY 313	Laser & Optical Fiber	Theory	45	3	3	100	40
4.	PHY 314	Bio-Physics II	Theory	45	3	3	100	40
5.	PHY 315	Lab Course I	Practical	60	4	2	100	40
6.	PHY 316	Communication Skills: Seminar	Seminar	30	2	2	100	40
Total Credits						16		

Semester IV

S.No.	Paper code	Paper title	Type of paper	Contact Hours		Credits	Max. marks	Min. marks
				Per Semester	Per Week			
1.	PHY 411	Mathematical Physics & Numerical Methods	Theory	45	3	3	100	40
2.	PHY 412	Condensed Matter Physics and Devices	Theory	45	3	3	100	40
3.	PHY 413	Chemistry of Materials	Theory	45	3	3	100	40
4.	PHY 414	Digital Electronics	Theory	45	3	3	100	40
5.	PHY 415	Lab Course I	Practical	60	4	2	100	40
6.	PHY 416	Lab Course II	Practical	60	4	2	100	40
Total Credits						16		



Semester V

S.No.	Paper code	Paper title	Type of paper	Contact Hours		Credits	Max. marks	Min. marks
				Per Semester	Per Week			
1.	PHY 511	Quantum Physics	Theory	45	3	3	100	40
2.	PHY 512	Nuclear & Particle Physics	Theory	45	3	3	100	40
3.	PHY 513	Application of MATLAB in Physics	Theory	45	3	3	100	40
4.	PHY 514(A)	Material Science	Theory	45	3	3	100	40
5.	PHY 514(B)	Renewable Energy-I	Theory	45	3	3	100	40
6.	PHY 515	Lab Course I	Practical	60	4	2	100	40
7.	PHY 516	Project	Project	60	4	2	100	40
Total Credits						16		

Semester VI

S.No	Paper code	Paper title	Type of paper	Contact Hours		Credits	Max. marks	Min. marks
				Per Semester	Per Week			
1.	PHY 611	Atomic & Molecular Spectroscopy	Theory	45	3	3	100	40
2.	PHY 612	Information Communication Technology	Theory	45	3	3	100	40
3.	PHY 613	Astronomy	Theory	45	3	3	100	40
4.	PHY 614(A)	Elements of Nanoscience and Nanotechnology	Theory	45	3	3	100	40
5.	PHY 614(B)	Renewable Energy-II	Theory	45	3	3	100	40
6.	PHY 615	Lab Course I	Practical	60	4	2	100	40
7.	PHY 616	Lab Course II	Practical	60	4	2	100	40
Total Credits						16		

