

## Minutes of the board of studies meeting

Department of Applied Physics, Amity University Haryana

Date: 25<sup>th</sup> July 2016; Time: 3:00 Pm onwards Venue: HoI, ASAS, office, AUH.

The following points were discussed in the meeting:

1. Revision of the program structure and syllabus of B.Sc. (H) Physics.
2. Revision of the program structure and syllabus of M.Sc. Applied Physics.
3. Proposal of integrated M. Phil + PhD in Physics.

The suggestions of the reviewer and members are as follows:

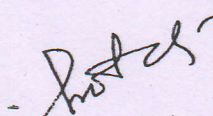
- The program structure and syllabus of B.Sc. (H) Physics was approved with following changes. The copy of the revised program structure is enclosed.
  - Special theory of relativity (1<sup>st</sup> semester) is replaced with properties of matter.
  - Classical mechanics was replaced by mathematical physics III.
  - In the revised program structure there shall be only three papers of applied mathematics (four in the earlier program structure).
  - A new course on accelerators and detectors have been introduced in the 6<sup>th</sup> semester.
  - Some of the subjects have been reshuffled to rationalize the program delivery,
  - Syllabi of the various subjects have been revised,
- The program structure for the M.Sc. Applied Physics was revised thoroughly. The copy of the revised program structure is enclosed.
  - The credits of the already existing project work (30 credit) in the 4<sup>th</sup> semester was reduced to 15 credits. To compensate the credits two compulsory and one elective subject was introduced in the 4<sup>th</sup> semester.
  - In addition to synchronize the teaching learning process some of the labs and courses were reshuffled.
  - The external expert and the other committee members were of the opinion that the time table of the 4<sup>th</sup> semester students must be framed in such a way to have at least two days in a week free to the students to carry out the project work.

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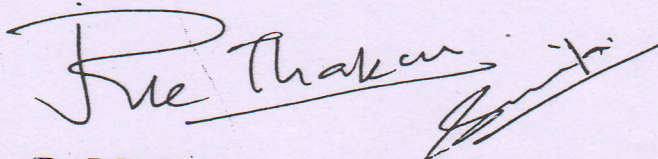


- The suggestion to add two more elective courses non-linear dynamics and Bio physics in semester 3 and 4 respectively. .
- The syllabus of the same shall be prepared in consultations with the expert member in due course before the commencement of 2<sup>nd</sup> year.
- The new program structure shall be implemented from this year onwards for the fresh batch.
- Proposal of integrated M. Phil + PhD in Physics was discussed and approved. The details of the same is attached herewith.

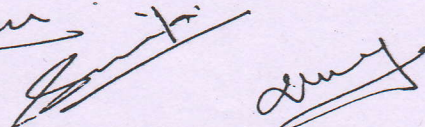
Attendees:



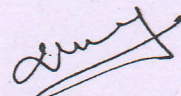
(Dr. P. K. Mohanty, SINP, Kolkata)



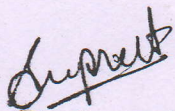
(Dr. R.K. Thakur)



(Dr. Sunita Negi)



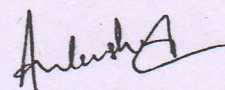
(Dr. Shashikant)



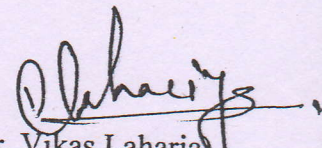
(Dr. Supreet)



(Dr. Chander Shekhar)



(Dr. Ankush Vij)



(Dr. Vikas Laharia)



Modifications recommended by the Subject Expert during Board of Studies Meeting held on 25<sup>th</sup> July, 2016 for BSc Physics (H) course

Program	Existing	Proposed	Remarks	
BSc Physics Honours	1 <sup>st</sup> Sem	Mechanics(PHY2101)	Modified syllabus	
		Properties of Matter	New Course added	
		Applied Mathematics I (PHY2105)	Modified syllabus	
	2 <sup>nd</sup> Sem	Thermodynamics (PHY 2201)		Modified syllabus
		Applied Mathematics I I(PHY2205)		Modified syllabus
		Applied chemistry II		Modified syllabus
	3 <sup>rd</sup> Sem	Classical Mechanics (PHY2302)	Removed	Removed after the suggestion by expert ; relevant concepts are accommodated partially in Mechanics & in Mathematical Methods III (newly added)
		Applied Mathematics III	Removed	Relevant topics are included in Mathematical Physics III
		Quantum Mechanics ( PHY2307)	Shifted from IV to III sem	Modified syllabus
		Mathematical Physics II ( PHY2308)	Shifted from IV to III sem	Syllabus no change
	4 <sup>th</sup> Sem	Mathematical Physics III (PHY 2409)	New Course added	Syllabus Prepared
		Electrodynamics (PHY2407)	Shifted from VI to IV sem	Syllabus Modified
		Applied Mathematics IV( PHY2405)	Shifted from IV Sem to V Sem	Syllabus Modified , Renamed as Applied Mathematics III
		Statistical Mechanics ( PHY2408)	Shifted from V to IV Sem	Syllabus Modified
	5 <sup>th</sup> Sem	Solid State Physics ( PHY2506)	Name changed from Condensed Matter Physics	Syllabus modified
		Digital Electronics and communication ( PHY2507)	Shifted from VI sem to V sem	Syllabus no change
		Nuclear Physics (PHY 2503)	Credit reduction (4 to 3)	Syllabus Modified
		Applied Mathematics III( PHY2508)	Shifted from IV Sem	Syllabus Modified
		Applied Mathematics Lab III (PHY2509)	New Course ( 1 credit; 2 hour lab) Added	Syllabus Prepared
		Summer Project (Evaluation) PHY2535	Credit Reduction (6 to 3)	A New NTCC Course ( Dissertation) of 3 credits is introduced in the Final (VI) Sem
	6 <sup>th</sup> Sem	Accelerators and Detectors (PHY2607)	New Course (3 Credit) Added	Syllabus prepared
		Introduction to Nanotechnology ( 2606)	Name changed from Nanotechnology	Syllabus no change
		Dissertation (PHY2637)	New NTCC Course (3c) added	NTCC Course

Amishwar  
25/07/16

Dahariya

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Modification recommended by the Subject Expert during Board of Studies Meeting held on 25<sup>th</sup> July 2016 for MSc.(AP) course

Program	Existing Semester	Course Name & Course Code	Proposed
Semester 1		Electromagnetic Theory (PHY4104)	Shifted to 2 <sup>nd</sup> Sem with name changed as Electrodynamics(PHY4210)
		Computer Programming using C language(PHY4105)	Changed to Computational Physics-I(PHY4110) with syllabus change
		Electronics Lab(PHY4106)	Changed to Integrated Physics Lab-I (PHY4211)
		Computer Programming Lab Using 'C' Language(PHY4107)	Merged with Integrated Physics Lab-I (PHY4211)
Semester 2		Solid State Physics(PHY4201)	Introduced as Condensed Matter Physics-I(PHY4209) & Condensed Matter Physics-II(PHY4315) in 2 <sup>nd</sup> and 3 <sup>rd</sup> Sem respectively
		Quantum Mechanics(PHY4203)	Introduced as Quantum Mechanics-I(PHY4109) & Quantum Mechanics(PHY4208) in 1 <sup>st</sup> and 2 <sup>nd</sup> Sem respectively
		Numerical Methods & Data Analysis(PHY4204)	Renamed as Computational Physics-II(PHY4211) with syllabus change
		Solid State Physics Lab(PHY4205)	Changed as Integrated Physics Lab-II(PHY4212)
		MAT Lab(PHY4206)	Removed and introduced Quantum Mechanics II(PHY4208)
	Seminar (PHY4207)	Credit reduced to 4 from 6	
Semester 3		Nuclear Physics(PHY4302)	Shifted to 4 <sup>th</sup> Sem with PHY4401
		Laser & Fiber Optics Lab(PHY4304)	Renamed as Merged and renamed as Integrated Physics Lab-III(PHY4316)
		Optics Lab(PHY4305)	Renamed and shifted to 4 <sup>th</sup> Sem as Integrated Physics Lab-IV(PHY4403)
		Elective Paper, Non-conventional Energy Sources(PHY4308)	Name changed as Renewable Energy Resources(PHY4317)
		Elective Paper, Nanotechnology(PHY4309)	Shifted to 4 <sup>th</sup> Sem as Nano-Science & Technology(PHY4404)
		Elective Paper, Experimental Techniques(PHY4310)	Introduced as Core paper Experimental Techniques-I and Experimental Techniques-II in 3 <sup>rd</sup> and 4 <sup>th</sup> Sem respectively
		Elective Paper, Optical Fibers	Shifted to 4 <sup>th</sup> Sem as Optical Fibers



Modification recommended by the Subject Expert during Board-of Studies Meeting held on 25<sup>th</sup> July 2016 for MSc.(AP) course

	and Communications(PHY4311)	and Communications(PHY4407) as elective
	Elective Paper, Astrophysics(4312)	Introduced as Introduction to Astrophysics(PHY4318)
		Introduced Elective Paper, Non-linear Dynamics(PHY4319)
Semester 4	Research Based Project	Renamed as Minor Research Based Project(PHY4437) with credit reduced from 30 to 15
	Elective Paper of 4 credit introduced	PHY4405: Atmospheric Physics PHY4406: General Relativity & Cosmology PHY4408: Physics of Solar Photovoltaics PHY4409: Biophysics



