



AMITY UNIVERSITY

HARYANA

Established vide Government of Haryana Act No. 10 of 2010

AUH/ASAS/BOS/0004/2018

Jan 19, 2018

NOTICE

The Amity School of Applied Sciences, BOS meeting for Applied Physics will be held on Jan 19, 2018 from 11:00 am at room no. D-310, ASAS, AUH.

Agenda of the meeting is enclosed please.

Prof. (Dr.) A. K. Yadav
Head of Institute (HOI), ASAS, AUH

To:
VC
DVC
PVC
Dean Science and Technology
All members of the BOS



AMITY UNIVERSITY

HARYANA

Established vide Government of Haryana Act No.10 of 2010

BOARD OF STUDIES MEETING

DATE	Jan 19, 2018
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TIME	11:00AM
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VENUE:	D-BLOCK, 3RD FLOOR, ROOM NO. 310 AMITY SCHOOL OF APPLIED SCIENCES AMITY UNIVERSITY HARYANA AMITY EDUCATION VALLEY PANCHGAON (MANESAR)- 122413 GURGAON
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AMITY UNIVERSITY

HARYANA

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Amity School of Applied Sciences

Board of Studies

Date: 19-Jan-2018

Chairman: Prof. (Dr.) Anil Kumar Yadav
Head of Institute (HOI), ASAS. ✓

Internal Experts

Members:

1. Dr. R. K. Thakur
2. Dr. Ayana Bhaduri
3. Dr. Sunita Negi
4. Dr. Chander Shekhar
5. Dr. Preeti Thakur

R. K. Thakur
19/01/18

Ayana Bhaduri
19/01/18

Sunita Negi
19/01/18

Chander Shekhar
19/01/18

Preeti Thakur
19/01/18

Special Invitee:

1. Dr. Atul Thakur
2. Dr. Brijesh Kumar

Atul Thakur
19/01/18

Brijesh Kumar
19/01/18

External Experts

1. Dr. Sanjay Kumar Dahiya
Professor & Head
Department of Physics
MDU, Rohtak.

Sanjay Kumar Dahiya
19/01/18



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AGENDA ITEMS

APPROVAL OF FOLLOWING COURSES

The following points will be discussed in the meeting:

1. Modification of Course Structure in BSc Physics Honours
2. Syllabus for the following courses of BSc Physics Honours have been modified
 - a. Thermodynamics (Sem 2nd)
 - b. Analog Electronics (Sem 3rd)
 - c. Digital Electronics (to be shifted from 6th Sem to 4th Sem)
[Details Attached]
3. Addition of a new concentrative elective subject Entitled Semiconductor Physics and Devices in 6th Semester
4. Modification of Course Structure in MSc Physics
5. Syllabus for the following courses of MSc Applied Physics have been modified
 - a. Electronics (Sem I)
 - b. Experimental Techniques II (Sem 4th)
 - c. Material Science (Sem 3rd, Elective)
 - d. Nano Science and Technology (Sem 4th, Elective)
[Details Attached]

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Modifications recommended by the Subject Expert during Board of Studies Meeting held on 19th Jan 2018 for BSc Physics (H) course

Program	Existing	Existing	Proposed	Remarks	
BSc Physics Honours	1 st Sem			No Change	
	2 nd Sem			Modifications in the syllabus of Thermodynamics (PHY 2201)	
	3 rd Sem			Modification in Analog Electronics PHY2303)	
	4 th Sem	MP III(PHY 2409) is to be shifted to VI Sem from IV Sem		Digital Electronics (PHY) shifted from VI th to IV th Sem)	The Physics Lab IV comprises experiments based on Digital Electronics and Communication. Hence it is desirable to go theory and Laboratory experiments in Same semester. The Syllabus of Digital Electronics and Communication is modified as well
	5 th Sem	No Major change		No Major change	
	6 th Sem			Semiconductor Physics (PHY) could be added as Concentrative Elective subject	
		Digital Electronics (PHY 2608) is to be shifted from VI th to IV th Sem		MP III (shifted to VI Sem from IV Sem)	Interchange of subjects Digital Electronics (Existing Vi Sem) to Mathematical Physics III (Existing IV Sem)
MSc Applied Physics	1 st Sem			Modifications in the Syllabus of Electronics	
	2 nd Sem	Electrodynamics (PHY 4213) is to be shifted from II Sem to 3 rd Sem		Atomic & Molecular Physics (shifted from 3 rd Sem to 2 nd Sem)	Interchange of Atomic and Molecular Physics and Nuclear Physics
	3 rd Sem	Atomic & Molecular Physics (PHY 4301) is to be shifted from 3 rd Sem to 2 nd Sem		Electrodynamics (shifted from II Sem to 3 rd Sem)	Modification in the Syllabus of Material Science(PHY4307)
	4 th Sem				Modification in the Syllabus of Experimental Techniques (PHY4402) and Nanoscience and Technology (PHY 4404)

In nutshell, there is no change in the total credits in any semester, just one subject added as a Concentrative elective subject *(Semiconductor Physics in VI Sem) in BSc Physics Honours Course.

Moreover, for the coherence of the course structure and thinking about the prerequisite nature of theory and practicals to go hand in hand, Digital Electronics (VI Sem) is shifted to IV semester and Mathematical Physics III (IV Sem) is shifted to VI Sem as it is of advanced nature.

In MSc Applied Physics also to keep the coherence we want to keep the Atomic and Molecular Physics , Solid state Physics and Nuclear and Particle Physics in same Semester. Electrodynamics is shifted to 3rd Semester

Ali
19/01/18

Sanjiv Kumar
19/01/18

Shamir Bhandari
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19/01/18

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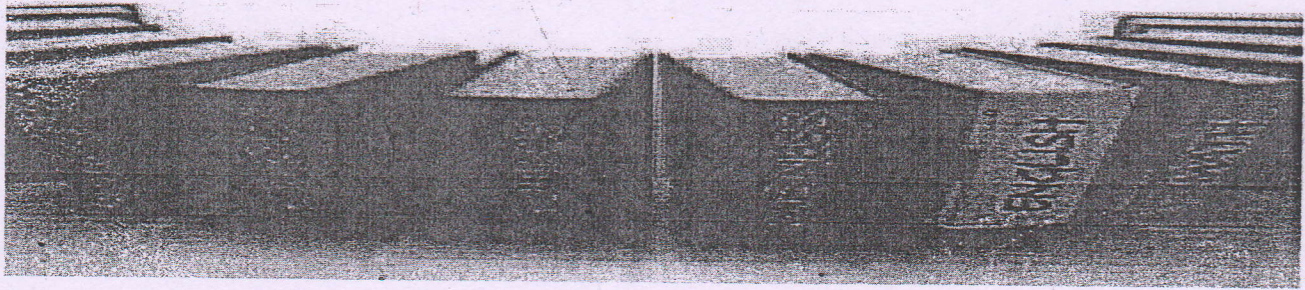
Following members were present in the BOS meeting.

Sr. No	Name		Sign
1	Dr. A. K. Yadav	Chairman	
EXTERNAL EXPERTS			
1	Dr. Sanjay Kumar Dahiya	Member	 19/01/18
INTERNAL EXPERTS (Physics Faculty Members)			
Department of Applied Physics			
1	Dr. R. K. Thakur	Member	 19/01/18
2	Dr. Vinesh Attatappa	Member	
3	Dr. Sunita Negi	Member	 19/01/18
4	Dr. Ayana Bhaduri	Member	 19/1/18
5	Dr. Chander Shekhar	Member	 19/01/2018
6	Dr. Abhinav Dubey	Member	
7	Dr. Shalendra Kumar	Member	On leave
8	Dr. Ankush Vij	Member	
9	Dr. Preeti Thakur	Member	 19/01/18
10	Dr. Vikas Lahariya	Member	 19/1/18
11	Mr. Anupam Vyas	Member	Absent
Special Invitees			
1.	Dr. Brijesh Kumar		 19/01/2018
2.	Dr. Atul Thakur		

Bachelor of Science (Honors) Physics

FLEXILEARN

-Freedom to design your degree



Program Structure

Curriculum & Scheme of Examination

July 2018 (Suggested by the Expert in BOS held on 19th Jan 2018)

AMITY UNIVERSITY HARYANA

Alka
19/01/2018

Shikha
19/01/18

Alina
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GURGAON

Programme Structure- B.Sc (Honors) Physics (Revised)

FIRST SEMESTER					
Course Code	Course Title	Lectures (L) Hours Per Week	Tutorial (T) Hours Per Week	Practical (P) Hours Per Week	Total Credits
PHY2101	Mechanics	2	1	-	3
PHY2102	Waves & Oscillations	2	1	-	3
PHY 2108	Properties of Matter	2	1	-	3
PHY2105	Applied Mathematics- I	2	1	-	3
PHY2106	Applied Chemistry -I	2	-	-	2
PHY2107	Applied Chemistry Lab-I	-	-	2	1
PHY2104	Physics Lab-I	-	-	4	2
Open electives					7*+3
	Foreign Language -I*	3	-	-	3
LAN2151	French- I				
LAN2152	German-I				
LAN2153	Spanish-I				
LAN2154	Russian-I				
LAN2155	Chinese-I				
LAN2156	Portuguese-I				
CSS2151	Effective Listening *	1	-	-	1
BEH2151	Understanding Self for Effectiveness*	1	-	-	1
ENV2151	Environmental Studies I*	2	0	0	2
TOTAL					27

SECOND SEMESTER					
Course Code	Course Title	Lectures (L) Hours Per Week	Tutorial (T) Hours Per Week	Practical (P) Hours Per Week	Total Credits
PHY2201	Thermodynamics	2	1	-	3
PHY2202	Optics	2	1	-	3
PHY2203	Mathematical Physics-I	2	1	-	3
PHY2205	Applied Mathematics-II	2	1	-	3
PHY2206	Applied Chemistry-II	2	-	-	2
PHY2207	Applied Chemistry-II Lab	-	-	2	1
PHY2204	Physics Lab-II	-	-	4	2
Open Electives					7*+3

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LAN2251	Foreign Language – II*	3			3
LAN2252	French- II				
LAN2253	German-II				
LAN2254	Spanish-II				
LAN2255	Russian-II				
LAN2256	Chinese-II				
LAN2256	Portuguese-II				
CSS2251	Presentation Skills *	1			1
BEH2251	Problem Solving and Creative Thinking*	1			1
ENV2251	Environmental Studies II*	2	0	0	2
	TOTAL				27

THIRD SEMESTER

Course Code	Course Title	Lectures (L) Hours Per Week	Tutorial (T) Hours Per Week	Practical (P) Hours Per Week	Total Credits
PHY2301	Electricity & Magnetism	2	1		3
PHY2309	Classical Mechanics	2	1		3
PHY2303	Analog Electronics	2	1		3
PHY2308	Mathematical Physics II	2	1		3
PHY2304	Physics Lab- III			4	2
Concentration Electives					3
PHY2306	Computer programming in C/Matlab	2	1	0	3
PHY2331	Term Paper				2
PHY2332	Project (with Presentation & Evaluation)				3
PHY2333	Workshop / Certification (Discipline Specific) (1credit per workshop)				1
PHY2334	Study Abroad (12 days)				3
Open Electives					4*+3
LAN2351	Foreign Language – III*	2			2
LAN2352	French- III				
LAN2353	German-III				
LAN2354	Spanish-III				
LAN2355	RussianIII				
LAN2356	Chinese-III				
LAN2356	Portuguese-III				
CSS2351	Reading & Comprehension *	1			1
BEH2351	Group Dynamics and Team Building*	1			1
	TOTAL				24

Alan
19/01/18

John
19/01/18

John
19/01/2018

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FOURTH SEMESTER					
Course Code	Course Title	Lectures (L) Hours Per Week	Tutorial (T) Hours Per Week	Practical (P) Hours Per Week	Total Credits
PHY2407	Electrodynamics	2	1	-	3
PHY2410	Quantum Mechanics (Shifted from III)	2	1	-	3
PHY2408	Statistical Mechanics	2	1	-	3
	Digital Electronics	2	1	-	3
PHY2404	Physics Lab-IV	-	-	4	2
Concentration Elective					3
PHY2406	Laser Physics	2	1	-	3
PHY2431	Term Paper	-	-	-	2
PHY2432	Project (with Presentation & Evaluation)	-	-	-	3
PHY2433	Workshop / Certification (Discipline Specific) (1credit per workshop)	-	-	-	1
PHY2434	Study Abroad (12 days)	-	-	-	3
Open Electives					4*+3
	Foreign Language – IV*	2	-	-	2
LAN2451	French- IV				
LAN2452	German-IV				
LAN2453	Spanish-IV				
LAN2454	Russian-IV				
LAN2455	Chinese-IV				
LAN2456	Portuguese-IV				
CSS2451	Corporate Communication*	1	-	-	1
BEH2451	Stress and Coping Strategies*	1	-	-	1
	TOTAL				24

SUMMER PROJECT

FIFTH SEMESTER					
Course Code	Course Title	Lectures (L) Hours Per Week	Tutorial (T) Hours Per Week	Practical (P) Hours Per Week	Total Credits
PHY2506	Solid State Physics	2	1	-	3
PHY2510	Atomic & Molecular Physics	2	1	-	3
PHY2503	Nuclear and Particle Physics	2	1	-	3
PHY2504	Physics Lab-V	-	-	4	2

Handwritten signatures and dates:
 Ali - 19/01/18
 Sun Chuan - 19/01/18
 SB - 19/1/18
 Pmt - 19/01/18
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PHY2508	Applied Mathematics III	3		0	3
PHY2509	Applied Mathematics III lab			2	1
PHY2535	Summer Project (Evaluation)				3
Concentration Electives					3
PHY2505	Spectroscopy	2	1		3
	Introduction to Astronomy	2	1		3
PHY2531	Term Paper	-	-	-	2
PHY2533	Workshop / Certification (Discipline Specific) (1 credit per workshop)	-	-	-	1
PHY2534	Study Abroad (12 days)	-	-	-	3
Open Electives					4*+3
	Foreign Language -V*	2			2
LAN2551	French-V				
LAN2552	German-V				
LAN2553	Spanish-V				
LAN2554	Russian-V				
LAN2555	Chinese-V				
LAN2556	Portuguese-V				
CSS2551	Employability Skills *	1			1
BEH2551	Individual ,Society and Nations*	1			1
	TOTAL				28

SIXTH SEMESTER					
Course Code	Course Title	Lectures (L) Hours Per Week	Tutorial (T) Hours Per Week	Practical (P) Hours Per Week	Total Credits
PHY2607	Accelerators and Detectors	2	1		3
	Mathematical Physics III	2	1		3
PHY2604	Introduction to Nanotechnology	2	1		3
PH2637	Final Semester Projects				3
Concentration Electives					3
PHY2605	Low Temperature Physics and Superconductivity	2	1		3
	Semiconductor Physics and Devices	2	1		3
PHY2631	Term Paper				2

Ali 19/01/18
Sun 19/01/18
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Shah 19/01/2018
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PHY2632	Project (with Presentation & Evaluation)	-	-	-	3
PHY2633	Workshop / Certification Discipline Specific) (1 credit per workshop)	-	-	-	1
PHY2634	Study Abroad (12 days)	-	-	-	3
Open Electives					2*+3
CSS2651	Workplace Communication *	1	-	-	1
BEH2651	Interpersonal Communication and Relationship Management*	1	-	-	1
	TOTAL				20
Grand Total Credit (27+27+24+24+28+20)=150					

Alm
19/01/18

D
19/1/18

John
19/01/18

Paul
19/01/18

Sita
19/01/18

Bridget
19/01/18

John
19/01/18

Andrew

John Chau
19/01

Vibha

W