

B.I.T., Mesra, Ranchi
Department of Applied Physics

Minutes of Board of Studies (BOS) Meeting held on 16-17 APRIL, 2018

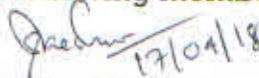
17.04.2018

A Board of Studies (BOS) Meeting was held during 16-17 April, 2018 in Seminar Hall-I R&D Building, BIT, Mesra for a thorough discussion as well as approval of CBCS Model Syllabus of IMSc. (Physics) & MSc. (Physics).

Minutes

1. CBCS Model Syllabus for MSc. & IMSc has been finalized.
2. The basic criteria of UGC have been followed in preparing the course structure of this programme.
3. The Exit option with B.Sc. (Physics Honours) can be offered to the student who wants to opt it after successful completion of 6th semester.
4. For the purpose of Award of Honours degree the basis would be Physics papers exclusively. The total credit for B. Sc. (Physics Honours) would be 144.
5. Parallel entry to the programme is allowed in 7th semester in the form of M.Sc. programme.
6. The total credit for M. Sc. (2 year) under lateral entry would be 80 credit.
7. The credit after the completion of 10 semesters IMSc programme would be 224.

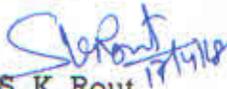
The following members of Board of Studies were present:


17/04/18
HOD, Ex-Officio
Chairperson

Dr. S. Konar
Member


Dr. (Mrs.) S. Keshri
Member

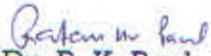

Dr. S. K. Sinha
Member


17/4/18
Dr. S. K. Rout
Member


Dr. Nishi Srivastava
Member

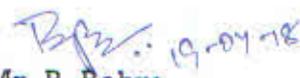

Dr. (Mrs.) Usha Jha
Member


Dr. S. K. Ghorai
Member


Dr. R. K. Paul
Invited Member


17/04/2018
Dr. P. K. Datta
Professor, IIT Kharagpur
External Member


17/4/18
Dr. Anil Kr. Nirala
Professor, IIT, Dhanbad
External Member


19-04-18
Mr. B. Behra
Student of 10th Sem (IMSc.)
Invited Member

CBCS based Syllabus for

IMSc (Physics) (1st -10th Semester)

and

MSc. (1st – 4th Semesters)



**Department of Physics
B.I.T Mesra, Ranchi**

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IMSc (Physics)

Semester-I

Code no.	Name of the subjects	L	T	P	C
THEORY					
PH 101	Mechanics	4	0	0	4
PH 102	Electricity & Magnetism	4	0	0	4
	Technical English	3	0	0	3
	Mathematics -I	5	1	0	6
SESSIONAL / LABORATORY					
	Mechanics Lab	0	0	4	2
	Electricity & Magnetism Lab	0	0	4	2
	English Language Lab	0	0	0	0
EXTRA CURRICULAR ACTIVITY					
	NCC/ NSS/PT & Games/ Creative Art				1
Total					22

Semester-II

Code no.	Name of the subjects	L	T	P	C
THEORY					
PH 201	Mathematical Physics-I	4	0	0	4
PH 202	Waves and Optics	4	0	0	4
CH	Chemistry I	4	0	0	4
ES	Environmental Science	2	0	0	2
ES	Basics of Computer Science / Basics of Electrical Engineering / Basics of Electronics / Basics of Mechanical Engg	3	0	0	3
SESSIONAL / LABORATORY					
PH 203	Mathematical Physics-I Lab	0	0	4	2
PH 204	Waves and Optics Lab	0	0	4	2
CH	Chemistry I Lab	0	0	3	1.5
ES	Computer Science Lab / Electrical Engineering Lab / Electronics Lab/ Mechanical Engg Lab	0	0	3	1.5
EXTRA CURRICULAR ACTIVITY					
	NCC/ NSS/PT & Games/ Creative Art				1
Total					25

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Semester-III

Code no.	Name of the subjects	L	T	P	C
THEORY					
PH 301	Thermal Physics	4	0	0	4
PH 302	Digital Systems and Applications	4	0	0	4
PH 303	Classical Dynamics	4	1	0	5
	Mathematics -II	5	1	0	6
	Open Elective-I (Annexure I)	3	0	0	3
SESSIONAL / LABORATORY					
PH 304	Thermal Physics Lab	0	0	4	2
PH 305	Digital Systems & Applications Lab	0	0	4	2
	Open Elective Lab-I (Annexure I)	0	0	3	1.5
EXTRA CURRICULAR ACTIVITY					
	NCC/ NSS/PT & Games/ Creative Art				1
Total					28.5

Semester-IV

Code no.	Name of the subjects	L	T	P	C
THEORY					
PH 401	Mathematical Physics II	4	0	0	4
PH 402	Elements of Modern Physics	4	0	0	4
PH 403	Analog Systems & Applications	4	0	0	4
CH	Chemistry II	4	0	0	4
SESSIONAL / LABORATORY					
PH 404	Mathematical Physics II	0	0	4	2
PH 405	Elements of Modern Physics Lab	0	0	4	2
PH 406	Analog Systems & Applications Lab	0	0	4	2
CH	Chemistry II Lab	0	0	3	1.5
EXTRA CURRICULAR ACTIVITY					
	NCC/ NSS/PT & Games/ Creative Art				1
Total					24.5

Prasanta Kumar Saha
17/04/2018

Manoj Kumar

Nishu

Student
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S.K. Saha

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Semester-V

Code no.	Name of the subjects	L	T	P	C
THEORY					
PH 501	Quantum Mechanics and Applications	4	0	0	4
PH 502	Solid State Physics	4	0	0	4
PH 503	DSE-I (Annexure II)	3	0	0	3
PH 504	DSE-II (Annexure II)	3	0	0	3
SESSIONAL / LABORATORY					
PH 505	Quantum Mechanics Lab	0	0	4	2
PH 506	Solid State Physics Lab	0	0	4	2
PH 507	DSE-I Lab (Annexure II)	0	0	4	2
PH 508	DSE-II Lab (Annexure II)	0	0	4	2
Total					22

Semester-VI

Code no.	Name of the subjects	L	T	P	C
THEORY					
PH 601	Electromagnetic Theory	4	0	0	4
PH 602	Statistical Mechanics	4	0	0	4
PH 603	DSE-III(Annexure II)	3	0	0	3
PH 604	DSE-IV(Annexure II)	3	0	0	3
SESSIONAL / LABORATORY					
PH 605	Electromagnetic Theory Lab	0	0	4	2
PH 606	Statistical Mechanics Lab	0	0	4	2
PH 607	DSE-III Lab (Annexure II)	0	0	4	2
PH 608	DSE-IV Lab (Annexure II)	0	0	4	2
Total					22

Internship (In-house/External) of at least 2 months should be done by the students (Non-credit) during 5th/6th semester.

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Semester-VII

Code no.	Name of the subjects	L	T	P	C
THEORY					
PH 701	Mathematical Method in Physics	3	0	0	3
PH 702	Electrodynamics	3	0	0	3
PH 703	Classical Mechanics	3	0	0	3
PH 704	Quantum Mechanics	3	0	0	3
	Open Elective I (Annexure III)				
PH 705	Modern Computational Techniques & Programming	2	0	0	2
SESSIONAL / LABORATORY					
PH 706	Modern Computational Techniques & Programming Lab	0	0	4	2
PH 707	Modern Physics Lab	0	0	4	2
Total					21

Semester-VIII

Code no.	Name of the subjects	L	T	P	C
THEORY					
PH 801	Statistical Physics	4	0	0	4
PH 802	Atomic and Molecular Spectroscopy	4	0	0	4
PH 803	Electronics Devices & Circuits	3	0	0	3
PH 804	Condensed Matter Physics	3	0	0	3
	Open Elective II (Other Dept)	3	0	0	3
SESSIONAL / LABORATORY					
PH 805	Electronics Lab	0	0	4	2
PH 806	Condensed Matter Physics Lab	0	0	4	2
Total					21

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SCHEME FOR CHOICE BASED CREDIT SYSTEM IN IMSc (Physics) (1st -6th Sem)

SEM	CORE COURSE (14)	Ability Enhancement Compulsory Course (AECC)	Ability Enhancement Elective Course (AEEC) (Skill Based)	Elective: Discipline Specific DSE (4)	Elective: Generic (GE) (4)	NCC/ NSS/PT & Games/ Creative Art	Total
1 st	Mechanics (4+2)	Technical English (3)	English Language Lab (Non credit)		GE-II Mathematics I (5+1)	1	22
	Electricity & Magnetism (4+2)						
2 nd	Mathematical Physics-I (4+2)	Environmental Science (2)	Basics of Computer Science/Basics of Electrical Engineering/Basics of Electronics/ Basics of Mechanical Engg (3) Computer Science Lab/Electrical Engineering Lab/ Electronics Lab Basics of Mechanical Engg Lab(1.5)		GE-II Chemistry I (4+1.5)	1	25
	Waves and Optics (4+2)						
3 rd	Thermal Physics (4+2)		Object Oriented Programming(3)/ Basics of intelligent computing (3) Object Oriented Programming Lab/CAD Lab (1.5) (From other departments (3+1.5))		GE-III Mathematics II (5+1)	1	28.5
	Digital Systems & Applications (4+2)						
	Classical Dynamics (4+1)						
4 th	Mathematical Physics-II (4+2)				GE-IV Chemistry II (4+1.5)	1	24.5
	Elements of Modern Phys(4+2)						
	Analog Systems & Applications (4+2)						
5 th	Quantum Mechanics and Applications (4+2)			DSE-I (3+2)			22
	Solid State Physics (4+2)			DSE -II (3+2)			
6 th	Electromagnetic Theory (4+2)			DSE -III (3+2)			22
	Statistical Mechanics (4+2)			DSE -IV (3+2)			
Total	83	(2+3=5)	9	4×5=20	4×5.5=23	4	144

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SCHEME FOR CHOICE BASED CREDIT SYSTEM IN IMSc (Physics) (1st -6th Sem)

SEM	CORE COURSE (14)	Ability Enhancement Compulsory Course (AECC)	Ability Enhancement Elective Course (AECC) (Skill Based)	Elective: Discipline Specific DSE (4)	Elective: Generic (GE) (4)	NCC/ NSS/PT & Games/ Creative Art	Total
1 st	Mechanics (4+2)	Technical English (3)	English Language Lab (Non credit)		GE-II Mathematics I (5+1)	1	22
	Electricity & Magnetism (4+2)						
2 nd	Mathematical Physics-I (4+2)	Environmental Science (2)	Basics of Computer Science/Basics of Electrical Engineering/Basics of Electronics/ Basics of Mechanical Engg (3) Computer Science Lab/Electrical Engineering Lab/ Electronics Lab Basics of Mechanical Engg Lab(1.5)		GE-II Chemistry I (4+1.5)	1	25
	Waves and Optics (4+2)						
3 rd	Thermal Physics (4+2)		Object Oriented Programming(3)/ Basics of intelligent computing (3) Object Oriented Programming Lab/CAD Lab (1.5) (From other departments (3+1.5))		GE-III Mathematics II (5+1)	1	28.5
	Digital Systems & Applications (4+2)						
	Classical Dynamics (4+1)						
4 th	Mathematical Physics-II (4+2)				GE-IV Chemistry II (4+1.5)	1	24.5
	Elements of Modern Phys(4+2)						
	Analog Systems & Applications (4+2)						
5 th	Quantum Mechanics and Applications (4+2)			DSE-I (3+2)			22
	Solid State Physics (4+2)			DSE -II (3+2)			
6 th	Electromagnetic Theory (4+2)			DSE -III (3+2)			22
	Statistical Mechanics (4+2)			DSE -IV (3+2)			
Total	83	(2+3=5)	9	4×5=20	4×5.5=23	4	144

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Prasanna K Jait
17/04/2018

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Semester-IX

Code no.	Name of the subjects	L	T	P	C
THEORY					
PH	Nuclear and Particle Physics	4	0	0	4
PH	Advanced Quantum Mechanics	3	0	0	3
PH	Laser Physics and Applications	3	0	0	3
PH	DSE- V One paper from Either Group A or B or C or D or E: Specialization	4	0	0	4
PH	Project (Phase-I) from Either Group A or B or C or D or E				4
SESSIONAL / LABORATORY					
PH	Laser Physics Lab	0	0	4	2
Total					20

Semester-X

Code no.	Name of the subjects	L	T	P	C
THEORY					
PH	DSE- VI One paper from Either Group A or B or C or D or E: Specialization	4	0	0	4
PH	DSE- VII One paper from Either Group A or B or C or D or E: Specialization	4	0	0	4
PH	Project (Phase-II) from Either Group A or B or C or D or E				8
PH	Comprehensive viva				2
Total					18

Total credit for B Sc. (Physics Honors): 144

Total credit for M Sc.: 80

Total credit for IMSc.: 224

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Prasanna Kumar
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Semester-IX

Code no.	Name of the subjects	L	T	P	C
THEORY					
PH 901	Nuclear and Particle Physics	4	0	0	4
PH 902	Advanced Quantum Mechanics	3	0	0	3
PH 903	Laser Physics and Applications	3	0	0	3
PH 904	DSE- V One paper from Either Group A or B or C or D or E: Specialization	4	0	0	4
PH 905	Project (Phase-I) from Either Group A or B or C or D or E				4
SESSIONAL / LABORATORY					
PH 906	Laser Physics Lab	0	0	4	2
Total					20

Semester-X

Code no.	Name of the subjects	L	T	P	C
THEORY					
PH 1001	DSE- VI One paper from Either Group A or B or C or D or E: Specialization	4	0	0	4
PH 1002	DSE- VII One paper from Either Group A or B or C or D or E: Specialization	4	0	0	4
PH 1003	Project (Phase-II) from Either Group A or B or C or D or E				8
PH 1004	Comprehensive viva				2
Total					18

Total credit for B Sc. (Physics Honors): 144

Total credit for M Sc.: 80

Total credit for IMSc.: 224

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17/4/18

Department of Physics
Birla Institute of Technology
Mesra-835215, Ranchi

Minutes of the Board of Studies Meeting held on 28/09/2015

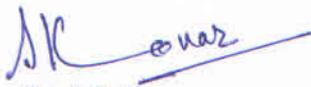
The Board of Studies (BOS) meeting of the department of physics has been held on 28/09/2015 to discuss and finalize the Course Structures and syllabi of 5-year Int.M.Sc in Physics and M.Sc in Physics. The members of the BOS have held detailed discussion on the Course Structures and syllabi of Int.M.Sc(Physics) and M.Sc (Physics) which have been recommended by the faculty members of the department of Physics. After detailed discussion, the BOS has recommended following course structures and syllabi, details of which are attached herein.

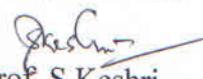
Following Board of Studies Members attended the meeting


H.O.D Physics
(Chairman)


28/9/15
Prof. A.K.Nirala
(External Member)
(Prof. & Head, Department of Applied Physics,
ISM, Dhanbad)


Prof. K.Ghorai
(Member)


Prof. S.Konar
(Member)


Prof. S.Keshri
(Member)


Dr.S.K.Sinha
(Member)


Dr.S.K.Rout
(Member)


Dr.Nishi Srivastava
(Member)

**5 Year Integrated M.Sc. in Physics &
M.Sc in Physics (2 year)
(September 2015)**

Proposed by

**Department of Physics
Birla Institute of Technology
Mesra, Ranchi – 835215, Jharkhand.**

**Course Structure and Syllabus for
Five-Year Integrated M. Sc. in Physics &
M. Sc. in Physics
IMSc Total Credits: 212
MSc Total Credits: 80**

Date: 28 September 2015

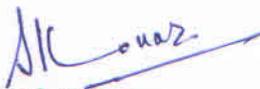
Course Structure for Five-Year Integrated M.Sc. in Physics

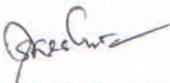
First Semester	Subject Code		L	T	P	Credit
	IMP 1001	Physics I (General Properties of Matter and Waves & Oscillations)	3	1	0	4
	IMC1001	Chemistry I	3	0	0	3
	IMM1001	Mathematics I (Analytical Geometry and Calculus)	3	1	0	4
BR	CS1302	Fundamentals of UNIX & C Programming	1	0	3	3
BR	HU1103	English	2	1	0	3
	IMP1002	Physics Laboratory I	0	0	3	2
	IMC1002	Chemistry Laboratory I	0	0	3	2
	GA1006	Co-curricular Activity	0	0	2	1
						22
Second Semester						
	IMP 2101	Physics II (Electricity and Magnetism)	3	0	0	3
	IMC2001	Chemistry II	3	1	0	4
	IMM2001	Mathematics II (Matrix Algebra & Complex Variables)	3	0	0	3
BR	CS2301	Fundamentals of Data Structures	3	1	0	4
BR	CH2203	Environmental Science	3	0	0	3
	IMP 2002	Physics Laboratory II	0	0	3	2
	IMC2002	Chemistry Laboratory II	0	0	3	2
	CS2302	Data structure Laboratory	0	0	3	2
	GA2006	Co-curricular Activity	0	0	2	1
						24
Third Semester						
	IMP 3001	Physics III (Modern Physics)	3	0	0	3
	IMC3001	Chemistry III	3	0	0	3
	IMM3001	Mathematics III (Ordinary Differential Equations with Special Functions)	3	1	0	4
BR	CS3101	Java Programming & Web Technology	3	0	0	3
BR	PS3001	Biological Science	3	0	0	3
	IMP 3002	Physics Laboratory III	0	0	3	2
	IMC3002	Chemistry Laboratory III	0	0	3	2
	CS3102	Java Programming Laboratory	0	0	3	2
	GA3006	Co-curricular Activity	0	0	2	1
						23


H.O.D Physics
(Chairman)


Prof. A.K. Nirala
(External Member)


Prof. K. Ghorai
(Member)


Prof. S. Konar
(Member)


Prof. S. Keshri
(Member)

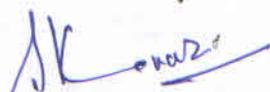

Dr. S.K. Sinha
(Member)


Dr. S.K. Rout
(Member)


Dr. Nishi Srivastava
(Member)

Fourth Semester		Course Structure for Five-Year Integrated M. Sc. Course in Physics: Contd.	L	T	P	Credit
	IMP 4001	Physics IV (Optics)	3	0	0	3
	IMC4001	Chemistry IV	3	0	0	3
	IMM4001	Mathematics IV (Integral Transform & Partial Differential Equations)	3	1	0	4
BR	MSH1151	Value Education, Human Rights and Legislative Procedure	3	0	0	3
	IMP 4103	Solid State Physics	3	0	0	3
	IMP 4002	Physics Laboratory IV	0	0	3	2
	IMC4002	Chemistry Laboratory IV	0	0	3	2
	GA4006	Co-curricular Activity	0	0	2	1
						21
Fifth Semester						
	IMP 5001	Fundamentals of Electronics	3	1	0	4
	IMP 5003	Heat & Thermodynamics	3	0	0	3
	IMP 5107	Introduction to Quantum Mechanics	3	1	0	4
	IMP 5009	Mathematical Physics	3	0	0	3
	IMP 5011	Classical Physics	3	0	0	3
BR	ME 5006	Computer Aided Design Laboratory	0	0	3	2
	IMP5002	Physics Laboratory V	0	0	3	2
						21

Sixth Semester			L	T	P	Credit
	IMP 6101	Materials Science and Nanotechnology	3	0	0	3
	IMP 6003	Digital Electronics	3	1	0	4
	IMP 6107	Introduction to Nuclear Physics	3	1	0	4
	IMP 6009	Introduction to Statistical Physics	3	0	0	3
BR	MSH1143	Foreign Language (French-I)	3	0	0	3
BR	MSH1145	Foreign Language (German-I)	3	0	0	3
	IMP 6002	Physics Laboratory VI - Materials Science Laboratory	0	0	3	2
	IMP 6004	Physics Laboratory VII – Electronics Laboratory	0	0	3	2
		Total:				21


H.O.D Physics
(Chairman)


Prof. A.K.Nirala
(External Member)

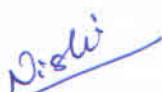

Prof. K.Ghorai
(Member)


Prof. S.Konar
(Member)


Prof. S.Keshri
(Member)


Dr. S.K.Sinha
(Member)


Dr. S.K.Rout
(Member)


Dr. Nishi Srivastava
(Member)

Seventh Semester		Course Structure for Two Year M. Sc. in Physics and Course Structure for Five-Year Integrated M. Sc. in Physics: Contd. (M.Sc in Physics and VII, VIII, IX & IX semesters of IMSc Physics are identical/common)	L	T	P	Credit
	SAP 1001	Mathematical Methods in Physics	3	0	0	3
	SAP 1003	Electrodynamics	3	0	0	3
	SAP 1005	Classical Mechanics and Relativity	3	0	0	3
	SAP 1107	Quantum Mechanics	3	0	0	3
	SAP 2007	Statistical Physics	3	0	0	3
BR	IMP 7002	Modern Computational Techniques & Programming	1	0	3	3
	SAP 1004	Physics Laboratory -I	0	0	3	2
	Total:					20
Eighth Semester						
	SAP 2001	Electronics Devices and Circuits	3	1	0	4
	SAP 2005	Atomic and Molecular Spectroscopy	3	0	0	3
	SAP 2009	Condensed Matter Physics	3	0	0	3
	SAP 2011	Advanced Quantum Mechanics	3	0	0	3
	SAP 2013	Laser Physics and Applications	3	0	0	3
	SAP 2002	Physics Laboratory II - Lasers and Advanced Optics Laboratory	0	0	3	2
	SAP 2004	Physics Laboratory III - Electronics and Instrumentation Laboratory	0	0	3	2
	Total:					20
Ninth Semester						
	SAP 3301	Nuclear and Particle Physics	3	0	0	3
	SAP3007	Advanced Electrodynamics	3	0	0	3
	SAP 3115	Advanced Experimental Techniques	3	0	0	3
	SAP 3002	Physics Laboratory IV - Advanced Materials Science Laboratory	0	0	3	2
	SAP 3104	Physics Laboratory V	0	0	3	2
	Breadth Paper	PG level of other Departments*	3	0	0	3
		One paper from Either Group A or B or C or D	3	1	0	4
Group A	SAP 3009	Plasma Physics	3	1	0	4
Group B	SAP 3011	Quantum Theory of Solids	3	1	0	4
Group C	SAP 3013	Microwave Electronics	3	1	0	4
Group D	SAP 3017	Fiber and Integrated Optics	3	1	0	4
	Total credits:					20


H.O.D Physics
(Chairman)


Prof. A.K.Nirala
(External Member)

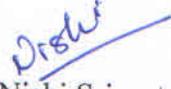

Prof. K.Ghorai
(Member)


Prof. S.Konar
(Member)

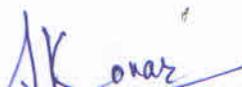

Prof. S.Keshri
(Member)


Dr. S.K.Sinha
(Member)


Dr. S.K.Rout
(Member)


Dr. Nishi Srivastava
(Member)

Tenth Semester		Three papers from any group (Papers shall be chosen from same group in IX and X Semesters)	L	T	P	Credit
		Group-A- Plasma Sciences				
	SAP 4001	Theory of Plasmas	3	1	0	4
	SAP 4003	Plasma Beams and Applications	3	1	0	4
	SAP 4005	Plasma Processing of Materials	3	1	0	4
	SAP 4007	Thin Film and Vacuum Technology	3	1	0	4
		Group-B- Condensed Matter Physics				
	SAP 4009	Physics of Solid State Devices	3	1	0	4
	SAP 4011	Advanced Materials Science	3	1	0	4
	SAP 4013	Nonconventional Energy Materials	3	1	0	4
	SAP 4015	Physics of Thin Films	3	1	0	4
		Group-C- Electronics				
	SAP 4009	Physics of Solid State Devices	3	1	0	4
	SAP 4019	Microprocessors and Microcontrollers	3	1	0	4
	SAP 4021	Instrumentation and Control	3	1	0	4
	SAP 4023	Integrated Electronics	3	1	0	4
	SAP 4017	Optical Communications	3	1	0	4
		Group-D- Photonics				
	SAP 4017	Optical Communications	3	1	0	4
	SAP 4027	Quantum & Nonlinear Optics	3	1	0	4
	SAP 4029	Introduction to Nanophotonics	3	1	0	4
	SAP 4033	Holography and Applications	3	1	0	4
	SAP 4031	Photonic and Optoelectronic Devices	3	1	0	4
	IMP-10001	Project / Dissertation				08
		Total				20
Total credits of IMSc						212
Total credits of MSc						80


H.O.D Physics
(Chairman)


Prof. A.K.Nirala
(External Member)

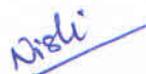

Prof. K.Ghorai
(Member)


Prof. S.Konar
(Member)


Prof. S.Keshri
(Member)


Dr. S.K.Sinha
(Member)


Dr. S.K.Rout
(Member)


Dr. Nishi Srivastava
(Member)



BIRLA INSTITUTE OF TECHNOLOGY

A Deemed University u/s 3 of UGC Act, 1956
MESRA : RANCHI – 835 215 (INDIA)

Phone : (EPBX) 0651-2275444/2275896, 2276002/2276006 FAX: 0651-2275401/2276052 Website: www.bitmesra.ac.in

To whom it may concern

It may be noted that the syllabus of IMSc (Physics) programme which was started in 2011 had gone through a thorough revision in 2015. Its contents were changed approximately by 25% and the new syllabus was implemented from July, 2015.

S. Keshri
7/6/19

(S. Keshri)
Prof. & Head, Dept. of Physics



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(S. Keshri) 7/6/15
Prof. & Head, Dept. of Physics



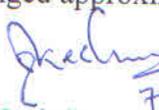
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To whom it may concern

It may be noted that the syllabus of MSc (Physics) programme had gone through a thorough revision on the basis of choice based credit system structure in 2018. Its contents were changed approximately by 10% and the new syllabus was implemented from July, 2018.


7/6/19

(S. Keshri)
Prof. & Head, Dept. of Physics



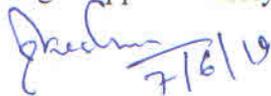
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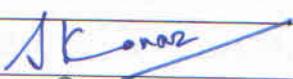
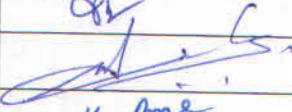
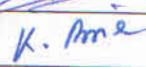
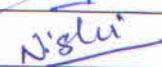

7/6/19

(S. Keshri)
Prof. & Head, Dept. of Physics

Department of Physics
Birla Institute of Technology
Mesra-835215, Ranchi

Minutes of the Faculty Meeting held on 15/09/2015

A departmental meeting has been held on 15/09/2015 to discuss and finalize the Course Structures and syllabi of Int.M.Sc in Physics and M.Sc in Physics. The faculty members of the department have held detailed discussion and recommended the course structures and syllabi, details of which are attached herein. Following Faculty Members attended the meeting

Sl.No	Name of Faculty	
	Dr. S. Konar	
	Dr. (Mrs.) S. Keshri.	
	Dr. S. K. Sinha	
	Dr.S.K.Rout	
	Dr. S. K. Mahapatra	
	Dr. (Mrs.) I. Banerjee	
	Mr Manish Kumar Sinha	
	Dr. Kingshuk Bose	 K. Amie
	Dr. (Mrs.) Ela Sinha	
	Dr. Rishi Sharma	Rishi (Not attended due to Lab class)
	Dr. Sahat Kumar. Mukherjee	
	Dr. Nishi Srivastava	 Nishi

**5 Year Integrated M.Sc. in Physics &
M.Sc in Physics (2 year)
(September 2015)**

Proposed by

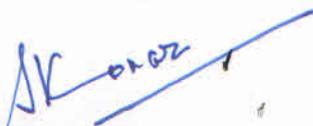
**Department of Physics
Birla Institute of Technology
Mesra, Ranchi – 835215, Jharkhand.**

**Course Structure and Syllabus for
Five-Year Integrated M. Sc. in Physics &
M. Sc. in Physics
IMSc Total Credits: 212
MSc Total Credits: 80**

Date: September 2015

Course Structure for Five-Year Integrated M.Sc. in Physics

First Semester	Subject Code		L	T	P	Credit
	IMP 1001	Physics I (General Properties of Matter and Waves & Oscillations)	3	1	0	4
	IMC1001	Chemistry I	3	0	0	3
	IMM1001	Mathematics I (Analytical Geometry and Calculus)	3	1	0	4
BR	CS1302	Fundamentals of UNIX & C Programming	1	0	3	3
BR	HU1103	English	2	1	0	3
	IMP1002	Physics Laboratory I	0	0	3	2
	IMC1002	Chemistry Laboratory I	0	0	3	2
	GA1006	Co-curricular Activity	0	0	2	1
						22
Second Semester						
	IMP 2101	Physics II (Electricity and Magnetism)	3	0	0	3
	IMC2001	Chemistry II	3	1	0	4
	IMM2001	Mathematics II (Matrix Algebra & Complex Variables)	3	0	0	3
BR	CS2301	Fundamentals of Data Structures	3	1	0	4
BR	CH2203	Environmental Science	3	0	0	3
	IMP 2002	Physics Laboratory II	0	0	3	2
	IMC2002	Chemistry Laboratory II	0	0	3	2
	CS2302	Data structure Laboratory	0	0	3	2
	GA2006	Co-curricular Activity	0	0	2	1
						24
Third Semester						
	IMP 3001	Physics III (Modern Physics)	3	0	0	3
	IMC3001	Chemistry III	3	0	0	3
	IMM3001	Mathematics III (Ordinary Differential Equations with Special Functions)	3	1	0	4
BR	CS3101	Java Programming & Web Technology	3	0	0	3
BR	PS3001	Biological Science	3	0	0	3
	IMP 3002	Physics Laboratory III	0	0	3	2
	IMC3002	Chemistry Laboratory III	0	0	3	2
	CS3102	Java Programming Laboratory	0	0	3	2
	GA3006	Co-curricular Activity	0	0	2	1
						23


Dr. S. Konar,


Dr. (Mrs.) S. Keshri,


Dr. S. K. Sinha,


Dr. S. K. Mahapatra,


Dr. (Mrs.) I. Banerjee,


Mr. Manish Kumar Sinha,


Dr. Kingshuk Bose

Dr. (Mrs.) Ela Sinha

Dr. Mrinal Mishra


Dr. Sanat Kumar. Mukherjee


(Nishi Srivastava)

Fourth Semester		Course Structure for Five-Year Integrated M. Sc. Course in Physics: Contd.	L	T	P	Credit
	IMP 4001	Physics IV (Optics)	3	0	0	3
	IMC4001	Chemistry IV	3	0	0	3
	IMM4001	Mathematics IV (Integral Transform & Partial Differential Equations)	3	1	0	4
BR	MSH1151	Value Education, Human Rights and Legislative Procedure	3	0	0	3
	IMP 4103	Solid State Physics	3	0	0	3
	IMP 4002	Physics Laboratory IV	0	0	3	2
	IMC4002	Chemistry Laboratory IV	0	0	3	2
	GA4006	Co-curricular Activity	0	0	2	1
						21
Fifth Semester						
	IMP 5001	Fundamentals of Electronics	3	1	0	4
	IMP 5003	Heat & Thermodynamics	3	0	0	3
	IMP 5107	Introduction to Quantum Mechanics	3	1	0	4
	IMP 5009	Mathematical Physics	3	0	0	3
	IMP 5011	Classical Physics	3	0	0	3
BR	ME 5006	Computer Aided Design Laboratory	0	0	3	2
	IMP5002	Physics Laboratory V	0	0	3	2
						21

Sixth Semester			L	T	P	Credit
	IMP 6101	Materials Science and Nanotechnology	3	0	0	3
	IMP 6003	Digital Electronics	3	1	0	4
	IMP 6107	Introduction to Nuclear Physics	3	1	0	4
	IMP 6009	Introduction to Statistical Physics	3	0	0	3
BR	MSH1143	Foreign Language (French-I)	3	0	0	3
BR	MSH1145	Foreign Language (German-I)	3	0	0	3
	IMP 6002	Physics Laboratory VI - Materials Science Laboratory	0	0	3	2
	IMP 6004	Physics Laboratory VII – Electronics Laboratory	0	0	3	2
						21

AK
Dr. S. Konar,

S. Keshri
Dr. (Mrs.) S. Keshri,

S. K. Sinha
Dr. S. K. Sinha,

Dr S.K.Rout

S. K. Mahapatra
Dr. S. K. Mahapatra,

I. Banerjee
Dr. (Mrs.) I. Banerjee,

Manish Kumar Sinha
Mr Manish Kumar Sinha ,

K. Bose
Dr. Kingshuk Bose

Dr. (Mrs.) Ela Sinha

Sanat Kumar Mukherjee
Dr. Sanat Kumar. Mukherjee

Rishi
Dr. Rishi Sharma

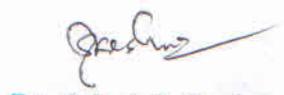
Nishi
Dr Nishi Srivastava

I did not attend the last meeting but I have full consent on course structure.

Rishi

Seventh Semester		Course Structure for Two Year M. Sc. in Physics and Course Structure for Five-Year Integrated M. Sc. in Physics: Contd. (M.Sc in Physics and VII, VIII, IX & IX semesters of IMSc Physics are identical/common)	L	T	P	Credit
	SAP 1001	Mathematical Methods in Physics	3	0	0	3
	SAP 1003	Electrodynamics	3	0	0	3
	SAP 1005	Classical Mechanics and Relativity	3	0	0	3
	SAP 1107	Quantum Mechanics	3	0	0	3
	SAP 2007	Statistical Physics	3	0	0	3
BR	IMP 7002	Modern Computational Techniques & Programming	1	0	3	3
	SAP 1004	Physics Laboratory -I	0	0	3	2
	Total:					20
Eighth Semester						
	SAP 2001	Electronics	3	1	0	4
	SAP 2005	Atomic and Molecular Spectroscopy	3	0	0	3
	SAP 2009	Condensed Matter Physics	3	0	0	3
	SAP 2011	Advanced Quantum Mechanics	3	0	0	3
	SAP 2013	Laser Physics and Applications	3	0	0	3
	SAP 2002	Physics Laboratory II - Lasers and Advanced Optics Laboratory	0	0	3	2
	SAP 2004	Physics Laboratory III - Electronics and Instrumentation Laboratory	0	0	3	2
	Total:					20
Ninth Semester						
	SAP 3301	Nuclear and Particle Physics	3	0	0	3
	SAP3007	Electromagnetic Theory	3	0	0	3
	SAP 3115	Advanced Experimental Techniques	3	0	0	3
	SAP 3002	Physics Laboratory IV - Advanced Materials Science Laboratory	0	0	3	2
	SAP 3104	Physics Laboratory V	0	0	3	2
	Breadth Paper	PG level of other Departments*	3	0	0	3
		One paper from Either Group A or B or C or D	3	1	0	4
Group A	SAP 3009	Plasma Physics	3	1	0	4
Group B	SAP 3011	Quantum Theory of Solids	3	1	0	4
Group C	SAP 3013	Microwave Electronics	3	1	0	4
Group D	SAP 3017	Fiber and Integrated Optics	3	1	0	4
	Total credits:					20

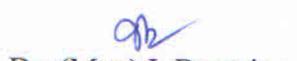

Dr. S. Konar,


Dr. (Mrs.) S. Keshri,


Dr. S. K. Sinha,

Dr S.K.Rout

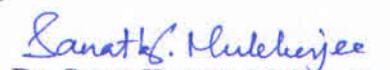

Dr. S. K. Mahapatra,


Dr. (Mrs.) I. Banerjee,


Mr Manish Kumar Sinha ,


Dr. Kingshuk Bose

Dr. (Mrs.) Ela Sinha


Dr. Sanat Kumar. Mukherjee


Dr. Rishi Sharma


Dr Nishi Srivastava

Tenth Semester		Three papers from any group (Papers shall be chosen from same group in IX and X Semesters)	L	T	P	Credit
		Group-A- Plasma Sciences				
	SAP 4001	Theory of Plasmas	3	1	0	4
	SAP 4003	Plasma Beams and Applications	3	1	0	4
	SAP 4005	Plasma Processing of Materials	3	1	0	4
	SAP 4007	Thin Film and Vacuum Technology	3	1	0	4
		Group-B- Condensed Matter Physics				
	SAP 4009	Physics of Solid State Devices	3	1	0	4
	SAP 4011	Advanced Materials Science	3	1	0	4
	SAP 4013	Nonconventional Energy	3	1	0	4
	SAP 4015	Physics of Thin Films	3	1	0	4
		Group-C- Electronics				
	SAP 4017	Microwave Electronics	3	1	0	4
	SAP 4019	Microprocessors and Microcontrollers	3	1	0	4
	SAP 4021	Instrumentation and Control	3	1	0	4
	SAP 4023	Integrated Electronics	3	1	0	4
	SAP 4025	Group-D- Photonics				
	SAP 4027	Quantum & Nonlinear Optics	3	1	0	4
	SAP 4029	Introduction to Nanophotonics	3	1	0	4
	SAP 4031	Fibre Optics and Integrated Optics	3	1	0	4
	IMP-10001	Project / Dissertation				08
		Total				20
Total credits of IMSc						212
Total credits of MSc						80

AK Konar

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S. Keshri

Dr. (Mrs.) S. Keshri,

S. K. Sinha

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Rishi



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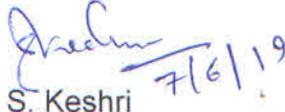
**Sub: Certification of usage of ICT facilities by all faculty members of the
Department of Physics**

Dear Sir/Madam,

This is to certify that all the faculty members of the Department of Physics, BIT Mesra, make use of ICT for effective teaching with Learning Management Systems (LMS), e-learning resources etc.

Thanking you,

Yours Sincerely,


Prof. S. Keshri
(HOD, Dept. of Physics)

Metric 2.3.3

Department/Section: Academic Department

Ratio of students to mentor for academic and stress related issues (current year data)

Year	Roll No.	Name of the Student	Name of the Mentor
2018	IPH/10041/18	ANCHAL KUMARI	Dr. D. K. Singh
2018	IPH/10042/18	BISHAL KUMAR	Dr. D. K. Singh
2018	IPH/10043/18	DEVYANI SINGH	Dr. D. K. Singh
2018	IPH/10044/18	NAVNEET ANAND	Dr. D. K. Singh
2018	IPH/10021/18	ARUNAAVA GHOSH	Dr. K. Bose
2018	IPH/10022/18	DISHA BHATTACHARJEE	Dr. K. Bose
2018	IPH/10023/18	A GURUDEV KESAVAN	Dr. K. Bose
2018	IPH/10024/18	PRIYANSHI SRIVASTAVA	Dr. K. Bose
2018	IPH/10048/18	MADHULIKA ROY	Dr. K. Bose
2018	IPH/10001/18	RAHUL YADAV	Dr. S. Konar
2018	IPH/10002/18	SWARNAVA MITRA	Dr. S. Konar
2018	IPH/10003/18	PALLAV ROY	Dr. S. Konar
2018	IPH/10004/18	DEVOTOSH GANGULY	Dr. S. Konar
2018	IPH/10021/18	ARUNAAVA GHOSH	Dr. K. Bose
2018	IPH/10022/18	DISHA BHATTACHARJEE	Dr. K. Bose
2018	IPH/10023/18	A GURUDEV KESAVAN	Dr. K. Bose

2018	IPH/10024/18	PRIYANSHI SRIVASTAVA	Dr. K. Bose
2018	IPH/10048/18	MADHULIKA ROY	Dr. K. Bose
2018	IPH/10033/18	ABHAY SURYA	Dr. Madhu Priya
2018	IPH/10034/18	ADITYA MISHRA	Dr. Madhu Priya
2018	IPH/10035/18	NAJ KASHYAP	Dr. Madhu Priya
2018	IPH/10036/18	NEHA KUMARI	Dr. Madhu Priya
2018	IPH/10025/18	TANVI GAURAV	Dr. Rishi Sharma
2018	IPH/10026/18	NIKHIL ANAND	Dr. Rishi Sharma
2018	IPH/10027/18	SACHINDRA KUMAR	Dr. Rishi Sharma
2018	IPH/10028/18	ANNWESHA ADHIKARI	Dr. Rishi Sharma
2018	IPH/10013/18	ANURAG BHATTACHARJEE	Dr. R. K. Paul
2018	IPH/10014/18	ABHISHEK DUTTA	Dr. R. K. Paul
2018	IPH/10015/18	GAADHA LEKSHMI S	Dr. R. K. Paul
2018	IPH/10016/18	PREETHAM M S	Dr. R. K. Paul
2018	IPH/10005/18	DOIPAYAN BHATTACHARJEE	Dr. S. Keshri
2018	IPH/10006/18	ARGHYA GHOSH	Dr. S. Keshri
2018	IPH/10007/18	KUMAR SHIVAM	Dr. S. Keshri
2018	IPH/10008/18	DHRUV SOOD	Dr. S. Keshri
2018	IPH/10045/18	DEBATRI ASH	Dr. S. Keshri
2018	IPH/10037/18	RAJARSHI KUNDU	Dr. Sourabh Lahiri
2018	IPH/10038/18	ROHIT	Dr. Sourabh

		KUMAR SINGH	Lahiri
2018	IPH/10039/18	ASMITA JHA	Dr. Sourabh Lahiri
2018	IPH/10040/18	AKANKSHA RAJ	Dr. Sourabh Lahiri
2018	IPH/10029/18	ANTARIKSHA MITRA	Dr. S. K. Mukherjee
2018	IPH/10030/18	RAHUL GORAIN	Dr. S. K. Mukherjee
2018	IPH/10031/18	PRANJAL PANDEY	Dr. S. K. Mukherjee
2018	IPH/10032/18	ANKUR JYOTI RAJBONGSHI	Dr. S. K. Mukherjee
2018	IPH/10046/18	AASHISH RANJAN	Dr. S. K. Mukherjee
2018	IPH/10017/18	SHREYAS RC	Dr. S. K. Rout
2018	IPH/10018/18	RIDDHIMA SADHU	Dr. S. K. Rout
2018	IPH/10019/18	RITHWIK R	Dr. S. K. Rout
2018	IPH/10020/18	NARGIS	Dr. S. K. Rout
2018	IPH/10047/18	AKANKSHA PRIYA	Dr. S. K. Rout
2018	IPH/10009/18	PRANJALI BHATTACHARJEE	Dr. S. K. Sinha
2018	IPH/10010/18	SONALI MALLICK	Dr. S. K. Sinha
2018	IPH/10011/18	ANAMIKA	Dr. S. K. Sinha
2018	IPH/10012/18	RUPAM GHOSAL	Dr. S. K. Sinha
2017	IPH/10031/17	KUMAR AYUSH	Dr. K. Bose
2017	IPH/10032/17	SUMIT YADAV	Dr. K. Bose
2017	IPH/10033/17	SHIVAM PARASAR	Dr. K. Bose
2017	IPH/10034/17	ADITYA NARAYAN SINGH	Dr. K. Bose

2017	IPH/10035/17	SNEHA SINGH	Dr. K. Bose
2017	IPH/10007/17	SANJEEVAN SINGHA ROY	Dr. S. Keshri
2017	IPH/10008/17	AHANA MUKHOPADH YAY	Dr. S. Keshri
2017	IPH/10010/17	GEORGE A JOHNY	Dr. S. Keshri
2017	IPH/10011/17	ADITYA RANJAN	Dr. S. Keshri
2017	IPH/10012/17	ARJIT	Dr. S. Keshri
2017	IPH/10047/17	ABHISHEK KUMAR	Dr. Madhu Priya
2017	IPH/10049/17	KSHITIZ ANAND	Dr. Madhu Priya
2017	IPH/10050/17	ADITYA GOURAV	Dr. Madhu Priya
2017	IPH/10052/17	BHARTENDU THAKUR	Dr. Madhu Priya
2017	IPH/10053/17	RITU RAJ	Dr. Madhu Priya
2017	IPH/10036/17	NILESH KUMAR	Dr. Rishi Sharma
2017	IPH/10037/17	PRABHAT KUMAR JHA	Dr. Rishi Sharma
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Shuchi
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Head of Department

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1	Physics	1	IPH/10001/18	RAHUL YADAV	2179	Dr. S. Konar
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158		7	IPH/10031/15	SANJAY KUMAR	10794	Dr. D. K. Singh
159		9	IPH/10002/14	SNEHA SREE GUHA	2179	Dr. S. Konar
160		9	IPH/10003/14	SREYA BANERJEE	6009	Dr. S. Keshri
161		9	IPH/10004/14	UMANG DHAWAN	2188	Dr. S. K. Sinha
162		9	IPH/10005/14	KOUSTAV KAR	2294	Dr. R. K. Paul
163		9	IPH/10007/14	MOUPARNA MANNA	8969	Dr. S. K. Rout
164		9	IPH/10008/14	JAYA DIVYAM	2367	Dr. K. Bose
165		9	IPH/10009/14	DIKSHA KUMARI	9302	Dr. Rishi Sharma
166		9	IPH/10011/14	AYUUSHI DUTTA	9775	Dr. S. K. Mukherjee
167		9	IPH/10013/14	KUNDAN KUMAR MISHRA	10791	Dr. Madhu Priya
168		9	IPH/10014/14	PRATISH TIWARI	10791	Dr. Madhu Priya
169		9	IPH/10017/14	BIVOO KUMAR	10791	Dr. Madhu Priya
170		9	IPH/10019/14	SHUBHANKAR BOSE	10793	Dr. Sourabh Lahiri
171		9	IPH/10020/14	SAMEER KUMAR TIWARI	10793	Dr. Sourabh Lahiri
172		9	IPH/10021/14	DEEPSHIKHA SINGH	10793	Dr. Sourabh Lahiri
173		9	IPH/10022/14	SMIT ANAND	10794	Dr. D. K. Singh
174		9	IPH/10024/14	AKRITI RAJ	10794	Dr. D. K. Singh

2014	IPH/10008/14	JAYA DIVYAM	Dr. K. Bose
2014	IPH/10024/14	AKRITI RAJ	Dr. K. Bose
2014	IPH/10014/14	PRATISH TIWARI	Dr. Madhu Priya
2014	IPH/10016/13	BINAY KUMAR MAHANTA	Dr. Madhu Priya
2014	IPH/10017/14	BIVOO KUMAR	Dr. Madhu Priya
2013	IPH/10013/13	SAURABH RANJAN	Dr. Rishi Sharma
2014	IPH/10013/14	KUNDAN KUMAR MISHRA	Dr. Rishi Sharma
2014	IPH/10019/14	SHUBHANKA R BOSE	Dr. Rishi Sharma
2014	IPH/10020/14	SAMEER KUMAR TIWARI	Dr. Rishi Sharma
2014	IPH/10005/14	KOUSTAV KAR	Dr. R. K. Paul
2014	IPH/10009/14	DIKSHA KUMARI	Dr. S. K. Mukherjee
2013	IPH/10011/13	SHIRSH RAJ	Dr. S. K. Mukherjee
2014	IPH/10018/14	GAURAV MUKHERJEE	Dr. S. K. Mukherjee
2014	IPH/10007/14	MOUPARNA MANNA	Dr. S. K. Rout
2014	IPH/10004/14	UMANG DHAWAN	Dr. S. K. Sinha
2014	IPH/10003/14	SREYA BANERJEE	Dr. S. Keshri
2014	IPH/10002/14	SNEHA SREE GUHA	Dr. S. Konar
2014	IPH/10011/14	AYUUSHI DUTTA	Dr. Sourabh Lahiri

Shuchi
22/11/19

Head of Department