

Village: Khiala: PO: Padhiana, Distt: Jalandhar 144030 Website: www.sbbsuniversity.ac.in Phone: 0181-2711163 Fax: 0181-2711555

Ref. No: 5BBSU/UIS/PS/2025/434(C)

Date: 20. 5. 25

Department of Physical Sciences

Meeting Circular

It is my pleasure to inform you that you have been appointed as a member of Board of Studies (BOS) for the discipline of Physics for the approval of scheme & syllabus of BSc./BSc. (Hons.)/BSc.(Hons.) with research in Physics Batch 2025 and Physics courses syllabus in BSc. Physical Sciences/Discipline Specific (3/4 year) batch 2024 offered by Department of Physical Sciences on 28th May 2025 through online mode.

List of the BOS members:

S.N o.	Name	Subject	Designation	Institute	Position	Signature
1	Dr. Vijay Dhir	CSE	Dean Academics	SBBSU	Chairperson	127
2	Dr. Shweta Singh	Microbiology	Dean UIS	UIS	Member	NO
3	Dr. Nareshpal Singh Saini	Physics	(Retd.) Professor	Department of Physics, Guru Nanak Dev University, Amritsar, India Email: nssaini.phy@gndu.ac.in ; Mobile: +91-9417384692,	External subject Expert (Physics)	Present online
•	Dr. Nisha Sharma	Chemistry	Head, Physical Sciences, Professor (Chemistry)	Office: +91-183-2258802 UIS	Internal Member	Muhesh
5	Dr. Honey Sharma	Physics	Coordinator Physical Sciences, Associate Professor (Physics)	UIS	Internal Member	Hand
	Dr. Satnam Singh	Physics	Assistant Professor	UIS	Internal	lat out
	Dr. Rampal	Physics	Assistant Professor	UIS	Member Internal	Lot
	Ms. Arwinder Kaur		Assistant Professor	UIS	Member Internal	Vous
	Dr Jagdeep Kaur (Dea	an UIET) / Her rep	resentative		Member Member	LONG TO

10	Dr Aneet Kumar (Dean UIE) /His representative		
		Member	1
11	Dr. Pooja Bali (Dy Dean UIL)/ Her representative	Member	2 4 0
12	Dr. Ajay Pathania (Dy Dean UICM)/ His representative	Member	and Ball
13	Dr. Nirnal Kaur (Dy Dean UICAIS)/Her representative	Member	Do
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You are requested to attend the BOS meeting on 28th May 2025 at 11:00 am onwards through online mode. All are requested to join online as per the link details provided through mail.

The detailed agenda of the meeting will be as follow

- Discussed and approved one year (3rd & 4th semester) scheme, course code, credits & syllabus of physics for B.Sc. Physical Sciences/Discipline Specific (3/ 4 year) (UG045) and B.Sc./B.Sc.(Hons.)/B.Sc.(Hons.) with research in Physics as per New Education Policy 2020 for the admissions of session 2025-2026 onwards.
- Discussed and approved major courses of physics for 3rd & 4th semester offered in B.Sc. Physical Sciences/Discipline Specific (3/4 year UG programme), 1st and 2nd semester in B.Sc./B.Sc. (Hons.)/ B.Sc. (Hons.) with research in Physics as per New Education Policy 2020 for the admissions of session 2025-2026 onwards.
- 3. Amendments in the course curriculum on the basis of suggestions by the experts regarding scheme and syllabus

Dr Honey Sharma

CoD (Physical Sciences)

Dr Nisha Sharma

HOD (Physical Sciences)

Dr. Shweta Singh

Dean (UIS)



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Department of Physical Sciences

Ref. No. SBBSU UIS PS 2025 436(C)

Date: .30 5.25

Proceedings of Meeting of Board of Studies (BoS) of Department of Physical Sciences

The meeting of Board of Studies (BOS) meetings for the approval of scheme & syllabus of B.Sc/B.Sc. (Hons.)/BSc.(Hons.) with research in Physics (as per NEP 2020) for batch 2025 onwards and Physics syllabus for BSc. Physical Sciences/Discipline Specific (3/4 year), batch 2024 offered by Department of Physical Sciences was held on 28th May 2025 from 11:00 AM onwards through online mode (Google Meet).

a the BOS agenda:

F	ollowing members we	ere present in th	e meeting and appro	ved the BOS agenda:	Position	Signature
S.N		Subject	Designation	Institute	Toshion	
0.				apport.	Chairperson	279
FI	Dr Vijay Dhir	CSE	Dean Academics	SBBSÚ		
2	Dr Shweta Singh	Microbiology	Dean UIS	UIS	Member	50/
3	Dr. Nareshpal Singh Saini	Physics	(Retd.) Professor	Department of Physics, Guru Nanak Dev University, Amritsar, India	External subject Expert (Physics)	Present online
				Email: nssaini@yahoo.co m, nssaini.phy@gndu.ac.i n: Mobile: +91- 9417384692, Office: +91- 183-2258802		
4	Dr. Nisha Sharma	Chemistry	Head, Physical Sciences, Professor (Chemistry)	uis	Internal Member	Nuhosh
5	Dr. Honey Sharma	Physics	Coordinator Physical Sciences, Associate Professor	UIS	Internal Member	Hard
_	Dr. Satnam Singh	Physics	(Physics) Assistant Professor	UIS	Internal Member	feboar
6		Physics	Assistant Professor	UIS	Internal Member	Roll
7	Dr. Rampal	·	Assistant Professor	UIS	Internal Member	on
8	Ms. Arwinder Kaur	Physics			Member	Don.
9	Dr. Jagdeep Kaur (Dea	an UIET) / Her repre	esentative			14. 1
10	Dr. Aneet Kumar (Dea	n UIE) /His represe	ntative		Member	
11	Dr. Pooja Bali (Dean				Member	luoja
	Dr. Ajay Pathania (Dy				Member	Jan
12	Dr. Ajay Pathania (Dy Dr Nirnal Kaur (Dy De				Member	dm/



Village: Khiala: PO: Padhiana, Distt: Jalandhar 144030 Website: www.sbbsuniversity.ac.in Phone: 0181-2711163 Fax: 0181-2711555 Following agenda items were discussed and approved as follow:

- 1. Discussed and approved one year (3rd & 4th semester) scheme, course code, credits & syllabus of physics for B.Sc. Physical Sciences/Discipline Specific (3/ 4 year) (UG045) and B.Sc./B.Sc.(Hons.)/ B.Sc.(Hons.) with research in Physics as per New Education Policy 2020 for the admissions of session 2025-2026 onwards.
- 2. Discussed and approved major courses of physics for 3rd & 4th semester offered in B.Sc. Physical Sciences/Discipline Specific (3/4 year UG programme), 1st and 2nd semester in B.Sc./B.Sc. (Hons.)/ B.Sc. (Hons.) with research in Physics as per New Education Policy 2020 for the admissions of session 2025-2026 onwards.
- 3. Amendments in the course curriculum on the basis of suggestions by the experts regarding scheme and syllabus.
- Details of Proceedings of BoS Meeting & Changes approved as per the agenda are as follows:-Approved one year (3rd & 4th semester) scheme, course code, credits & syllabus of physics for B.Sc. Physical Sciences/Discipline Specific (3/4 year) (UG045) and B.Sc./B.Sc.(Hons.)/ B.Sc.(Hons.) with research in Physics as per New Education Policy 2020 for the admissions of session 2025-2026 onwards.

New Courses introduced & approved as per the agenda were as follows:

New Courses of Physics introduced in one year (3rd & 4th semester) for B.Sc. Physical Sciences/Discipline Specific (3/4 year) G045) and B.Sc./B.Sc.(Hons.)/ B.Sc.(Hons.) with research in Physics as per New Education Policy 2020 for the admissions of ssion 2025-2026 onwards

0.	Programme Name /Code	Course Code	Course/ Subject Name	Remarks / Observations by Experts/Stakeholders/BoS members)	Action Taken
1.	B Sc Physical Sciences/Discipline Specific (3/ 4 year UG programme) (UG045)	PHY261	Statistical & Thermodynamics	New major courses of Statistical & Thermodynamics is introduced in 3 rd semester of B Sc Physical Sciences/Discipline Specific (3/4 year UG programme) (UG045) as per NEP 2020	Incorporated in the curriculum. Implemented w.e.f Academic session 2025- 2026
2.	B Sc Physical Sciences/Discipline Specific (3/ 4 year UG programme) (UG045)	PHY273	Indian Knowledge System-II	New major courses of IKS-II having the content related to physics is introduced in 3 rd semester of B.Sc. Physical Sciences/Discipline Specific (3/4 year UG programme) (UG045) as per NEP 2020	
3.	B Sc Physical Sciences/Discipline Specific (3/ 4 year UG programme) (UG045)	РНУ271	Analytical Method-2	New minor courses of Analytical Method-2 related to physics is introduced in 3 rd semester of B Sc Physical Sciences/Discipline Specific (3/4 year UG programme) (3 rd semester) (UG045) as per NEP 2020	
4.	B Sc Physical Sciences/Discipline Specific (3/ 4 year UG programme) (UG045)	PHY263	Statistical & Thermodynamics (Practical)	New major courses of Statistical & Thermodynamics (Practical) is introduced in 3 rd semester of B Sc Physical Sciences/Discipline Specific (3/4 year UG programme) (3 rd semester	



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1						(UG045) as per NEP 2020	
	5.	Scient Spec UG	Physical nces/Discipline cific (3/ 4 year programme) 6045)	PHY262	Wave & Optics	New major courses of Wave & Optics is introduced in 4 th semester of B Sc Physical Sciences/Discipline Specific (3/4 year UG programme) (4 th semester) (UG045) as per NEP 2020	
	6.	Scie Spe UG	c Physical ences/Discipline ecific (3/ 4 year 6 programme) G045)	PHY264	Wave & Optics (Practical)	New major courses of Wave & Optics (Practical) is introduced in 4 th semester of B Sc Physical Sciences/Discipline Specific (3/ 4 year UG programme) (UG045) as per NEP 2020	
	7.	Sc Sp U	Sc Physical ciences/Discipline pecific (3/ 4 year G programme) UG045)	PHY266	Analytical Method	New minor courses of Analytical Method related to physics is introduced in 4th semester of B Sc Physical Sciences/Discipline Specific (3/4 year UG programme) (UG045) as per NEP 2020	
	8.	B	B.Sc./B.Sc.(Hons.)/ B.Sc.(Hons.) with research in Physics	PHY 161	Indian Knowledge System in Physical Sciences	New major courses of Indian Knowledge System in Physical Sciences is introduced in 1 st sem of B.Sc./B.Sc.(Hons.)/ B.Sc.(Hons.) with research in Physics	
	9.		B.Sc./B.Sc.(Hons.) B.Sc.(Hons.) with research in Physics		Mechanics	New major courses of Mechanics is introduced in 1 st sem of B.Sc./B.Sc.(Hons.)/ B.Sc.(Hons.) with research in Physics	Incorporated in the curriculum. Implemented w.e.f Academic session 2025-
	1		B.Sc./B.Sc.(Hons.) B.Sc.(Hons.) with research in Physics		Indian Knowledge System in Physical Sciences (Practical)	(Practical), introduced in 1 st sem of B.Sc./B.Sc.(Hons.)/ B.Sc.(Hons.) with research in Physics	2026
		11.	B.Sc./B.Sc.(Hons. B.Sc.(Hons.) with research in Physic	i l	Electricity & Magnetism	New major courses of Electricity & Magnetism, introduced in 2 nd sem of B.Sc./B.Sc.(Hons.)/ B.Sc.(Hons.) with research in Physics	
		12	B.Sc./B.Sc.(Hons B.Sc.(Hons.) with research in Physi	n	4 Electricity & Magnetism (Practical)	New major courses of Electricity & Magnetism (Practical), introduced in 2 nd sem of B.Sc./B.Sc.(Hons.)/ B.Sc.(Hons.) with research in Physics	





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3. Other Suggestions of External Experts (Not covered above):

S. No.	Name of Expert	Designation/Address	Expert's suggestions	Action Taken
1	Dr. Nareshpal Singh Saini	(Retd.) Professor, Department of Physics, Guru Nanak Dev University, Amritsar, India Email: nssaini.phy@gndu.ac.in ; Mobile: +91-9417384692, Office: +91-183-2258802	 Expert has appreciated the efforts of faculty and institute for well designing of syllabus of undergraduate programme as per NEP2020. Minor change in Statistical & Thermodynamics in 3rd semester and Wave & Optics in 4th semester. Minor change in Mechanics in 1st semester. 	Duly acknowledged. As per new Education policy 2020

As suggested by the experts, all amendments have been incorporated in scheme and syllabus.

Meeting ended with the thanks by Dean Academics.

Dr Honey Sharma (Associate Professor Physics)

Dr Satnam Singh (Assistant Professor Physics Physics)

Dr Honey Sharma (Associate Professor Physics) Coordinator, Physical Sciences

Dr Rampal (Assistant Professor Physics)

Ms. Arwinder Kaul Assistant Professor

Dr Nisha Sharma (Professor Chemistry)

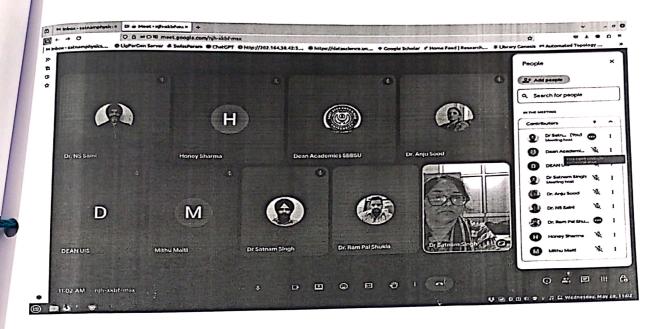
HOD, Physical Sciences

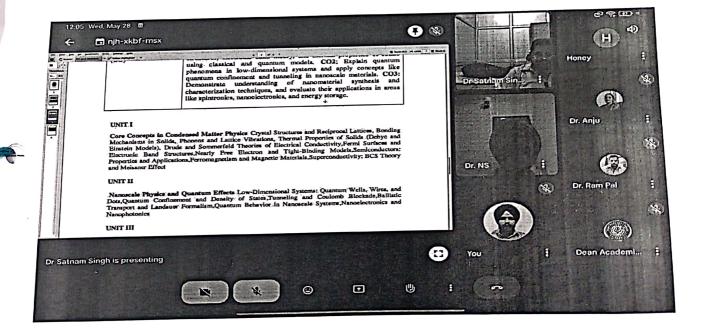




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External Expert Review Performa For Board of Studies

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Name of External Expert	DR NARESHPAL SINGH SAINS
Discipline	PHY-SICS
Designation	· PROFESSOR (RTD)
Organization (Name & Address)	Road Brefors, Amilton-14308
	Road Brefiss, Amelitary-14308
Contact No.	94173 84 682
E-Mail 1D	N. S. SAINI @ YAHOO, COM
Date of Visit/Meeting	28/05/2025
Reviewer's Comments :-	The state of the s
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SANT BABA BHAG SINGH UNIVERSITY

Vill. Khiala, P.O. Padhiana, Distt. Jalandhar - 144 030 (PB.) Recognized by UGC under Section 2(f) of UGC Act, 1956.

Rel. No SBBSU/DA) 25/116

Dated 24-5-2035

To

Dr. Nareshpal Singh Saini (Retd.) Professor, Department of Physics, Guru Nanak Dev University, Amritsar, India

Subject: Invitation for Board of Studies meeting in the Department of Physical Sciences
Respected Sir,

This is to bring to your kind notice that the meeting of Board of Studies (BOS) of Department of Physical Sciences, University Institute of Sciences, Sant Baba Bhag Singh University, Khiala, Jalandhar is going to be held on May 28th 2025 at 11:00 AM through online mode. You have been nominated as an expert for the BoS meeting by the competent authority. I feel honor to invite you as an expert for the approval of Course Scheme and Syllabus of Physics in B.Sc. Physical Sciences Batch 2024, B.Sc. /B.Sc. (Hons.)/B.Sc. (Hons.) with Research in Physics Batch 2025, M.Sc. (Hons.) Physics as per NEP 2020, Ph.D Physics coursework and interdisciplinary courses of Physics offered by Department of Physical Sciences. Your experience and expertise will be of great help to the Department and University. You are requested to kindly spare your valuable time to participate in the same on May 28th 2025 at 11:00 AM.

Regards

Dr. Vijey Dhir Dean Academics SBBS University



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Department of Physical Sciences

Ref. No: SBBSU/UIS/PS/2025/ 429

Date: 13/5/05

The Vice Chancellor

SBBS University,

Jalandhar

Subject: For the approval of the expert for BOS of Physical Sciences (Physics)

Respected Sir,

It is submitted that Department of Physical Sciences have to conduct BOS for the discipline of Physics for (B.Sc. Physical Sciences Batch 2024, BSc./ BSc. (Hons.) B.Sc.(Hons.with Research) in Physics 2025 onwards, M.Sc (Hons.) Physics and Ph.D Physics) and interdisciplinary courses of Physics offered by Physical Sciences as per NEP 2020 on 21 May 2025. Kindly approve the subject Expert from the following panel.

Physics								
S No.	Name	Designation	University/Institute					
1	Dr. Nareshpal Singh Saini	(Retd.) Professor	Department of Physics, Guru Nanak Dev University, Amritsar. India					
			Email: nssaini@yahoo.com, nssaini.phy@gndu.ac.in					
			Mobile: +91-9417384692, Office: +91-183-2258802					
2	Dr. H.M Mittal	Professor	Department of Physics, Dr B.R Ambedkar National Institute of Technology, Jalandhar, Punjab-144011,					
			Email ID: mittalhm@nitj.ac.in; Mobile: 9417119665					
3	Dr. Smriti Khosla	Associate Professor	Department of Physics, DAV University, Jalandhar, Email: samritis@yahoo.com, PH: 9815670705					

Kindly approve Honorium (Rs 2000/-) for the expert as well.

Thanking you in anticipation

Head (Physical Sciences)



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Ref. No: 5.BBSN UIS PC 2025/434(a)

Date: 2.0.5. 45

Department of Physical Sciences

Meeting Circular

It is my pleasure to inform you that you have been appointed as a member of Board of Studies (BOS) for the discipline of Physics for the approval of scheme & syllabus of MSc. (Hons.) Physics 2year programme (as per NEP 2020) offered by Department of Physical Sciences for batch 2025 onwards on 28th May 2025 through online mode.

List of the BOS members:

S.N o.	Name	Subject	Designation	Institute	Position	Signature
1	Dr. Vijay Dhir	CSE	Dean Academics	SBBSU	Chairperson	· M
2	Dr. Shweta Singh	Microbiology	Dean UIS	UIS	Member	11000
3	Dr. Nareshpal Singh Saini	Physics	(Retd.) Professor	Department of Physics, Guru Nanak Dev University, Amritsar, India Email: nssaini.phy@gndu.ac.in ; Mobile: +91-9417384692, Office: +91-183-2258802	External subject Expert (Physics)	Present online
	Dr. Nisha Sharma Dr. Honey Sharma	Chemistry Physics	Head, Physical Sciences, Professor (Chemistry) Coordinator Physical Sciences, Associate Professor	UIS	Internal Member Internal Member	Mahal Illand
	r. Satnam Singh		(Physics) Assistant Professor	UIS	Internal	1-toan
	r. Rampal s. Arwinder Kaur		Assistant Professor	UIS	Member Internal Member	2 pd
Dr	Jagdeep Kaur (Dea	n UIET) / Her rep		UIS	Internal Member Member	1207
	(Deal	- OIE)/HIS repres	entative		Member	D

[11	Dr. Pooja Bali (Dean UIL)/ Her representative	Member	roja Ball
	12	Dr. Ajay Pathania (Dy Dean UICM)/ His representative	Member	er
	13	Dr. Nimal Kaur (Dy Dean UICAIS)/Her representative	Member	de la

You are requested to attend the BOS meeting on 28th May 2025 at 11:00 am onwards through online mode. All are requested to join online as per the link details provided through mail.

The detailed agenda of the meeting will be as follow

- 1. Discussed and approved the scheme, credit and syllabus of MSc.(Hons.) Physics 2year (PG048) as per NEP 2020 for the admissions of session 2025-26 onwards.
- Approved the incorporation of vision, mission, programme educational outcomes, programme outcome, programme specific outcomes & course outcomes in scheme and syllabus of MSc.(Hons.) Physics 2year (PG048) as per NEP 2020).
- 3. Discussed and approved the syllabus of major and discipline specific elective courses of MSc.(Hons.) Physics 2year (PG048) as per NEP 2020).
- 4. Discussed & approved various curriculum aspects on the basis of Feedback of stakeholders (Students/Alumni/Teachers/Employers) i.e. Incorporation of more elective/core courses on the basis of specialization oriented, technological advancements, practicability employable skills.

5. Amendments in the course curriculum on the basis of suggestions by the experts regarding scheme and syllabus.

Dr Honey Sharma

CoD (Physical Sciences)

Dr Nisha Sharma

HOD (Physical Sciences)

Dean (UIS)



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Department of Physical Sciences

Ref. No: S.B.S.W. UIS/P42025/436(a)

Date: .3.0 .5 25

Proceedings of Meeting of Board of Studies (BoS) of Department of Physical Sciences

The Board of Studies (BOS) meetings for the approval of scheme & syllabus of MSc.(Hons.) Physics 2year programme (as per NEP 2020) offered by Department of Physical Sciences for batch 2025 onwards was held on 28th May 2025 from 11:00 AM

Following members were present in the meeting and approved the BOS agenda:

S.N o.	Name	Subject	Designation	Institute	Position	Signature
l	Dr. Vijay Dhir	CSE	Dean Academics	SBBSU		
2	Dr. Shweta Singh	Microbiology	Dean UIS		Chairperson	Ma
3	Dr. Nareshpal	Physics		UIS	Member	meto
	Singh Saini	Thysics	(Retd.) Professor	Department of Physics,	External	Present
				Guru Nanak Dev University, Amritsar, India	subject Expert (Physics)	online
					(1 hysics)	
				Email: nssaini.phy@gndu.ac.in ;		
	- 49			Mobile: +91-9417384692.		
4	Dr. Nisha Sharma	Chemistry	77	Office: +91-183-2258802		
		Chemistry	Head, Physical Sciences, Professor	UIS	Member	
5	Dr. Honey Sharma	DI :	(Chemistry)			Huhel
-	Dr. Honey Sharma	Physics	Coordinator	UIS	Member	0
			Physical Sciences, Associate Professor			flut
6	Dr. Satnam Singh	Physics	(Physics)			' /
Sec.		Fliysics	Assistant Professor	UIS	Internal	01.0
	Dr. Rampal	Physics	Assistant Professor	UIS	Member	Jakont,
8	Ms. Arwinder Kaur	Physics			Internal Member	Rola
_		-	Assistant Professor	UIS	Internal	133
9	Dr Jagdeep Kaur (De	an UIET) / Her re	epresentative		Member	- Kan
10	Dr Aneet Kumar (De		Member	The		
11	Dr. Pooja Bali (Dean	Member	Au			
12		Member	20019			
	Dr. Ajay Pathania (D	y Dean UICM)/	His representative		Member	1
13	Dr. Nirmal Kaur (Dy	Dean UICAIS)/I-	Her representative			US-
					Member	113



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Following agenda items were discussed and approved as follow:

- 1. Discussed and approved the scheme, credit and syllabus of MSc.(Hons.) Physics 2year (PG048) as per NEP 2020 for the admissions of session 2025-26 onwards.
- 2. Approved the incorporation of vision, mission, programme educational outcomes, programme outcome, programme specific outcomes & course outcomes in scheme and syllabus of MSc.(Hons.) Physics 2year (PG048) as per NEP 2020).
- 3. Discussed and approved the syllabus of major and discipline specific elective courses of MSc.(Hons.) Physics 2year (PG048) as per NEP 2020).
- 4. Discussed & approved various curriculum aspects on the basis of Feedback of stakeholders (Students/Alumni/Teachers/Employers) i.e. Incorporation of more elective/core courses on the basis of specialization oriented, technological advancements, practicability employable skills.
- 5. Amendments in the course curriculum on the basis of suggestions by the experts regarding scheme and syllabus.

Details of Proceedings of BoS Meeting & Changes approved as per the agenda are as follows:-

- 1. Approved scheme and syllabus of new courses of physics introduced in MSc. (Hons.) Physics 2year (PG048) as per NEP 2020 for batch 2025 onwards.
- 2. Approved new course code for MSc.(Hons.) Physics 2year (PG048) as per NEP 2020.

New Courses introduced & approved as per the agenda were as follows:

New Courses of Physics introduced in MSc. (Hons.) Physics 2year (PG048) as per NEP 2020).

No.	Programme Name/Code	Course Code	Course/ Subject Name	Remarks / Observations by Experts/Stakeholders/BoS members)	Action Taken
1.	MSc. (Hons.) Physics 2year (PG048)	PHY551	Quantum Mechanics	As per NEP2020, In 2 year master programme, a major course on quantum mechanics with revised course content as per CSIR NET is introduced so that student acquire coherent knowledge of the subject.	Incorporated in the curriculum. Implemented w.e.f Academic session 2025- 2026
2. ;	MSc.(Hons.) Physics 2year (PG048)	PHY552	Electrodynamics-I	As per NEP2020, In 2 year master programme, a major course on Electrodynamics-I with revised course content on various law of electrostatics & magnetostatics, electromagnetic waves as per CSIR NET is introduced so that student acquire coherent knowledge of the subject	
3	MSc.(Hons.) Physics 2year (PG048)	PHY554	Condensed Matter Physics-I	As per NEP2020, In 2 year master programme, a major course on Condensed Matter Physics -I with revised course content on magnetic materials ,superconductivity, defects in solids &lattice vibrations as per CSIR NET is	



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				introduced so that student acquire coherent knowledge of the subject	
4	MSc.(Hons.) Physics 2year (PG048)	PHY651	Electrodynamics-II	As per NEP2020, In 2 year master programme, discipline specific elective course on Electrodynamics-II with revised course content on wave guides, relativistic formulation, moving charges as per CSIR NET is introduced so that student acquire coherent knowledge of the subject.	
5	MSc.(Hons.) Physics 2year (PG048)	РНҮ653	Radiation Physics	As per NEP 2020 In 2 year master programme, discipline specific elective course on Radiation physics has been introduced as per aspect of employability & industrial skill. Student can acquire coherent knowledge on radiation effects &its protective measures	Incorporated in the curriculum. Implemented w.e.f Academic session 2025- 2026
6	MSc.(Hons.) Physics 2year (PG048)	PHY655	Plasma Physics	As per NEP 2020 In 2 year master programme, discipline specific elective course on Plasma physics has been introduced as per aspect of employability & industrial skill. Student can acquire coherent knowledge on electrostatics propogation of E.M waves in magnetised/Non magnetised plasma.	
7	MSc.(Hons.) Physics 2year (PG048)	PHY657	Non- Linear Dynamics	As per NEP 2020 In 2 year master programme, discipline specific elective course on Non linear dynamics has been introduced such that student can acquire coherent knowledge on linear stability analysis.	
8	MSc.(Hons.) Physics 2year (PG048)	PHY659	Condensed Matter Physics -II	As per NEP2020, In 2 year master programme, a discipline specific elective course on Condensed Matter Physics -II with revised course content on lattice specific heat, free electron theory, dielectrics as per CSIR NET is introduced so that student acquire coherent knowledge of the subject	
9	MSc.(Hons.) Physics 2year (PG048)	РНҮ661	Physics of Nanomaterial	As per NEP 2020 In 2 year master programme, discipline specific elective course on Physics of Nanomaterial has been introduced as per aspect of specialization, research, employability &	



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	WEDSIG. 1			industrial skill. Student can acquire coherent knowledge on different classes of nanomaterials &their industrial uses.	
10	MSc.(Hons.) Physics 2year (PG048)	РНҮ663		As per NEP 2020 In 2 year master programme, discipline specific elective course on spintronics has been introduced as per aspect of specialization, research, employability & industrial skill. Student can acquire coherent knowledge on spin based devices, quantum dots.	
11	MSc.(Hons.) Physics 2year (PG048)	PHY665	Polymers &Liquid Crystal	As per NEP 2020 In 2 year master programme, discipline specific elective course on polymers & liquid crystal has been introduced as per aspect of specialization, research, employability & industrial skill. Student can acquire coherent knowledge on different methods of preparing polymer &liquid crystal based materials	
12	MSc.(Hons.) Physics 2year (PG048)	PHY652	Nanotechnology	As per NEP 2020 In 2 year master programme, discipline specific elective course on nanotechnology has been introduced as per aspect of specialization, research, employability & industrial skill. Student can acquire coherent knowledge of different techniques of synthesize &characterization of nanoparticles.	
	MSc.(Hons.) Physics 2year (PG048)	PHY654	Solar Cells and its Applications	As per NEP 2020 In 2 year master programme, discipline specific elective course on solar cells and its applications has been introduced as per aspect of specialization, research, employability & industrial skill. Student can acquire coherent knowledge of different types of solar cell and its industrial uses.	
	14 MSc.(Hons.) Physics 2yea (PG048)		Thin Film Technology	As per NEP 2020 In 2 year master programme, discipline specific elective course on Thin Film Technology has been introduced as per aspect of specialization, research, employability & industrial skill. Student can acquire coherent knowledge of different techniques of synthesize &characterization of thin films and their industrial uses.	



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15	MSc.(Hons.) Physics 2year (PG048)	PHY658	Introduction to NMR Spectroscopy	As per NEP 2020 in 2 year master programme, discipline specific elective course on Introduction to NMR Spectroscopy has been introduced as per aspect of specialization, research, employability & industrial skill. Student can acquire coherent knowledge of different spectroscopic techniques of NMR, ESR and its applications.
16	MSc.(Hons.) Physics 2year (PG048)	PHY660	Physics of Low Dimensional Semiconductors	As per NEP 2020 In 2 year master programme, discipline specific elective course on Physics of Low Dimensional Semiconductors has been introduced as per aspect of specialization, research, employability & industrial skill. Student can acquire coherent knowledge of subject and acquire knowledge to work with quantum well and apply its applications in industry.
1	7 MSc.(Hons.) Physics 2year (PG048)	PHY662	Non-Linear Fibre Optics	As per NEP 2020 In 2 year master programme, discipline specific elective course Non-Linear Fibre Optics has been introduced as per aspect of specialization, research, employability & industrial skill. Student can acquire coherent knowledge of non linear fibre optics.
	MSc.(Hons.) Physics 2year (PG048)	PHY664	Dissertation -II	As per NEP 2020 In 2 year master programme, major course on Dissertation - II has been introduced as per aspect of specialization, research, employability & industrial skill. Student can acquire coherent knowledge of hands on training, analysizing data, interpreting results.



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Other Suggestions of External Experts (Not covered above):

Name of	Designation/Address	Expert's suggestions	Action Taken
Dr. Nareshpal Singh Saini	(Retd.) Professor, Department of Physics, Guru Nanak Dev University, Amritsar, India Email: nssaini.phy@gndu.ac.in ; Mobile: +91-9417384692, Office: +91-183-2258802	To break the course content of Electrodynamics & condensed matter physics into two parts.	 Electrodynamics-I & condensed matter physics-I is incorporated in second semester as the part of major courses. Electrodynamics-II & condensed matter physics-II is incorporated in third semester as the part of discipline specific elective courses.

As suggested by the experts, all amendments have been incorporated in scheme and syllabus.

Meeting ended with the thanks by Dean Academics.

(Associate Professor Physics)

Dr Satnam Singh (Assistant Professor Physics)

Dr Honey Sharma (Associate Professor Physics)

Coordinator, Physical Sciences

Dr Rampal (Assistant Professor Physics)

Ms. Arwinder Kaur (Assistant Professor Physics)

Dr Nisha Sharma (Professor Chemistry)

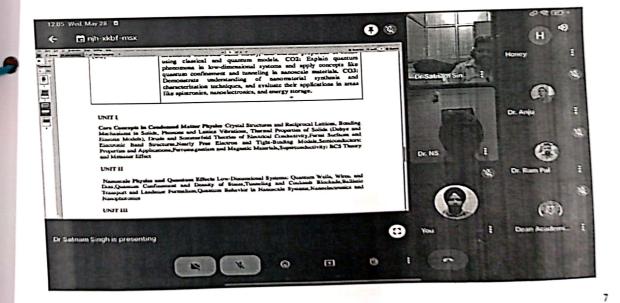
HOD, Physical Sciences





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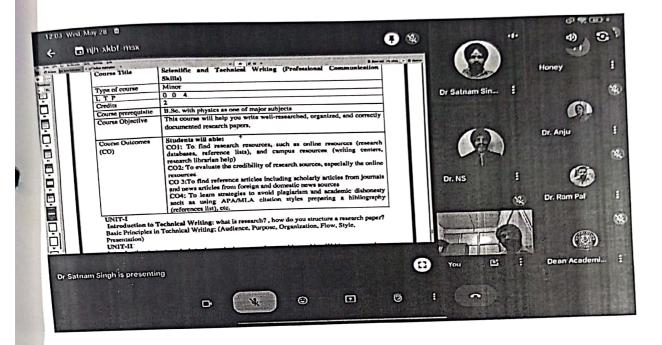


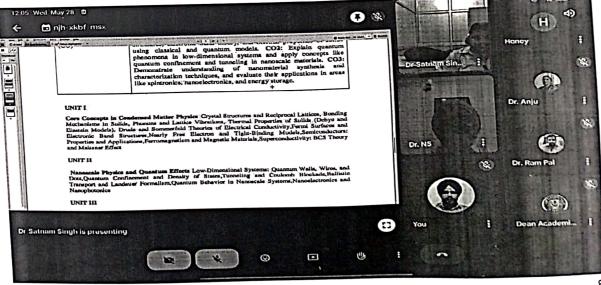




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External Expert Review Performa For Board of Studies

	中国建筑的特殊的一种发展的 经基础的 医神经神经 计
Name of External Expert	DR NARESHPAL SINGH SAINS
Discipline	PHYSICS
Designation	. PROFE-SSOR (RD)
Organization (Name & Address):	St. Holy Gty Phete-1, Ajnala
	Road Brepass, Amliter-14308
Contact No.	9417384692
E-Mail ID	N.S.SAINI @ YAHOO. COM
Date of Visit/Meeting	25/05/2025
Reviewer's Comments :-	1975年前1974年2月21日 1984年1994日 1984年1984日 1984年1984日 1984年1984日 1984年1984日 1984年1984日 1984年1984日 1984年1984日 1984年1
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	Date. 03/05/2015
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VIII. Khiala, P.O. Padhlana, Diatt. Jalandhar - 144 030 (PB.) Recognized by UGC under Section 2(f) of UGC Act, 1864.

Dated 24-5-203

Ref. No. S.B.B.Su/DA/25/116

To

Dr. Nareshpal Singh Saint (Retd.) Professor, Department of Physics. Guru Nanak Dev University, Amritsar, India

Subject: Invitation for Board of Studies meeting in the Department of Physical Sciences

Respected Sir,

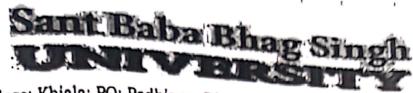
This is to bring to your kind notice that the meeting of Board of Studies (BOS) of Department of Physical Sciences, University Institute of Sciences, Sant Baba Bhag Singh University, Khiala, Jalandhar is going to be held on May 28th 2025 at 11:00 AM through online mode. You have been nominated as an expert for the BoS meeting by the competent authority. I feel honor to invite you as an expert for the approval of Course Scheme and Syllabus of Physics in B.Sc. Physical Sciences Batch 2024, B.Sc. /B.Sc. (Hons.)/B.Sc. (Hons.) with Research in Physics Batch 2025, M.Sc. (Hons.) Physics as per NEP 2020, Ph.D Physics coursework and Interdisciplinary courses of Physics offered by Department of Physical Sciences. Your experience and expertise will be of great help to the Department and University. You are requested to kindly spare your valuable time to participate in the same on May 28th 2025 at 11:00 AM.

Regards

Dr. Vijey Diff Dean Academics SBBS University

Call: 0181-2711163 / Fax: 0181-2711611





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Department of Physical Sciences

Rel No: SBBSU/UIS/PS/2025/ 429

Date: 13/5/25

The Vice Chancellor

SBBS University,

Jalandhar

Subject: For the approval of the expert for BOS of Physical Sciences (Physics)

Respected Sir,

It is submitted that Department of Physical Sciences have to conduct BOS for the discipline of Physics for (B.Sc. Physical Sciences Batch 2024, BSc./ BSc. (Hons.) B.Sc. (Hons. with Research) in Physics 2025 onwards, M.Sc (Hons.) Physics and Ph.D Physics) and interdisciplinary courses of Physics offered by Physical Sciences as per NEP 2020 on 21st May 2025. Kindly approve the subject Expert from the following panel.

Physics	ı		
S No.	Name	Designation	University/Institute
1	Dr. Nareshpal Singh Saini	(Retd.) Professor	Department of Physics, Guru Nanak Dev University, Amritsar, India
			Email: nssaini@yahoo.com, nssaini.phy@gndu.ac.in
			Mobile: +91-9417384692, Office: +91-183-2258802
2	Dr. H.M Mittal	Professor	Department of Physics, Dr B.R Ambedkar National Institute of Technology, Jalandhar, Punjab-144011,
			Email ID: mittalhm@nitj.ac.in; Mobile: 9417119665
3	Dr. Smriti Khosla	Associate Professor	Department of Physics, DAV University, Jalandhar, Email: samritis@yahoo.com, PH: 9815670705

Kindly approve Honorium (Rs 2000/-) for the expert as well.

Thanking you in anticipation

Head (Physical Sciences)