



Sant Baba Bhag Singh UNIVERSITY

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

Ref. No: S.B.B.S.U./UIS/PS/2025/434(b)

Date: 20/5/25

Department of Physical Sciences

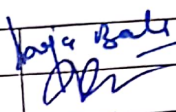
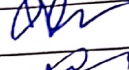
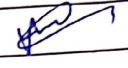
Meeting Circular

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 PhD Physics 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	
2	Dr. Shweta Singh	Microbiology	Dean UIS	UIS	Member	
3	Dr. Nareshpal Singh Saini	Physics	(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	External subject Expert (Physics)	Present online
4	Dr. Nisha Sharma	Chemistry	Head, Physical Sciences, Professor (Chemistry)	UIS	Internal Member	
5	Dr. Honey Sharma	Physics	Coordinator Physical Sciences, Associate Professor (Physics)	UIS	Internal Member	
6	Dr. Satnam Singh	Physics	Assistant Professor	UIS	Internal Member	
7	Dr. Rampal	Physics	Assistant Professor	UIS	Internal Member	
8	Ms. Arwinder Kaur	Physics	Assistant Professor	UIS	Internal Member	
9	Dr Jagdeep Kaur (Dean UIET) / Her representative				Member	
10	Dr Aneet Kumar (Dean UIE) /His representative				Member	




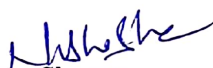
Dr. Pooja Bali (Dean UIL)/ Her representative	Member	
Dr. Ajay Pathania (Dy Dean UICM)/ His representative	Member	
Dr. Nirmal Kaur (Dy Dean UICAIIS)/Her representative	Member	


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


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: S.BBSU/UIS/PS/2025/436(b)

Date: 30/5/25

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 Ph.D Physics offered by Department of Physical Sciences for batch 2025 onwards was held on 28th May 2025 from 11:00 AM onwards through online mode (Google Meet).

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

S.N o.	Name	Subject	Designation	Institute	Position	Signature
	Dr. Vijay Dhir	CSE	Dean Academics	SBBSU	Chairperson	
2	Dr. Shweta Singh	Microbiology	Dean UIS	UIS	Member	
3	Dr. Nareshpal Singh Saini	Physics	(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	External subject Expert (Physics)	Present online
4	Dr. Nisha Sharma	Chemistry	Head, Physical Sciences, Professor (Chemistry)	UIS	Member	
5	Dr. Honey Sharma	Physics	Coordinator Physical Sciences, Associate Professor (Physics)	UIS	Member	
6	Dr. Satnam Singh	Physics	Assistant Professor	UIS	Internal Member	
7	Dr. Rampal	Physics	Assistant Professor	UIS	Internal Member	
8	Ms. Arwinder Kaur	Physics	Assistant Professor	UIS	Internal Member	
9	Dr Jagdeep Kaur (Dean UIET) / Her representative				Member	
10	Dr Aneet Kumar (Dean UIE) /His representative				Member	
11	Dr. Pooja Bali (Dean UIL)/ Her representative				Member	
12	Dr. Ajay Pathania (Dy Dean UICM)/ His representative				Member	
13	Dr. Nirmal Kaur (Dy Dean UICAIIS)/Her representative				Member	



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Following agenda items were discussed and approved as follow:

1. Discussed and approved the scheme, credit and syllabus of Ph.D Physics 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 Ph.D Physics.
3. Amendments in the course curriculum on the basis of suggestions by the experts regarding scheme and syllabus.

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

1. Approved scheme and syllabus of new course for course work of Ph.D Physics for batch 2025 onwards.
2. Approved new course code for Ph.D Physics.

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

2.1 New Courses of Physics introduced in Ph.D Physics syllabus.

S.No.	Programme Name /Code	Course Code	Course/ Subject Name	Remarks / Observations by Experts/Stakeholders/BoS members)	Action Taken
1.	Ph.D (Physics)	PHY 903	Foundations and Frontiers in Nanoscience	In Ph.D Physics programme, discipline specific elective course on Foundations and Frontiers in Nanoscience has been introduced as per aspect of specialization, research, employability & industrial skill. Student can acquire indepth knowledge on different aspects of nanoscience.	Incorporated in the curriculum. Implemented w.e.f Academic session 2025-2026

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@yahoo.com , nssaini.phy@gndu.ac.in : Mobile: +91-9417384692, Office: +91-183-2258802	Expert has appreciated the effort of faculty for designing the syllabus of course work of PhD Physics.	Duly Acknowledged

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)

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

Dean of Institute

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12:05 Wed May 26

using classical and quantum models. CO2: Explain quantum phenomena in low-dimensional systems and apply concepts like quantum confinement and tunneling in nanoscale materials. CO3: Demonstrate understanding of nanomaterial synthesis and characterization techniques, and evaluate their applications in areas like spintronics, nanoelectronics, and energy storage.

UNIT I
Core Concepts in Condensed Matter Physics: Crystal Structures and Reciprocal Lattices, Bonding Mechanisms in Solids, Phonons and Lattice Vibrations, Thermal Properties of Solids (Debye and Einstein Models), Drude and Sommerfeld Theories of Electrical Conductivity, Fermi Surfaces and Electronic Band Structures, Nearly Free Electron and Tight-Binding Models, Semiconductors: Properties and Applications, Ferromagnetism and Magnetic Materials, Superconductivity: BCS Theory and Meissner Effect

UNIT II
Nanoscale Physics and Quantum Effects: Low-Dimensional Systems: Quantum Wells, Wires, and Dots, Quantum Confinement and Density of States, Tunneling and Coulomb Blockade, Ballistic Transport and Landauer Formalism, Quantum Behavior in Nanoscale Systems, Nanoelectronics and Nanophotonics

UNIT III

Dr Satnam Singh is presenting

You

Dean Academi...

Dr. NS Saini

Honey Sharma

Dean Academics SBBSU

Dr. Anju Sood

Dr. NS Saini

Mithu Maiti

Dr. Satnam Singh

Dr. Ram Pal Shukla

Dr. Satnam Singh

11:02 AM

Wednesday, May 26, 11:02

People

Add people

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IN THE MEETING

Contributors

- Dr. Satnam Singh (You) Meeting host
- Dean Academi...
- DEAN UJS
- Dr. Satnam Singh Meeting host
- Dr. Anju Sood
- Dr. NS Saini
- Dr. Ram Pal Shukla
- Honey Sharma
- Mithu Maiti



Sant Baba Bhag Singh University

(University Established under Punjab Act No. 6 of 2013)

Vill. Khiala, P.O. Padhlana, Dist. Jalandhar, Punjab, INDIA

External Expert Review Performa For Board of Studies

Name of External Expert : DR. NARESH PAL SINGH SAINI
Discipline : PHYSICS
Designation : PROFESSOR (RDT)
Organization (Name & Address) : P.T. Holy City Phase-1, Afzalpur
Road Bypass, Amritsar - 143008
Contact No. : 94173 84692
E-Mail ID : N.S.SAINI@YAHOO.COM
Date of Visit/Meeting : 28/05/2025

Reviewer's Comments :-

There were some changes in the course scheme and content of syllabus. It was suggested in online chat after making changes, revised syllabus should be prepared. Overall, schemes for both UG and PG classes were good.

❖ Use extra sheet(s) if required.

Signature

DR. N. S. Saini

Date: 03/06/2025

Coordinator/HOD's/Dean's

Dean Academics



Open with



SANT BABA BHAG SINGH UNIVERSITY

VIII. Khiala, P.O. Padhlana, Distt. Jalandhar - 144 000 (PB.)
Recognized by UGC under Section 2(f) of UGC Act, 1956.

Ref. No. SBBSU/DA/27/116

Dated 24-5-2022

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. Vijay Dhir
Dean Academics
SBBS University

Call : 0181-2711163 / Fax : 0181-2711611



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Department of Physical Sciences

Ref No: GKSU/UIS/PS/2025/ 429

Date: 13/5/25

Chancellor
University,

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

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

[Signature]
Coordinator (Physical Sciences)
13/5/25

Recommended & forwarded
to Dean Academics

[Signature]
13/5/25

Recommended

[Signature]
13/5/25

[Signature]
13/5/2025
Head (Physical Sciences)

Serial No 1
Dr Nareshpal Singh
Saini
of GNDU, ASR
is approved.
[Signature]
13/5/25

