Sant Baba Bhag Singh UNIVERSITY

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

Department of Physical Sciences

Ref. No: SBBSU/UIS/PS/2021/106 **Date: 25/8/2021**

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

As per circular wide no SBBSU/UIS/PS/2021/95 dated 09-08-2021 the meetings of the Board of Studies (BOS) in Department of Physical Sciences for discipline of Physics and Mathematics was held on 10th August, 2021 at 11:00 AM onward through online/offline mode (blended Mode).

Following members were present and approved the points discussed below.

S.No.	Name	Subject	Designation	Institute	Position	Signature
1	Dr. Indu Sharma	Botany	Dean Academics	SBBSU	Chairperson	
2	Dr. Vikas Sharma	Agriculture	Dean UIS	UIS	Member	
3	Dr. Nareshpal Singh Saini	Physics	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 Expert Member	Present Online
4	Dr. Om Parkash	Mathematics	Professor	Department of Mathematics, Guru Nanak Dev University, Amritsar, India Email: omparkash777@yahoo.co.in; PH: 9814856017	External Expert Member	Present Online
5	Dr. Nisha Sharma	Chemistry	Coordinator, Physical Sciences,	UIS	Member	10/8/2021
6	Dr. Anju Sood	Mathematics	Associate Professor	UIS	Internal Member	10/8/2021
7	Dr. Ashima Kanwar	Mathematics	Assistant Professor	UIS	Internal Member	
8	Dr. Inderdeep Singh	Mathematics	Assistant Professor	UIS	Internal Member	10/8/2021
9	Dr. Honey Sharma	Physics	Assistant Professor	UIS	Internal Member	10/8/21
10	Dr. Ankush Kumar	Physics	Assistant Professor	UIS	Internal Member	10/8/21
11	Ms. Arwinder Kaur	Physics	Assistant Professor	UIS	Internal Member	10/8/2021
12	Ms Meena	Physics	Assistant Professor	UIS	Internal Member	10/8/2021

13	Ms Haramnpreet Kaur	Mathematics	Assistant Professor	UIS	Internal Member	
14	Ms Baljinder Kaur	Mathematics	Assistant Professor	UIS	Internal Member	10/8/21
15	Mr Gurpreet Singh	Mathematics	Assistant Professor	UIS	Internal Member	
16	Mr Jujhar Singh	Mathematics	Assistant Professor	UIS	Internal Member	10/8/21
17	Dr. Vijay Dhir(Dean UIET) / His representative				Member	
18	Dr Aneet Kumar (Dean UIE & UIH) /His or Her representative				Member	
19	Dr. Seema Garg (Dean UIL, UICM), UICAIS/ His or Her representative				Member	

1. **Agenda items discussed and approved were as follow:**

   1.Discussed and approved various schemes & Syllabus of Physics & Mathematics for following programmes, viz: { B.Sc. Non Medical (UG031), M.Sc. (Hons.) Physics (PG037), M.Sc. (Hons.) Mathematics(PG036) for the admissions of session 2021-2022 onwards in accordance to the Choice Based Credit System(CBCS).

2. Discussed and approved credits & Syllabus of Interdisciplinary Core/DSE Courses of Physics & Mathematics offered for different programmes in different departments.
3. Approved the Incorporation of revised vision, mission, Programme Educational Objects (PEOs), Programme Outcome (POs), Programme Specific Outcome (PSOs), & Course Outcomes (COs) in Scheme & syllabus of programmes and Courses offered by Physical Sciences.
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 (Detail is attached).
5. Discussed & Approved course code and credits for Elective courses.
6. Approved incorporation of summer training for M.Sc. (Hons.) Physics (PG037) programme and Practical training in course curriculum of B.Sc. Non Medical (UG031).
7. Amendments in the course curriculum on the basis of suggestions by the experts regarding scheme and syllabus.

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

Approved Scheme and syllabus of new courses Introduced, Syllabus revised in following programmes

a) **B.Sc Non Medical (UG031)**
b) **M.Sc. (Hons.) Physics (PG037)**
c) **M.Sc. (Hons.) Mathematics (PG036)**
d) **Interdisciplinary Core/DSE Courses of Physics & Mathematics offered for different programmes (Detail attached).**

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2.1 New Courses introduced in the agenda were as following:

Sr. No.	Programme in which new course introduced	Course Code	Course/ Subject Name	Remarks / Observations by Experts/Stakeholders/BoS members)	Action Taken
			Physics Courses		
1	B.Sc. Non Medical (UG031)		Practical training	As per UGC guidelines and NEP 2021, practical training (Non credit 72 Hour) have been included in course curriculum of UG programmes (B.Sc Non Medical) to be completed in three year degree tenure to improve their technical skills and employability and competence.	**Incorporated in the curriculum. Implemented w.e.f Academic session 2021 - 2022**
2	M.Sc. (Hons.) Physics /3rd sem (PG037)	PHY615	Fabrication of Electronic Devices	New course introduced as Discipline specific Elective for M.Sc. (Hons.) Physics in 3rd sem as per the aspect of specialization & employability& industrial skills	
3	M.Sc. (Hons.) Physics /4th sem (PG037)	PHY616	Nuclear Accelerator and Radiation Physics	New course introduced in Elective pool for M.Sc. (Hons.) Physics in 4th sem as per the aspect of specialization & employability& industrial skills	
4	M.Sc. (Hons.) Physics /4th sem (PG037)	PHY624	Analytical techniques for materials	New course introduced as Elective pool for M.Sc. (Hons.) Physics in 4th sem as per the aspect of specialization & employability& industrial skills	
5	M.Sc. (Hons.) Physics /4th sem (PG037)	PHY625	Seminar & Summer Traning	To enhance the laboratory skills and provide outdoor exposure to students, summer training as a credit based course in incorporated along with seminar.	
6	B.Tech. (ME) (UG021)	PHY205	Introduction to Electromagnetic	New course for B.Tech Mechanical) has been introduced on request of UIET and As per model curriculum provided by AICTE for B.Tech (ME).	
7	B.Tech.(ME) (UG021)	PHY207	Introduction to Electromagnetic Practical	New course for B.Tech Mechanical) has been introduced on request of UIET and As per model curriculum provided by AICTE for B.Tech (ME).	
			Mathematics Courses		
1.	M.Sc.(Hons.) Mathematics/3rd sem (PG036)	MAT629	Fundamentals of Python	New course introduced as Discipline specific Elective for M.Sc. (Hons.) Mathematics, 3rd sem	
2.	M.Sc. (Hons.) Mathematics/3rd sem (PG036)	MAT631	Fractional Calculus	New course introduced as Discipline specific Elective for M.Sc. (Hons.) Mathematics, 3rd sem	
3.	M.Sc. (Hons.) Mathematics/4th sem (PG036)	MAT630	Introduction to R Programming	New course introduced as Discipline specific Elective for M.Sc.(Hons.) Mathematics, 4th sem	

4.	M.Sc. (Hons.) Mathematics/4th sem (PG036)	MAT632	Coding Theory	New course introduced as Discipline specific Elective for M.Sc.(Hons.) Mathematics, 4th sem	**Incorporated in the curriculum. Implemented w.e.f Academic session 2021 - 2022**
5.	B.Sc. Non Medical/5th (UG031)	MAT301	Numerical Methods	New course introduced as Discipline specific Elective for B.Sc. Non Medical,5th sem	
6.	B.Sc. Non Medical/ 5th (UG031)	MAT307	Theory of Equations	New course introduced as Discipline specific Elective for B.Sc. Non Medical, 5th sem	
7.	B.Sc. Non Medical/ 6th (UG031)	MAT308	Introduction to Operation Research	New course introduced as Discipline specific Elective for B.Sc. Non Medical, 6th sem	
8.	B.Sc. Non Medical/ 6th (UG031)	MAT310	Probability and Statistics	New course introduced as Skill Enhancement Course for B.Sc. Non Medical,6th sem	
9.	B.Sc. Non Medical (UG031)		Practical training	As per UGC guidelines and NEP 2021, practical training (Non credit 72 Hour) have been included in course curriculum of UG programmes (B.Sc Non Medical) to be completed in three year degree tenure to improve their technical skills and employability and competence.	

2.2 Approved the changes in the content of the following subjects:-

Sr. No.	Programme in which course content revised	Course Code	Course/ Subject Name	Remarks / Observations by Experts/Stakeholders/BoS members)	Action Taken
			Physics Courses		
1	MSc Hons Physics /Ist (PG037)	PHY501	Electronics	Introduction of some relevant content as per UGC/CSIR-NET point of view.	**Incorporated in the curriculum. Implemented w.e.f Academic session 2021 - 2022**
2	M.Sc. (Hons.) Physics/Ist (PG037)	PHY507	Computational Techniques	Introduction to FORTRAN basics in unit 4	
3	M.Sc. (Hons.) Physics/Ist (PG037)	PHY511	Electronics lab	Some more experiments are added as per their availability in virtual lab.	
4	M.Sc. (Hons.) Physics/IInd (PG037)	PHY502	Quantum Mechanics -II	WKB approximation is added in unit-I from the view point of UGC NET.	
5	M.Sc. Hons Physics/Iind (PG037)	PHY510	CMP Lab	Some more experiments are added as per their availability in virtual lab.	
6	M.Sc. (Hons.) Physics /IInd (PG037)	PHY512	Atomic and molecular spectroscopy lab	Some more experiments are added as per their availability in virtual lab.	
7	M.Sc. (Hons.) Physics /IIIrd (PG037)	PHY609	Experimental Techniques	Revision in the content of Unit I-III	

8	M.Sc. (Hons.) Physics /IIIrd (PG037)	PHY617	Nuclear Physics Labs	Some more experiments are added	
9	M.Sc. (Hons.) Physics /IV (PG037)	PHY608	Plasma Physics	Shifted from Elective pool to Discipline specific Elective pool.	
10	M.Sc. (Hons.) Physics /Ivth (PG037)	PHY610	Physics of Materials	Major revision in the content of Unit I-III	
11	B.Sc. Non Medical/Ist (UG031)	PHY101	Mechanics	More relevant topics are added in unit I-IV	
12	B.Sc.Non Medical/Ist (UG031)	PHY103	Mechanics(Practical)	Some more experiments are added as per their availability in virtual lab	
13	B.Sc. Non Medical/IInd (UG031)	PHY104	Electricity and Magnetism(Practical)	new experiments added	
14	B.Sc. Non Medical/IIIrd (UG031)	PHY201	Thermal physics and statistical mechanics	relevant topics is added in Unit II,IV	
15	B.Sc. Non Medical/IIIrd (UG031)	PHY203	Thermal physics and statistical mechanics (Practical)	More experiments added	
16	B.Sc. Non Medical/Ivth (UG031)	PHY202	Waves and optics	Revision of content of UNIT I-IV	
17	B.Sc. Non Medical/Vth (UG031)	PHY301	Digital and analog circuits and instrumentation	In UNIT II topic of Amplifier is added	
18	B.Sc. Non Medical/Vth (UG031)	PHY303	Digital and analog circuits and instrumentation (Practical)	Some more experiments are added as per their availability in virtual lab	**Incorporated in the curriculum. Implemented w.e.f Academic session 2021 - 2022**
19	B.Sc. Non Medical/Vth (UG031)	PHY307	Elements of modern physics(Practical),	Some more experiments are added as per availability in Virtual Labs	
20	B.Sc. Non Medical/VIth (UG031)	PHY304	Solid state physics(Practical),	Some more experiments are added as per availability in Virtual Labs	
21	B.Sc. Non Medical/VIth (UG031)	PHY308	Quantum mechanics(Practical),	Some more experiments are added as per availability in Virtual Labs	
22	B.Sc. Non Medical/VIth (UG031)	PHY312	Nuclear & Particle Physics(Practical)	Some more experiments are added as per availability in Virtual Labs	
23	B.Tech (CE,EE,ECE,ME) (UG017 to UG021)	PHY105	Engineering Physics	Revision in Syllabus has been carried out as per the request of UIET and As per model curriculum provided by AICTE for B.Tech.	
24	B.Tech (CE,EE,ECE,ME) (UG017 to UG021)	PHY107	Engineering Physics Lab	Revision in Syllabus has been carried out as per the request of UIET and As per model curriculum provided by AICTE for B.Tech.	
25	B.Tech.(CSE) (UG018)	PHY115	Semiconductor Physics	Revision in Syllabus has been carried out as per the request of UIET and As per model curriculum provided by AICTE for B.Tech.	

			Mathematics Courses		
1.	M.Sc. (Hons.) Mathematics/3rd (PG036)	MAT625	Numerical Analysis LAB	Content Revised	Incorporated in the curriculum. Implemented w.e.f Academic session 2021 - 2022
2.	B.Sc. Non Medical/1st (UG031)	MAT101	Calculus and Matrices	Subject name is updated from Calculus to Calculus and Matrices and added some important concepts from matrices topic in 4th unit in the syllabus	
3.	B.Sc. Non Medical/2nd (UG031)	MAT102	Differential Equations	One unit related to Laplace Transform is added in 4th unit in the syllabus	
4.	B.Sc. Non Medical/3rd (UG031)	MAT201	Real analysis	A very important topic named Metric Space is added in the previous syllabus	
5.	B.Sc. Non Medical/4th (UG031)	MAT202	Algebra	Added the topic of De-Moivre's theorems and Expansion of trigonometric functions in 4th unit.	
6.	B.Sc. Non Medical/3rd (UG031)	MAT207	Logics and Graph theory	Subject name is revised from Logics and Sets to Logics and Graph theory and included the basic concepts from Graph theory in 4th Unit.	
7.	B.Sc. Non Medical/4th (UG031)	MAT208	Number theory	The syllabus of this course is revised by adding some basic concept related to number theory.	
8.	B.Sc. Non Medical/5th (UG031)	MAT305	Vector Calculus	Topics are added in detailed form in each unit as comparison with the previous one.	
9.	B.Sc. Non Medical/6th(UG031)	MAT302	Integral Calculus	Added two important topics like Riemann Integral in 3rd unit and improper Integrals in 4th Unit.	
10.	M.Tech. (CSE) (PG015, PG016)	CSE502(Old)/ MAT554(New)	Mathematical Foundation of Computer Science	Earlier, the syllabus was splitted into 8 units and keeping in view the pattern of syllabus in the university, it has been divided into 4 units (the syllabus remains same) and the New Code is MAT554	
11.	MCA (PG001)	MAT609(Old)/MAT551(New)	Mathematical Foundation of Computer Science	On recommendations from concerned department, The paper is shifted from 3rd sem to 1st semester and hence course code is revised to MAT551 as per SBBSU coding system	
12.	B.Tech. (ME/EE/CE)/1st (UG017, UG019, UG021)	MAT151	Engineering Mathematics-I	On the recommendions of UIET, course code and course content is revised as per AICTE Model curriculum 2018	
13.	B. Tech. (CSE) /1st (UG018)	MAT153	Engineering Mathematics-I	On the recommendions of UIET, course code and course content is revised as per AICTE Model curriculum 2018	

14.	B.Tech. (ME/EE/CE) /2nd (UG017, UG019, UG021)	MAT152	Engineering Mathematics-II	On the recommendions of UIET, course code and course content is revised as per AICTE Model curriculum 2018	
15.	B.Tech. (CSE)/2nd UG018)	MAT154	Engineering Mathematics-II	On the recommendions of UIET, course code and course content is revised as per AICTE Model curriculum 2018	
16.	B.Tech. (ME/EE/CE) /3rd (UG017, UG019, UG021)	MAT251	Engineering Mathematics-III	On the recommendions of UIET, course code and course content is revised as per AICTE Model curriculum 2018 **(common syllabus has been prepared for ME/EE/CE as recommened by Dean UIET)**	
17.	B.Tech. (CSE)/3rd UG018)	MAT253	Engineering Mathematics-III	On the recommendions of UIET, course code and course content is revised as per AICTE Model curriculum 2018	
18.	B.Tech(CSE)/4th UG018)	MAT212	Discrete Mathematics	On the recommendions of UIET, course code and course content is revised as per AICTE Model curriculum 2018	

2.3 Courses Removed from the list of courses offered for interdepartmental programmes

S.No.	Programme/sem	Course/ Subject Name	Course Code	Remark
1	B.Sc.IT/2nd (UG003)	Discrete Mathematics	MAT106	**Teaching load for these courses have not been given to Mathematics faculty for the last two years and as per the information received from the concerned departments, these curses have been removed from the list of courses offered for interdepartmental programmes)**
2	BBA/B.COM/2nd (UG007, UG009)	Business Mathematics	MAT211	
3	B.Com and BBA/2nd (UG007, UG009)	Business Statistics	MAT110	
4	MBA/1st (PG006)	Quantitative Techniques	MAT521	
5	MBA/MCOM/M.Tech(CSE)/2nd (PG006, PG004, PG015)	Research Methodology and IPR	MAT524-19	
6	BBA/B.COM/B.TECH(ME)7th SEM &4th sem (UG007, UG009, UG021))	Introduction of Operational research	MAT204	
7	BBA/4th (UG009)	Basics of Research Methodology	MAT206	
8	MBA and M.Tech, M.COM/3rd (PG006,PG004, PG015)	Operational Research	MAT611	
9	B.Tech(CSE, ECE, ME, EE, CIVIL)/6th (UG017, UG018, UG019,UG020, UG021)	Numerical and statistical methods	MAT304	
10	B.Tech./7th (UG017, UG018, UG019,UG020, UG021)	Optimization techniques	MAT401	
11	BCA/3rd (UG002)	Mathematical techniques in computer science	MAT203	

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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	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	(a)For MSc (Hons.) Physics, there must be atleast 20% numerical based problems in examination. in major/core theory course. (b)External expert lectures must be organized for UG/PG students	(a)Suggestion will be duly considered and will be implemented from academic session 2021 2022 onward. (b) Department organize Expert lectures from time to time, more subject specific expert lectures will be organized from academic session 2021-2022.

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

Meeting ended with the thanks by Dean Academics.

Thanks you in anticipation

Dr Anju Sood 10/8/2021
(Associate Professor Mathematics)

Dr Ashima Kanwar 10/08/21
(Assistant Professor Mathematics)

Dr Inderdeep Singh
(Assistant Professor Mathematics)

Dr Honey Sharma 10/8/2021
(Assistant Professor Physics)

Dr Ankush Kumar 10/8/21
(Assistant Professor Physics)

10/8/2021
Coordinator , Physical Sciences (UIS, SBBSU)

Dean of Institute (UIS, SBBSU)

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Department of Physical Sciences

Ref. No: SBBSU/UIS/PS/2021/ 95

Date: 09/08/2021

MEETING CIRCULAR

It is my pleasure to inform you that you have been appointed as a member of Board of Studies (BOS) meeting of Physics Mathematics for following courses, viz: (B.Sc NM, M.Sc (Hons.) Physics, M.Sc (Hons.) Mathematics & (Interdisciplinary Core Courses of Physics & Mathematics) offered by Physical Sciences. List of the BOS members is given below:

BoS meeting in Online Mode:

S.No.	Name	Subject	Designation	Institute	Position
1	Dr. Indu Sharma	Botany	Dean Academics	SBBSU	Chairperson
2	Dr. Vikas Sharma	Botany	Dean UIS	UIS	Member
3	Dr. Nareshpal Singh Saini	**Physics**	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	Subject Expert Informed through mail
4	Dr. Om Parkash	Mathematics	Professor	Guru Nanak Dev University, Amritsar, Punjab, India Email: omparkash777@yahoo.co.in; PH: 9814856017	Subject Expert Informed through mail
5	Dr Nisha Sharma	Chemistry	Coordinator, Physical Sciences,	UIS	Member 9/8/2021
6	Dr Anju Sood	Mathematics	Associate Professor	UIS	Internal Member
7	Dr Ashima Kanwar	Mathematics	Assistant Professor	UIS	Internal Member
8	Dr Inderdeep Singh	Mathematics	Assistant Professor	UIS	Internal Member 10/8/21
9	Dr Honey Sharma	Physics	Assistant Professor	UIS	Internal Member 10/8/21
10	Dr Ankush Kumar	Physics	Assistant Professor	UIS	Internal Member 10/8/21
11	Ma Arwinder Kaur	Physics	Assistant Professor	UIS	Internal Member
12	Ms Meena	Physics	Assistant Professor	UIS	Internal Member

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13	Ms Haramnpreet Kaur	Mathematics	Assistant Professor	UIS	Internal Member
14	Ms Baljinder Kaur	Mathematics	Assistant Professor	UIS	Internal Member
15	Mr Gurpreet Singh	Mathematics	Assistant Professor	UIS	Internal Member
16	Mr Jujhar Singh	Mathematics	Assistant Professor	UIS	Internal Member
17	Dr Vijay Dhir (Dean UIET) / His representative				Member
18	Dr Aneet Kumar (Dean UIE) /His or Her representative				Member
19	Dr. Seema Garg (Dean UIL, UICM)/ Her representative				Member

You are requested to attend the meeting on 10/08/2021 (Tuesday) at 11:00 am onwards through online mode for Physics and from 12:15 pm onwards for Mathematics. All are requested to join online as per the link details provided through mail.

The detailed agenda of the meeting will be as follow:

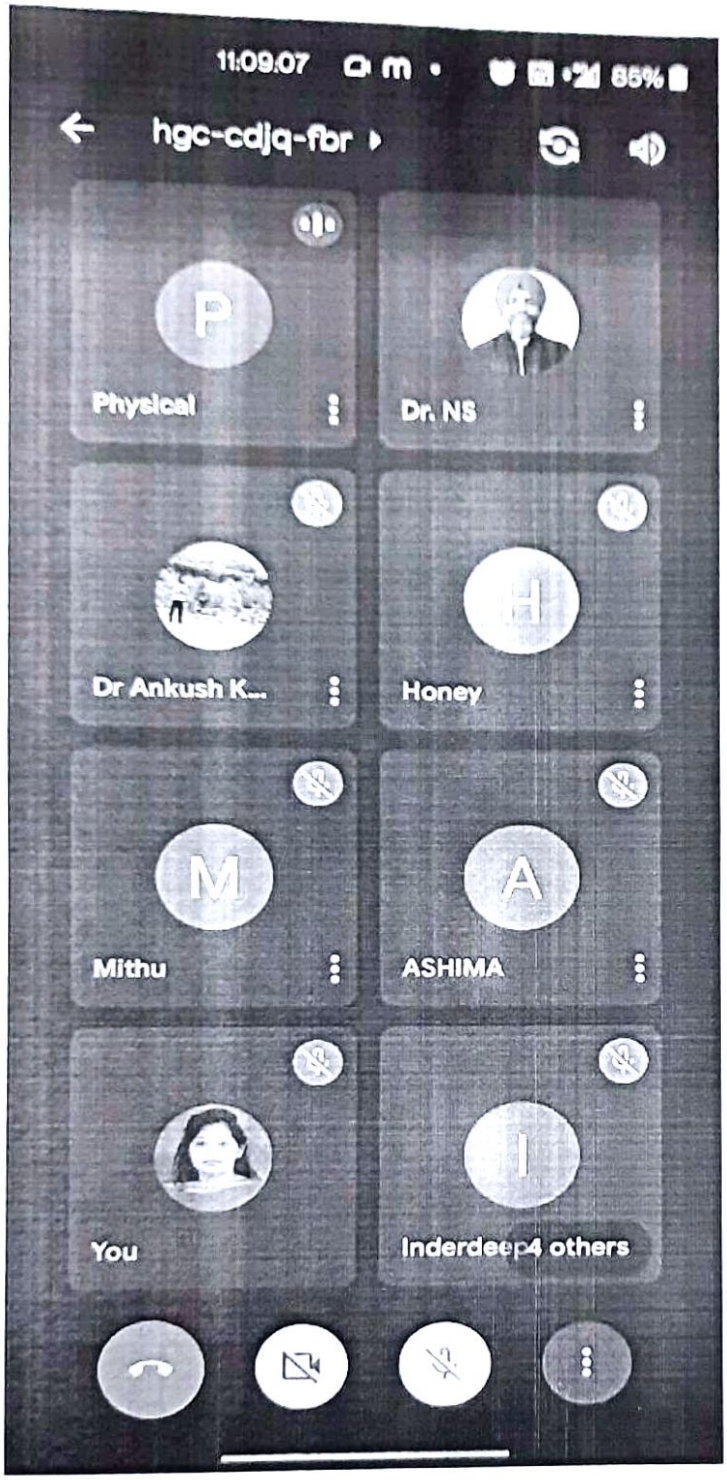
1. Discussion and approval of various schemes & Syllabus of PHYSICS & MATHEMATICS for following programmes, viz: { B.Sc NM, M.Sc (Hons.) Physics, M.Sc (Hons.) Mathematics & (Interdisciplinary Core Courses of Physics & Mathematics) Interdisciplinary Core/DSE Courses of Physics & Mathematics offered for different programmes
2. Incorporation and revision of vision, mission, PO,PEO, PSO and CO into the syllabus.
3. Discussion on curriculum aspects on the basis of Feedback of stakeholders.
4. Amendments of any suggestions by the experts regarding scheme and syllabus.

9/8/2021

Dr Nisha Sharma
Coordinator (Physical Sciences)

9/08/21

Dr. Vikas Sharma
Dean UIS, SBBSU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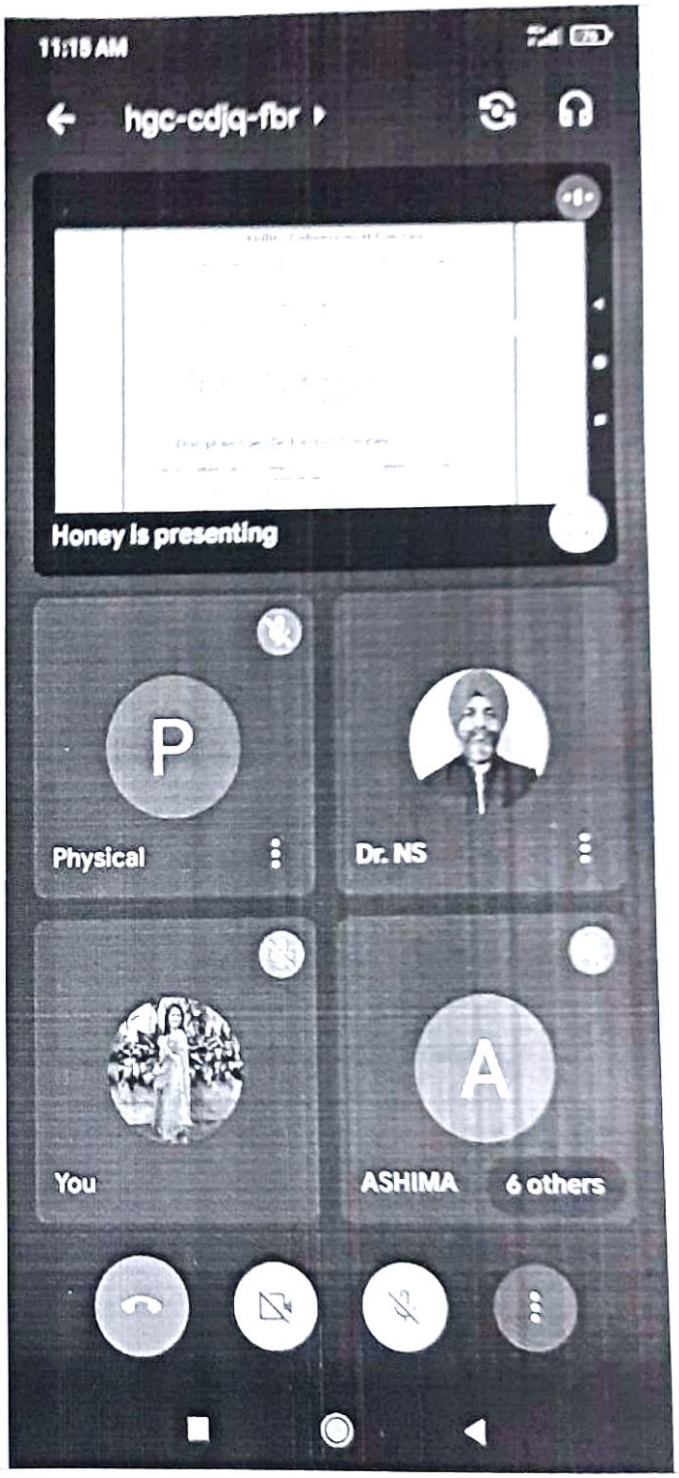
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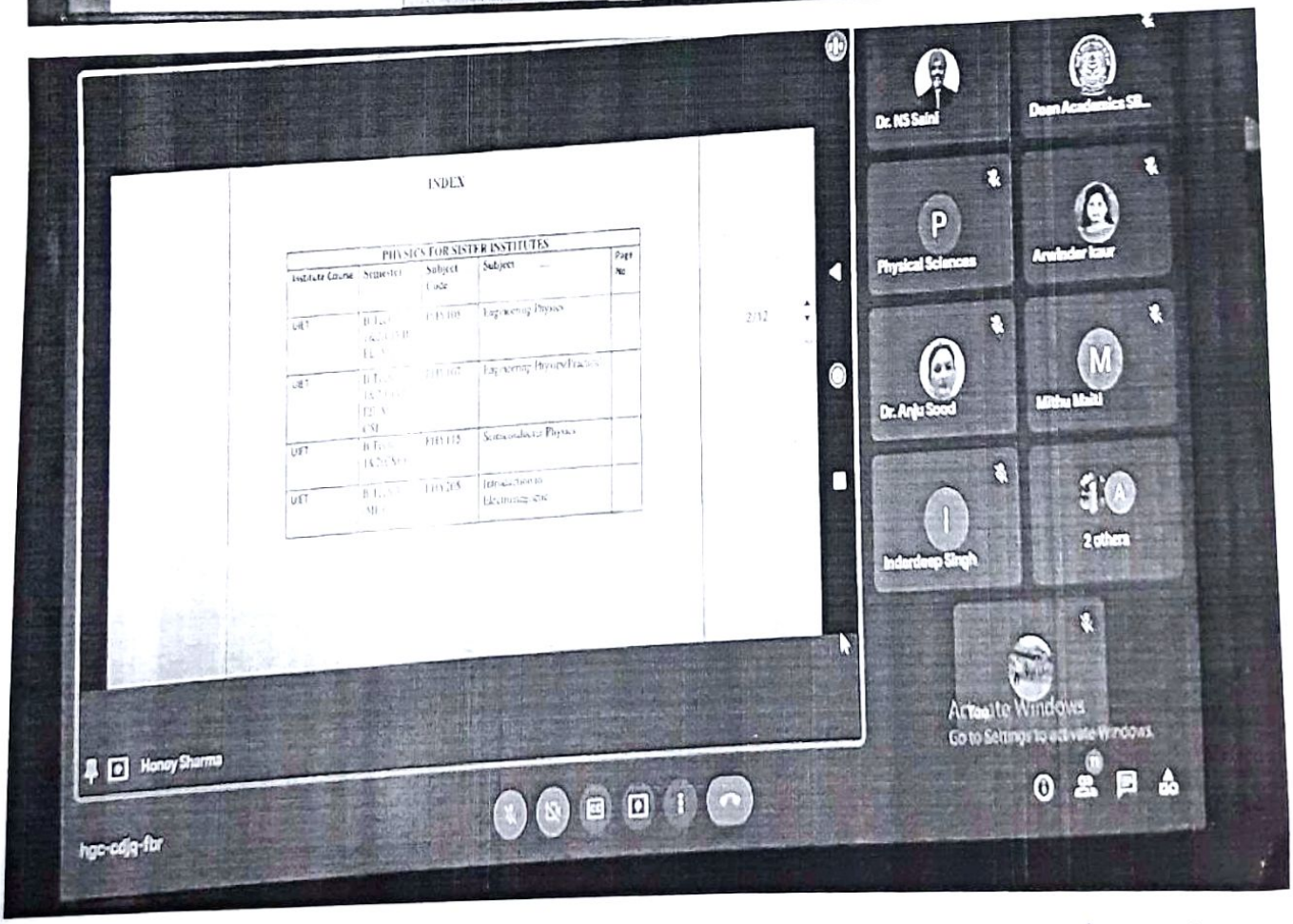
INDEX
PHYSICS FOR SISTER INSTITUTES
Institute Course
Semester
Subject Code
Subject
Page No
Dr. NS Saini
Dean Academics SIL
Physical Sciences
Anvinder Kaur
Dr. Anju Sood
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2 others
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External Expert Review Performa For Board of Studies

Name of External Expert	Om Parkash
Discipline	Mathematics
Designation	Professor
Organization (Name & Address)	Department of Mathematics, Guru Nanak Dev University, Amritsar
Contact No.	9814856017
E Mail ID	omparkash777@yahoo.co.in
Date of Visit/Meeting	10 Aug., 2021

Reviewer's Comments :-

I have gone through the syllabus and moreover upon discussion with the faculty members, I am of the opinion that the syllabus is satisfactory. However, keeping in view the genuine problems of the graduate students, some additional books of Indian authors should be added to their elementary syllabus.

❖ Use extra sheet(s) if required.

Signature

Date..... 10/8/2021

Coordinator/HOD's/Dean's

Dean Academics

Sant Baba Bhag Singh University

(University Established under Punjab Act No.8 of 2015)
Vill. Khiala, P.O. Padhiana, Dist. Jalandhar, Punjab, INDIA

External Expert Review Performa For Board of Studies

Name of External Expert : DR. N. S. SAINI
Discipline : PHYSICS
Designation : PROFESSOR
Organization (Name & Address) : Department of Physics, GNDU Amritsar
Contact No. : 9417384692
E-Mail ID : nssaini.phy@gndu.ac.in
Date of Visit/Meeting : 10/08/2021

Reviewer's Comments :-

1. Syllabi are well designed.
2. In M.Sc (Hons), it is advised that there should be atleast 20% problems/numerical in major theory papers for final examination.
3. Project - II viva-voce should be both external as well as internal
4. In B.Sc. there should be application oriented project ~~work~~ work for students to get more practical knowledge
5. There should be external lecture by eminent experts of Physics for both UG as well as PG students.

❖ Use extra sheet(s) if required.

Signature
( )
Date 10/08/2021

Coordinator/HOD's/Dean's

Dean Academics

Sant Baba Bhag Singh
UNIVERSITY
Village: Khiala: PO: Padhiana, Distt: Jalandhar 144030
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Ref. No. SBBSU/DA/21/129 Date: 09/08/2021

To

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

Subject: Invitation for Board of Studies Meeting in the Department of Physical Sciences, SBBSU

Dear 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), SBBSU, Khiala, Jalandhar is going to be held on 10th August, 2021 through online mode. You have been nominated as an external subject expert for the BOS meeting by the competent authority. I feel honour to invite you as subject expert for the approval of Course Schemes and Syllabus of Physics in UG & PG programmes. Your experience and expertise will be of great help to the Department and University.

Due to the uncertain pandemic COVID-19 situation and advisories of State/Centre Govt. as well as UGC/MHRD, the BOS meeting will be conducting through online mode. Therefore you are requested to kindly spare your valuable time to participate in the same on 10/08/2021 (Tuesday) at 11:00 am.

Regards

(Dr. Indu Sharma)
Dean Academics

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. SBBSU/DA/21/130 Date: 09/08/2021

To

Dr. Om Parkash
Professor
Department of Mathematics,
Guru Nanak Dev University, Amritsar, Punjab, India

Subject: Invitation for Board of Studies Meeting in the Department of Physical Sciences, SBBSU

Dear 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), SBBSU, Khiala, Jalandhar is going to be held on 10th August, 2021 through online mode. You have been nominated as an external subject expert for the BOS meeting by the competent authority. I feel honour to invite you as subject expert for the approval of Course Schemes and Syllabus of Mathematics in UG & PG programmes. Your experience and expertise will be of great help to the Department and University.

Due to the uncertain pandemic COVID-19 situation and advisories of State/Centre Govt. as well as UGC/MHRD, the BOS meeting will be conducting through online mode. Therefore you are requested to kindly spare your valuable time to participate in the same on 10/08/2021 (Tuesday) at 12:15 pm.

Regards

(Dr. Indu Sharma)
Dean Academics

Sant Baba Bhag Singh UNIVERSITY

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

Department of Physical Sciences

Ref. No: SBBSU/UIS/PS/2021/107 **Date: 25/8/2021**

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

As per circular wide no SBBSU/UIS/PS/2021/94 dated 05-08-2021 the meetings of the Board of Studies (BOS) in Department of Physical Sciences for discipline of Chemistry was held on 6th August, 2021 at 10:00 AM through online/offline mode (blended Mode).

Following members were present and approved the points discussed below.

S.No.	Name	Subject	Designation	Institute	Position	Signature
1	Dr. Indu Sharma	Botany	Dean Academics	SBBSU	Chairperson	
2	Dr. Vikas Sharma	Agriculture	Dean UIS	UIS	Member	
3	Dr. Narinder Singh	Chemistry	Associate Professor	Department of Chemistry, IIT Ropar, Punjab-India Email: nsingh@iitrpr.ac.in; Phone: 01881-232062	External Expert Member	Present Online
4	Dr Nisha Sharma	Chemistry	Associate Professor ,Coordinator, Physical Sciences,	UIS	Member	6/8/2021
5	Dr Nizamul Haque Ansari	Chemistry	Professor	UIS	Internal Member	Present online
6	Dr Mithu Maiti Jana	Chemistry	Associate Professor	UIS	Internal Member	6/8/2021
7	Ms Avneet Pal Kaur	Chemistry	Assistant Professor	UIS	Internal Member	6/8/21
8	Dr Vijay Dhir (Dean UIET) / His representative				Member	
9	Dr Aneet Kumar (Dean UIE & UIH) /His or Her representative				Member	
10	Dr. Seema Garg (Dean UIL, UICM), UICAIS/ His or Her representative				Member	

1. **Agenda items discussed and approved were as follow:**

   1. Discussed and approved various schemes & Syllabus of chemistry for following programmes, viz: {B.Sc NM (UG031), M.Sc (Hons.) Chemistry (PG035) for the admissions of session 2021-2022 onwards in accordance to the Choice Based Credit System(CBCS).
2. Discussed and approved Interdisciplinary Core/DSE Courses of Chemistry offered for B.Sc Medical (UG026) and B.Tech(UG017 to UG021)}.

3. Approved the Incorporation of revised vision, mission, Programme Educational Objects (PEOs), Programme Outcome (POs), Programme Specific Outcome (PSOs), & Course Outcomes (COs) in Scheme & syllabus of programmes and Courses offered by Physical Sciences.
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 (Detail is attached).
5. Discussed & Approved course codes and credits for Elective courses.
6. Approved incorporation of summer training for MSc (Hons.)Chemistry (PG035) programme and Practical training in course curriculum of B.Sc Non Medical (UG031).

7. Amendments in the course curriculum on the basis of suggestions by the experts.

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

Approved Scheme and syllabus of new course Introduced, Syllabus revised in following programmes

a) **B.Sc Non Medical (UG031)**
b) **M.Sc (Hons) Chemistry (PG035),**
c) **Interdisciplinary Core/DSE Courses of Chemistry offered for B.Sc Medical (UG026) and B.Tech(UG017 to UG021)}.**

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

S.No.	Programme Name /Code	Course Code	Course/ Subject Name	Remarks / Observations by Experts/Stakeholders/BoS members)	Action Taken
1	B.Sc Non Medical(UG031),B. Sc Medical (UG026)	CHM301	Molecules of Life	New Discipline specific Elective course has been introduced in 5th sem scheme.	Incorporated in the curriculum. Implemented w.e.f Academic session 2021 - 2022
2	B.Sc Non Medical(UG031),B. Sc Medical (UG026)	CHM303	Molecules of Life Practical	New Discipline specific Elective practical in 5th sem scheme.	
3	M.,Sc Hons. Chemistry (PG035)	CHM501	Main group Chemistry	As specialization oriented subject, new core course of Main group Chemistry (Inorganic specialization) in incorporated in 1st semester .	
4	M.,Sc Hons. Chemistry (PG035)	CHM502	Coordination Chemistry	As specialization oriented subject, new core course of Coordination Chemistry (Inorganic specilization) in incorporated in 1st semester.	

5	M.,Sc Hons. Chemistry (PG035)	CHM615	Advanced Solid state Chemistry	As specialization oriented subject. New elective course of Advanced solid state Chemistry (Physical Chemistry) has been introduced in 3rd semester	Incorporated in the curriculum. Implemented w.e.f Academic session 2021 - 2022
6	M.,Sc Hons. Chemistry (PG035)	CHM621	Analytical Chemistry	As technological advancement course. New elective course of analytical chemistry has been introduced in 3rd semester to enhace the experimental ability and employible skills	
7	M.,Sc Hons. Chemistry (PG035)	CHM623	Chemical Kinetics & Chemical Equilibrium	As specialization oriented subject. New elective course of Chemical Kinetics & Chemical Equilibrium (Physical Specilization) has been introduced in 4th semester as specialization oriented subject as well as important for UGC -NET examination	
8	M.,Sc Hons. Chemistry (PG035)	CHM622	Organic reaction & Reagents	As specialization oriented subject. New elective course of Organic reaction & Reagents (Organic Specilization) has been introduced in 4th semester as specialization oriented subject as well as important for UGC -NET examination	
9	M.,Sc Hons. Chemistry (PG035)	CHM625	Seminar & Summer Traning	To enhance the laboratory skills and provide outdoor exposure to students and better employability in industry, Credit based summer training has been incorporated along with seminar in 3rd semester	
10	B.Sc Non Medical (UG031)		Practical training	As per UGC guidelines and NEP 2021, practical training (Non credit 72 Hour) have been included in course curriculum of UG programmes (B.Sc Non Medical) to be completed in three year degree tenure to improve their technical skills and employability and competence.	

2.2.Approved the changes in the content of the following subjects:-

S.No.	Programme Name /Code	Course Code	Course/ Subject Name	Remarks / Observations by Experts/Stakeholders/BoS members	Action Taken
1	M,Sc Hons. Chemistry	CHM506	Quantum Chemistry	Some relevant content as per UGC/CSIR-NET point of view has been incorporated.	Incorporated in the curriculum. Implemented w.e.f Academic session 2021 -2022
2	M.,Sc Hons. Chemistry (PG035)	CHM605	Organometallics Chemistry and Metal Clusters	Corse code and type of course is revised. This course is converted from Core to elective course and incorporated in elective pool of 3rd semester. Introduction of some relevant content as per UGC/CSIR-NET point of view.	
3	M.,Sc Hons. Chemistry (PG035)	CHM607	Environmental Chemistry	Content in Environmental Chemistry is revised so as to improve the environmental awareness and propose some solutions through analysis of environmental pollutants.	
4	M.,Sc Hons. Chemistry (PG035)	CHM621	Symmetry & Group Theory	Corse code and type of course is revised. This course is converted from Core to elective course and incorporated in elective pool of 3rd semester. Revision is carried out in content of Symmetry and group theory and its applications. Content related to transition metals is shifted to coordination chemistry.	
5	M.,Sc Hons. Chemistry (PG035)	CHM625	Seminar & Summer Traning	To enhance the laboratory skills and provide outdoor exposure to students, summer training as a credit based course in incorporated along with seminar.	

6	**M.,Sc Hons. Chemistry (PG035)**	CHM528	Chemistry of Biological Systems	Content is rearranged in unit 2 & 3 to maintain the continuity of interrelated topics.	**Incorporated in the curriculum. Implemented w.e.f Academic session 2021-2022**
7	**M.,Sc Hons. Chemistry (PG035)**	CHM604	Bio Inorganic Chemistry	Content of Inorganic chemistry of Enzyme II is added, Minor revision in Unit II & IV.	
8	**M.,Sc Hons. Chemistry (PG035)**	CHM606	Instrumental methods of Analysis	Unit I content on data analysis is shifted to analytical Chemistry.	
9	**M.,Sc Hons. Chemistry (PG035)**	CHM507	Pericyclic Reactions & Photochemistry (Organic & Inorganic)	Content of photochemistry of inorganic complexes is shifted to CHM609 (Recent trends in Inorganic chemistry due to relevance & content repetition.	
10	**M.,Sc Hons. Chemistry (PG035)**	CHM510	Organic Chemistry Practical-II	Some new experiments on estimation and extraction of natural compounds is added	
11	**M.,Sc Hons. Chemistry (PG035)**	CHM608	Nano-Science& Nano Chemistry	As suggested by expert, Supromolecular chemistry, an emerging field of chemistry should be taught from current research point of view and incorporated as one unit in CHM608 (Nano-Science& Nano Chemistry).	
12	**B.Sc Non Medical(UG031),B. Sc Medical (UG026)**	CHM201	Solutions , Phase Equilibrium, conductance, electrochemistry and functional group organic chemistry-II	Subject content is too large and some of topic is not relevant	
13	**B.Sc Non Medical(UG031),B. Sc Medical (UG026)**	CHM203	Solutions , Phase Equilibrium, conductance, electrochemistry and functional group organic chemistry-II	Four new experiments added in Physical section as per the availability in virtual labs	
14	**B.Sc Non Medical(UG031),B. Sc Medical (UG026)**	CHM 202	Transition Metal & Coordination Chemistry, States of Matter and Chemical Kinetics	Subject name is updated from Coordination Chemistry, States of Matter and Chemical Kinetics to Transition Metal & Coordination Chemistry, States of Matter and Chemical Kinetics as per nomenclature of CBCS model for BSc Physical Sciences	
15	**B.Sc Non Medical(UG031),B. Sc Medical (UG026)**	CHM 204	Transition Metal & Coordination Chemistry, States of Matter and Chemical Kinetics Practical	Subject name is updated from Coordination Chemistry, States of Matter and Chemical Kinetics to Transition Metal & Coordination Chemistry, States of Matter and Chemical Kinetics Practical as per nomenclature of CBCS model for BSc Physical Sciences	
16	**B.Sc Non Medical(UG031),B. Sc Medical (UG026)**	CHM 307	Organometallics, Bioinorganic Chemistry, Polynuclear Hydrocarbons and UV, IR Spectroscopy (Practical)	Experiments based on UV and IR spectroscopy have been added in organic section due to relevance with theory content as well as availability in virtual lab	
17	**B.Tech(UG017 to UG021)**	CHM105	Engineering Chemistry	Revision in Syllabus has been carried out as per the request of UIET and As per model curriculum provided by AICTE for B.Tech (All branches).	

18	B.Tech(UG017 to UG021)	CHM107	Engineering Chemistry Lab	Revision in Syllabus has been carried out as per the request of UIET and As per model curriculum provided by AICTE for B.Tech (All branches).	Incorporated in the curriculum. Implemented w.e.f Academic session 2021 -2022

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

S. No.	Name of Expert	Designation/Address	Expert's suggestions	Action Taken
1	Dr. Narinder Singh	Associate Professor, Department of Chemistry, IIT Ropar, Punjab-India Email: nsingh@iitrpr.ac.in; Phone: 01881-232062	Expert has appreciated the efforts of faculty and institute for well designing of syllabus. Environmental Chemistry should be taught as Core course in MSc (Hons.) Chemistry	Duly acknowledged. There is an Ability Enhancement Core Course (AECC) of **EVS003 Natural Hazards and Disaster Management** in course curriculum of M.Sc (Hons) Chemistry. Environmental Chemistry is offered as elective course because every semester is having 4 core courses of chemistry.

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

Meeting ended with the thanks by Dean Academics.

Thanks you in anticipation

6/8/2021

Dr Mithu Maiti Jana
(Associate Professor Chemistry)

6/8/2021

Coordinator , Physical Sciences (UIS, SBBSU)

Dean of Institute (UIS, SBBSU)

Sant Baba Bhag Singh UNIVERSITY

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

Department of Physical Sciences

Ref. No: SBBSU/UIS/PS/2021/ 94 Date: 5/08/2021

MEETING CIRCULAR

It is my pleasure to inform you that you have been appointed as a member of Board of Studies (BOS) meeting of Chemistry for following courses, viz: (B.Sc NM, M.Sc (Hons.) Chemistry & (Interdisciplinary Core Courses of Chemistry) offered by Physical Sciences.

List of the BOS members is given below:

BoS meeting in Online Mode:

S.No.	Name	Subject	Designation	Institute	Position	Signature
1	Dr. Indu Sharma	Botany	Dean Academics	SBBSU	Chairperson	
2	Dr. Vikas Sharma	Botany	Dean UIS	UIS	Member	
3	Dr. Narinder Singh	Chemistry	Associate Professor	Department of Chemistry, IIT Ropar, Punjab-India Email: nsingh@iitrpr.ac.in; Phone: 01881-232062	Expert Member	Informed through email
4	Dr Nisha Sharma	Chemistry	Associate Professor ,Coordinator, Physical Sciences,	UIS	Member	5/8/2021
5	Dr Nizamul Haque Ansari	Chemistry	Professor	UIS	Internal Member	
6	Dr Mithu Maiti Jana	Chemistry	Associate Professor	UIS	Internal Member	5/8/2021
7	Ms Avneet Pal Kaur	Chemistry	Assistant Professor	UIS	Internal Member	
8	Dr Vijay Dhir (Dean UIET) / His representative				Member	
9	Dr Aneet Kumar (Dean UIE) /His or Her representative				Member	
10	Dr. Seema Garg (Dean UIL, UICM)/ Her representative				Member	

Sant Baba Bhag Singh
UNIVERSITY
Village: Khiala: PO: Padhiana, Distt: Jalandhar 144030
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You are requested to attend the meeting on 06/08/2021 (Friday) at 10:00 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. Discussion and approval of various schemes & Syllabus of chemistry for following programmes, viz: {B.Sc NM, M.Sc (Hons.) Chemistry, Interdisciplinary Core/DSE Courses of Chemistry offered for B.Sc Medical and B.Tech}.
2. Incorporation and revision of vision, mission, PO,PEO, PSO and CO into the syllabus.
3. Discussion on curriculum aspects on the basis of Feedback of stakeholders.
4. Amendments of any suggestions by the experts regarding scheme and syllabus.

Nisha Sharma 5/8/2021

DrNisha Sharma
Coordinator (Physical Sciences)

5/8/2021

Dr. Vikas Sharma
Dean UIS, SBBSU

Sant Baba Bhag Singh University

(University Established under Panjab Act No.8 of 2015)

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

External Expert Review Performa For Board of Studies

Name of External Expert	: Dr. Narinder Singh
Discipline	: Chemistry
Designation	: Associate Professor
Organization (Name & Address)	: IIT Ropar
Contact No.	: 9815250731
E-Mail ID	: nsingh@iitrpr.ac.in
Date of Visit/Meeting	: online mode on 06/08/2021

Reviewer's Comments :-

The institute has designed the entire chemistry syllabus in a diligent way and deserve appreciation.

The study time for students should not be more than 7 hours per day in order to assimilate the knowledge they have gained during their lectures, and also to give them some liberty to pursue their talents. For overall development of students is necessary, they should also engage in library and other extracurricular activities of their interest.

There should be provision of seminars every semester with external experts, so that the students may obtain good exposure. Students will learn presentation skills; they will also learn their strengths and shortcomings.

Environmental chemistry helps to develop methods and procedures to reduce the contaminants or the chemicals in the air, water and soil which ultimately improves the quality of life for all. Whereas, Supramolecular Chemistry is one of the most popular and rapidly growing areas of chemistry which emphases going "beyond" molecular chemistry or "Chemistry of molecular assemblies and of the intermolecular bond". It is the study of systems which contain more than one molecular assembly, and it aims to understand the structure, function, and properties of these assemblies. Supramolecular chemistry studies the phenomena such as molecular self-assembly, protein folding, molecular recognition, host-guest chemistry, mechanically-interlocked molecular architectures, and dynamic covalent chemistry. It is highly interdisciplinary in nature and attracts not just chemists but biologists, environmental scientists, physicists, biochemists, theoreticians, crystallographers etc. Therefore, these subjects (Environmental chemistry and Supramolecular Chemistry) should be mandatory at M.Sc. level courses for the students to learn the benefits of environmental aspects and importance of Supramolecular chemistry as an efficient tool to deal with the problems relating to the environmental degradation etc.

All the chemistry related topics specified in the UGC CSIR-NET/JRF and GATE exams should be covered and incorporated in the M.Sc. chemistry syllabus for students, so that the syllabus taught should be sufficient and students would not have to rely on coaching and other methods for getting good scores in these competitive exams.

The experience gained from the industrial training will prepare **students for future employment** and open the doors for some amazing career opportunities. It will help them to work in the real work environment and set them according to the business operation, organisational structure and work ethics. Therefore, if possible, all students must undergo industrial training or summer training in other institutes. So that students get better awareness about the current situation. They will get insights about the industrial problems and they can come up with ideas how those problems can be addressed by putting their knowledge to work. By engaging in such programs, they will get a better understanding of the current development of chemistry.

- Use extra sheet(s) if required.

Signature

(

Date.....

Coordinator/HOD's/Dean's

Dean Academics

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. SBBSU/DA/21/127 Date: 03/08/2021

To

Dr. Narinder Singh
Associate Professor
Department of Chemistry,
IIT Ropar, Punjab-India
Email: nsingh@iitrpr.ac.in;
Phone: 01881-232062

Subject: Invitation for Board of Studies Meeting in the Department of Physical Sciences, SBBSU

Dear Sir,

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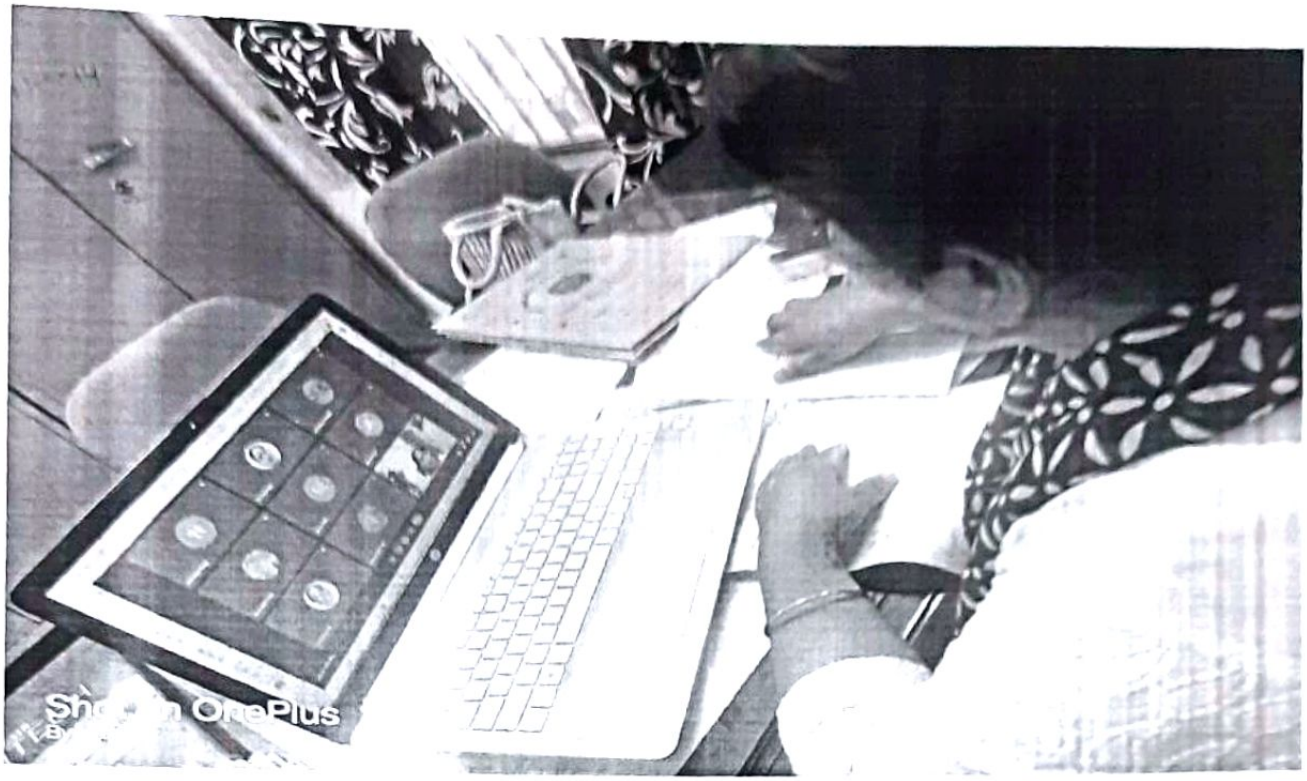
Due to the uncertain pandemic COVID-19 situation and advisories of State/Centre Govt. as well as UGC/MHRD, the BoS meeting will be conducting through online mode. Therefore you are requested to kindly spare your valuable time to participate in the same on 06/08/2021 (Friday) at 10:00 am.

Regards

03.08.2021.

(Dr. Indu Sharma)
Dean Academics
SBBS University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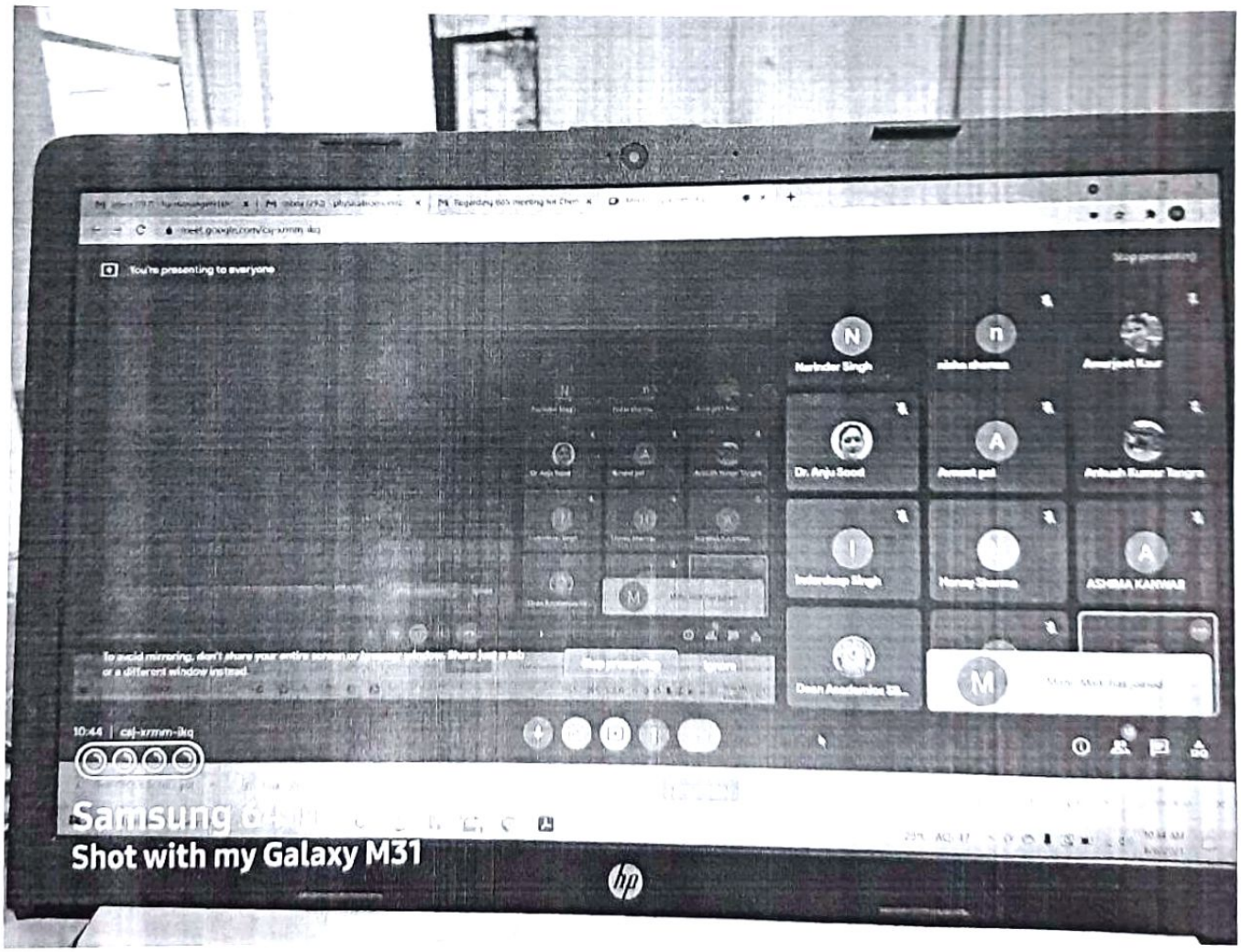
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SBBSU/VC/21/1056
dt 3/8/21

Sant Baba Bhag Singh UNIVERSITY

CoD Physical Sciences

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

Department of Physical Sciences

Ref. No: SBBSU/UISH/PS/2021/ 91 (A)

Date: 02/08/ 2021

Dr Narinder Singh, IIT, Ropar
Dr NS Saini GNDU
Dr Om Parkash
are approved.
03/8/21

To

The Vice Chancellor

SBBS University,

Jalandhar

Subject: For the approval of the expert for Board of Studies Meeting (BOS) of Physical Sciences (Chemistry)

Respected Sir,

It is submitted that Department of Physical Sciences have to conduct BOS for Chemistry Courses (B.Sc NM, M.Sc Hons. Chemistry) and interdisciplinary courses of chemistry offered by Physical Sciences on 6th August 2021 through online mode. Kindly approve the subject Expert from the following panel.

Panel of Experts for CHEMISTRY			
S No.	**Name**	**Designation**	**Affiliation (University/Institute)**
1	Dr. Narinder Singh	Associate Professor	Department of Chemistry, IIT Ropar, Punjab-India Email: nsingh@iitrpr.ac.in; Phone: 01881-232062
2	Dr Baljit Singh	Professor,	Professor, Department of Chemistry, Himachal Pradesh University, Shimla-171005 India E.Mail: baljitsinghhpu@yahoo.com
3	Dr Virender Singh	Associate Professor,	Department of Chemistry Central University of Punjab, Bhatinda, Mansa Road, Bhatinda,Punjab 151001 E.Mail: virender.singh@cup.edu.in , PH 9780998060
4	Dr Vinod Kumar	Associate Professor,	Department of Chemistry, School of Chemical Sciences, Central University of Haryana, Jant-Pali, Mahender Garh., Haryana, India 123031 E.Mail: vinodkumar@cuh.ac.in., vinodbatan@gmail.com, PH 91-8059444494

Kindly approve the Honorarium for the subject expert.

Honorarium to Subject Expert (BOS)	2000

Thanking you in anticipation

Why it is delayed
Why not conducted before Academic Council meeting

Nisha Sharma 2/8/2021

Dr Nisha Sharma

Coordinator (Physical Sciences)

University Institute of Sciences& Humanities

Recommended & forwarded to Dean Academics
02/8/21

Recommended and forwarded to Hon'ble VC sir, please study
2/08/21
(13) 02.08.2021.

→ PTO →

(PTO) →

Sant Baba Bhag Singh UNIVERSITY

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

Department of Physical Sciences

Ref. No: SBBSU/UISH/PS/2021/ 91(B) Date: 02/08/ 2021

To

The Vice Chancellor

SBBS University,

Jalandhar

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

Respected Sir,

It is submitted that Department of Physical Sciences have to conduct BOS for Physics Courses (B.Sc NM, M.Sc Hons. Physics) and interdisciplinary courses of Physics offered by Physical Sciences on 10th August 2021 through online mode. Kindly approve the subject Expert from the following panel.

Panel of Experts for Physics

S No.	Name	Designation	University/Institute
1	Dr. Nareshpal Singh Saini	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	Associate Professor,	Department of Physics, Dr B.R Ambedkar National Institute of Technology, Jalandhar, Email ID: mittalhm@nitj.ac.in; Mobile: 9417119665
3	Dr R..K Seth	Associate Professor	DAV University, Jalandhar, Email Id: rkseth@msn.com; Mobile no. 9780450373
4	Dr Gagan Bhargava	Associate Professor,	Department of Physics, Chandigarh University, Email: physics.bhargava@gmail.com, PH: 9816418069

Kindly approve the Honorarium for the subject expert.

Honorarium to Subject Expert (BOS)	2000

Nisha Sharma 2/8/2021

Dr Nisha Sharma

Coordinator (Physical Sciences)

University Institute of Sciences& Humanities

Thanking you in anticipation

Recommended & forwarded
Dean Academics
2/8/21

Recommended & forwarded to Hon'ble VC sir for kind consideration please
(139) 02.08.2021

Sant Baba Bhag Singh UNIVERSITY

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

Department of Physical Sciences

Ref. No: SBBSU/UISH/PS/2021/ 91(C) Date: 02/08/ 2021

To

The Vice Chancellor

SBBS University,

Jalandhar

Subject: For the approval of the expert for Board of Studies Meeting (BOS) of Physical Sciences (Mathematics)

Respected Sir,

It is submitted that Department of Physical Sciences have to conduct BOS for Mathematics Courses (B.Sc NM, M.Sc (Hons.) Mathematics) and interdisciplinary courses of Mathematics offered by Physical Sciences through online mode. Kindly approve the subject Expert from the following panel.

Panel of Experts for Mathematics

S No.	Name	Designation	University/Institute
1	Dr. Om Parkash	Professor	Guru Nanak Dev University, Amritsar, Punjab, India Email: omparkash777@yahoo.co.in; PH: 9814856017
2	Dr SS Dhaliwal	Professor	Department of Mathematics, SLIET, Longowal, Punjab Email id: sukhjit_d@sliet.ac.in; PH: 9815980406
3	Dr. Sanjay K Srivastava	Professor in Mathematics	Department of Mathematics, Sardar Beant Singh State University Gurdaspur-Punjab, Email Id: sks64_bcet@yahoo.co.in; Mobile no. 98559-68325
4	Dr. Gurcharan Singh	Associate Professor,	Department of Mathematics, Chandigarh University, Mohali. Email: gurcharan.maths@cumail.in, PH: 9888070274

Kindly approve the Honorarium for the subject expert.

Honorarium to Subject Expert (BOS)	2000

Nisha Sharma 2/8/2021

Dr Nisha Sharma

Coordinator (Physical Sciences)

University Institute of Sciences& Humanities

Thanking you in anticipation

Recommended & forwarded to Dean Academic

Recommended & forwarded to Hon'ble VC sir, please.

(139) 02.08.202