



Central University of Himachal Pradesh

(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)

Dharamshala, Himachal Pradesh-176215



NAAC Criterion-I

Key Indicator –1.2.1

**Approved Minutes of relevant BOS
meeting highlighting list of new courses
introduced program-wise during the last
five year**

1.2.1 Evidences



**Department of Physics and Astronomical Science
Central University of Himachal Pradesh**

Dharamshala, Kangra (H.P.)



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INDEX

Department of Physics and Astronomical Science

S. No.	DESCRIPTION	Agenda item	Page No.
1	Approved Minutes of the 13 th BOS meeting highlighting the syllabus revision dt 15/12/2022	PAS-BOS13 /13.2	5
2	Approved Minutes of the 13 th BOS meeting highlighting the syllabus revision dt 15/12/2022	PAS-BOS 13/13.5	6



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय


CENTRAL UNIVERSITY OF HIMACHAL PRADESH

Established under the Central Universities Act 2009 (No. 25 of 2009)

Department of Physics and Astronomical Science: UG/ PG Programme 2022

List of new courses introduced program-wise during the last five year period

Course Code	Name of the Course	Year of introduction
PAS8206L	Observational Skills in Astronomy	2022
PAS8208L	Scientific Writing and Presentation Skills	2022
PAS5203	Nuclear Radiation and Safety	2022
PAS5204	Electrical Circuits and Network Skills	2022


24.03.2023

HOD

Department of Physics and Astronomical Science
Central University of Himachal Pradesh
Shahpur Campus

विभागाध्यक्ष, भौतिक एवं खगोल विज्ञान विभाग
Head, Department of Physics & Astronomical Sciences
हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
अस्थायी शैक्षणिक खण्ड/Temporary Academic Block
शाहपुर, कांगड़ा (हि.प्र.)/Shahpur, Kangra (H.P.)-176205

Central University of Himachal Pradesh

Department of Physics and Astronomical Science

School of Physical and Material Sciences

Agenda of 13th Board of Studies Meeting

Date and Time: 15th December, 2022, 2:00PM.

Venue: Seminar Hall, Shahpur Parisar.

- PAS-BOS-13.1: To confirm the minutes of the 12th BOS meeting held on 24-09-2021 at Shahpur Parisar (Online Mode) (Annexure-12th BOS).
- PAS-BOS-13.2: To approve the list of courses for M. Sc. Programme under NEP2020 for the session 2021-23 (Annexure-I).
- PAS-BOS-13.3: To approve the list of courses for M. Sc. Programme under NEP2020 for the session 2022 onwards (Annexure-II).
- PAS-BOS-13.4: To approve the list of courses (Vocational/Skill/IDC/Elective Specialization) for M. Sc. Programme under NEP2020 for the session 2022 onwards (Annexure-III).
- PAS-BOS-13.5: To approve the list of courses for B. Sc. Programme under NEP2020 up to third semester (Annexure-IV).
- PAS-BOS-13.6: To approve the revised Research Degree (RD) programme course structure in concurrence with NEP2020 (Annexure-V).
- PAS-BOS-13.7: To approve the change of Ph. D. supervisor/co-supervisor and Synopsis of Ph. D. students:

S. No.	Name and Roll No	Earlier Supervisor/ Co-Supervisor	New Supervisor/ Co-Supervisor	Title
	Aditi Sharma CUHP17RDPHY01	Supervisor- Prof. OSKS Sastri Co-Supervisors- Dr. Padmnabh Rai Dr. Ambuj Tripathi	Supervisor- Prof. OSKS Sastri	Old- Indigenous design & development of Nuclear particle detector using crystal diamonds New- Physics Education Research Based Simulation Activities for Solving Quantum Mechanical Problems
	Shivani Kalia CUHP15RDPHY03	Supervisor- Dr. Rajesh Kumar Singh, Co-Supervisor- Dr. Rajnish Dhiman	No change	Old- Light Detection by Graphene and Carbon Nanotube Field Effect Transistors New- Two-dimensional nanomaterial composites with metal/metal oxide nanoparticles for integrated applications

Annexure I. Course structure for the 2021-23 Batch

M. Sc. Physics

I-Semester

S. No.	Name of the Course	Course Code	Course Type	Course Credit
1	Classical Mechanics	PAS8101	Major	4
2	Classical Electrodynamics	PAS8102	Major	4
3	IDC		Major	2
4	Quantum Mechanics	PAS8104	Minor	4
5	General Physics Lab Skills	PAS8105L	V/S	2
6	Python Programming in Astrophysical Science	PAS8106L	V/S	2
7	Indian Knowledge System	PAS8107	IKS	2
Total				20

IDC Courses offered by the Department

1	Mathematical Physics	PAS8103	IDC Major	2
2	Waves and Optics	PAS8111	IDC Major	2

II-Semester

1	Statistical Mechanics	PAS8201	Major	4
2	Advanced Quantum Mechanics	PAS8202	Major	4
3	Condensed Matter Physics	PAS8203	Major	4
4	Astronomy and Astrophysics	PAS8204	Minor	2
5	Observational Skills in Astronomy	PAS8206L	V/S	2
6	Bhartiya Astronomy and Kal Ganana	PAS8207	IKS	2
7	IDC		Minor	2
* Total				20

IDC Courses offered by the Department

1	Scientific Writing and Presentation Skills	PAS8208L	IDC Minor	2
2	Nanomaterials	PAS8209	IDC Minor	2

III-Semester

1	Nuclear and Particle Physics	PAS9101	Major	4
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Annexure-IV, Course structure for the 2021-25 Batch

B. Sc. (Honours) Physics

I-Semester

S. No.	Name of the Course	CourseCode	Course Type	Course Credit
1	Mechanics	PAS5101	Major	4
2	Mathematical Physics-I	PAS5102	Major	4
3	Organic Stereochemistry and Spectroscopy	CCS5101	IDC Minor	4
4	Lab Skills in Chemical Sciences-I	CCS5101L	Lab/Field	2
5	Mechanics Lab Skills	PAS5105L	V/S	2
6	Indian Knowledge System	PAS5106	IKS	4
Total				20

IDC Courses offered by the Department

1	Nanomaterials	PAS5111	IDC Minor	2
2	Heat and Thermodynamics	PAS5112	IDC Minor	2

II-Semester

1	Electricity and Magnetism	PAS5201	Major	4
2	Mathematical Physics-II	PAS5202	Major	4
3	Electrochemistry	CCS5201	IDC Minor	4
4	Lab Skills in Chemical Sciences-II	CCS5201L	Lab	2
5	Nuclear Radiation and Safety	PAS5203	V/S	2
6	Electrical Circuits and Network Skills	PAS5204	V/S	2
7	Sanskrit Sambhashna	SKT201	Indian Language	2
Total				20

IDC Courses offered by the Department

1	Waves and Optics	PAS5113	IDC Minor	2
2	Heat and Thermodynamics	PAS5112	IDC Minor	2

III-Semester

1	Thermal and Statistical Physics	PAS6101	Major	4
2	Solid State Physics	PAS6102	Major	4
3	Linear Algebra and Tensors	MTH351	IDC Minor	4

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