

Central University of Himachal Pradesh
(Accredited by NAAC with A+ Grade with CGPA of 3.42)
रसायन एवं रसायनिक विज्ञान विभाग)
शाहपुर परिसर, शाहपुर, जिला - काँगड़ा, हिमाचल प्रदेश - 176206

आजादी का
अमृत महोत्सव

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Seventh Board of Studies Meeting on 23rd September, 2023

Department of Chemistry and Chemical Sciences

School of Physical and Material Sciences

AGENDA OF BOARD OF STUDIES

Agenda for the Seventh Meeting of Board of Studies (BoS) of the Department of Chemistry and Chemical Sciences, SoPMS to be held on 23rd September, 2023 at Central University of Himachal Pradesh, Shahpur Parisar.

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हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय
Central University of Himachal Pradesh
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अमृत महोत्सव

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Agenda for the Seventh Meeting of Board of Studies(BoS) of the Department of Chemistry and Chemical Sciences, SoPMS to be held 23rd September, 2023 at Central University of Himachal Pradesh, Shahpur Parisar Shahpur.

The Seventh Meeting of the BoS of the Department of Chemistry and Chemical Sciences has been fixed on 23rd, September 2023 at 11.00 a.m. The Agenda Items for the proposed meeting have been given below.

- Welcome of All the members by Chairman
- **Introduction of Members**

7th BOS Agenda

Agenda No. CCS-BOS-7/23-1: Confirmation of Minutes of 6th BOS meeting of Department of Chemistry and Chemical Sciences held on 26th December 2022. The Minutes of the 6th BOS meeting held on 26th December 2022 is given in **Annexure I**.

Agenda No. CCS-BOS-7/23-2: Approval of Minutes of 1st RDC of Department of Chemistry and Chemical Sciences held on 6th June 2023 is given in **Annexure II**.

Agenda No. CCS-BOS-7/23-3: Approval and/or Modification of Syllabus of M.Sc. 4th Semester Course name: Subject Based Data Analysis and Interpretation (CCS 626) is given in **Annexure III**.

Agenda No. CCS-BOS-7/23-4: Change of Course code of M.Sc. 1st Sem. CCS 527 as CCS 526 with course name 'Natural Products and Medicinal Chemistry' which was incorrectly included in the 5th BOS due to typographical error is given in **Annexure IV**.

Agenda No. CCS-BOS-7/23-5: Change in Course Name of M.Sc. II Sem. IKS 2 (CCS 527) as History of Chemistry which was incorrectly included in the 5th BOS is given in **Annexure V**.



हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय
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शाहपुर परिसर, शाहपुर, जिला - काँगडा, हिमाचल प्रदेश - 176206



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Agenda No. CCS-BOS-7/23-6: Updated list of External Examiners is given in Annexure VI.

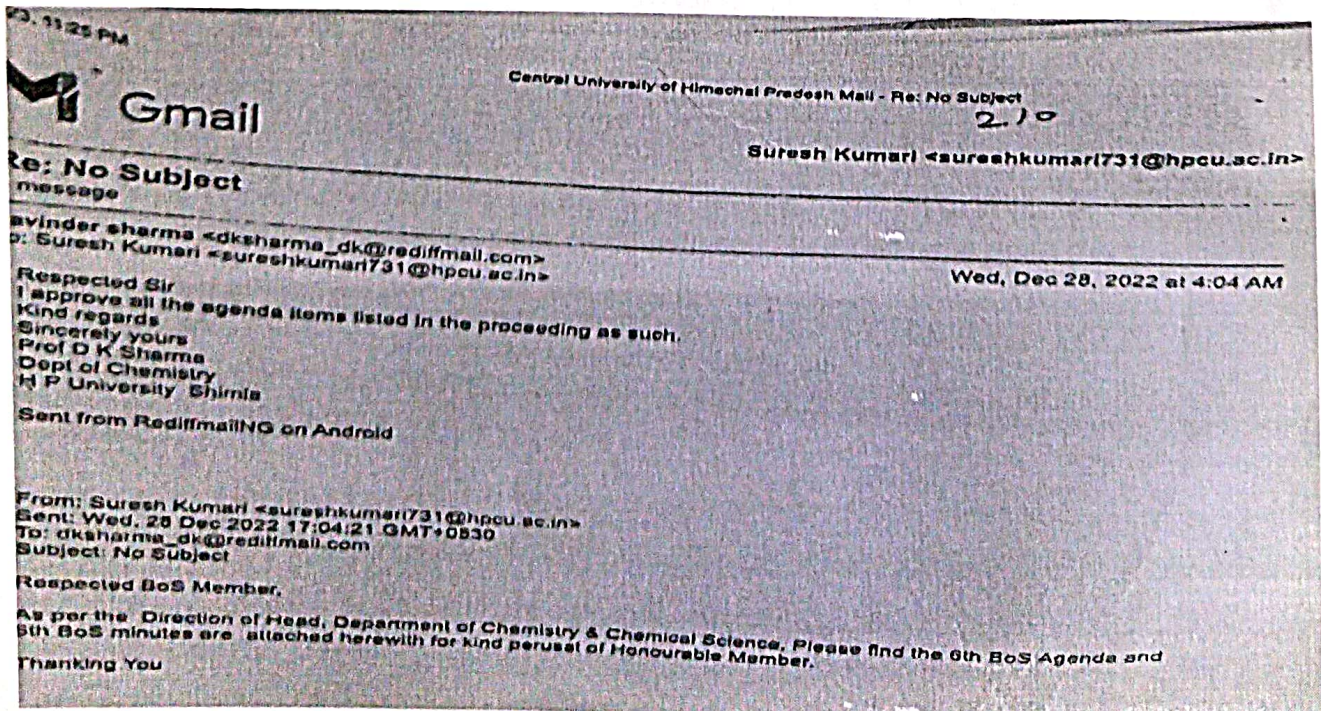
Agenda No. CCS-BOS-7/23-7: It is for the information of BOS that one of the PhD student of Dr Rajender Kumar at his Previous Institute (Department of Chemistry, Saradar Vallabh bhai National Institute of Technology Surat, Gujarat) has been awarded PhD on dated 06/04/2023, after successful defence of Viva Voce. Dr. Rajender Kumar was acting her Co-Supervisor after leaving his previous institute. The detail is given in Annexure VII.

Agenda No. CCS-BOS-7/23-8: Approval and/or Modification of Syllabus of Review of Literature/ Research Proposal, CCS 616 (M.Sc. 3rd Semester, Credit 4) is given in Annexure VIII.

Agenda No. CCS-BOS-7/23-9 : Change in credits of Review of Literature/ Research Proposal (Lab) CCS 617 (M.Sc. 3rd Semester) as 4 from 6, given in Annexure IX.

Agenda No. No. CCS-BOS-7/23-10 : Item from Chair

Annexure I



11:25 PM

Central University of Himachal Pradesh Mail - Re: No Subject

Annexure-I



Suresh Kumari <sureshkumari731@hpcu.ac.in>

Re: No Subject

1 message

Wed, Dec 28, 2022 at 4:04 AM

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davinder sharma <dksharma_dk@rediffmail.com>
To: Suresh Kumari <sureshkumari731@hpcu.ac.in>

Respected Sir
I approve all the agenda items listed in the proceeding as such.
Kind regards
Sincerely yours
Prof D K Sharma
Dept of Chemistry
H P University Shimla

Sent from RediffmailNG on Android

From: Suresh Kumari <sureshkumari731@hpcu.ac.in>
Sent: Wed, 28 Dec 2022 17:04:21 GMT+0530
To: dksharma_dk@rediffmail.com
Subject: No Subject

Respected BoS Member,

As per the Direction of Head, Department of Chemistry & Chemical Science, Please find the 6th BoS Agenda and 6th BoS minutes are attached herewith for kind perusal of Honourable Member.

Kind regards
Thanking You
Prof D K Sharma
Dept of Chemistry
H P University Shimla

Sent from RediffmailNG on Android

From: Suresh Kumari <sureshkumari731@hpcu.ac.in>
Sent: Wed, 28 Dec 2022 17:04:21 GMT+0530
To: dksharma_dk@rediffmail.com
Subject: No Subject

Respected BoS Member,

As per the Direction of Head, Department of Chemistry & Chemical Science, Please find the 6th BoS Agenda and 6th BoS minutes are attached herewith for kind perusal of Honourable Member.

Thanking You

Minutes of the Sixth Board of Studies Meeting
Held on 26th December, 2022 from 11:00 A.M. onwards
Department of Chemistry and Chemical Science, School of
Physical and Material Sciences

Minutes of the Sixth Board of Studies Meeting
Held on 26th December, 2022
Department of Chemistry and Chemical Science
School of Physical and Material Sciences

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The Sixth Board of Studies (BOS) Meeting of the Department of Chemistry and Chemical Science, SOPMS was held on 26th December, 2022 at Shalipur campus of Central University of Himachal Pradesh.

Professor Devender Kumar Sharma, Professor Department of Chemistry, H.P University Shimla, Professor Him Chand, Dean SOPMS, Professor Bhag Chand Chauhan, Professor Department of Physics and Astronomical Science, CUHP, Dr. Sunil Thakur, Professor and Head, Department of Animal Sciences, School of Life Sciences, CUHP, Dr. Rajender Kumar, Associate Professor, Department of Chemistry and Chemical Science, CUHP, Dr. Neeraj Gupta, Assistant Professor, Department of Chemistry and Chemical Science, CUHP and Dr. Vivek Sheel, Associate Professor and Head, Department of Chemistry and Chemical Science, CUHP were present in the Meeting.

Professor Shashi Kant Sharma expressed his inability to attend the meeting due to personal reason.

The Chairman started the meeting with introduction of Honourable Members of BOS and Following Business was transacted.

Agenda Item No. CCS-BOS-6/22-1: Confirmation of Minutes of 5th BOS meeting held on 23rd September 2021. The Minutes of the 5th BOS meeting held on 23rd September 2021 is given in Annexure I.

Resolution No. 1 : The Minutes of 5th BOS meeting held on 23rd September, 2021 is given in Annexure I and are approved.

Agenda Item No. CCS-BOS-6/22-2: Renu Bala (14-ECM-855) PhD Student of Dr. Vivek Sheel, who was enrolled in his previous institute, Maharishi Markandeshwar (Deemed to be University) Mullana-Ambala has been awarded PhD degree in Chemistry. This information may be recorded in the department. The details of the award of degree of PhD in Chemistry are given in Annexure-II.

Resolution No. 2: Honourable Members approved that Renu Bala (14-ECM-855) PhD Student of Dr. Vivek Sheel, who was enrolled in his previous institute, Maharishi Markandeshwar (Deemed to be University) Mullana-Ambala has been eligible for the award of degree of PhD in Chemistry.

Agenda Item No. CCS-BOS-6/22-3: Modification and/or finalizing the course content of CCS 615: "SOFTWARE BASED DATA ANALYSIS" for M.Sc. 3rd Semester. The Syllabus of CCS 615: SOFTWARE BASED DATA ANALYSIS third Semester will be research related and will be assigned

Handwritten signatures and initials: *Sharma*, *Chand*, *Thakur*, *Chauhan*, *Gupta*, *Sheel*

on the basis of need of research project etc. Software training will be as per use and need of software will be related to Chemistry and Chemical Science. The syllabus detail is given in Annexure-III.

Resolution No. 3 : Honourable Members approved the modification and/or finalizing the course content of CCS 615 "SOFTWARE BASED DATA ANALYSIS" for M.Sc. 3rd Semester. The Syllabus of CCS 615; SOFTWARE BASED DATA ANALYSIS third Semester will be research related and will be assigned on the basis of need of research project etc. Software training will be as per use and need of software will be related to Chemistry and Chemical Science.

Agenda Item No. CCS-BOS-6/22-4: Splitting of course CCS 616 (8 Credits) for M.Sc. 3rd Semester into two courses as CCS 616; REVIEW OF LITERATURE / RESEARCH PROPOSAL (2 Credits) and CCS 617; REVIEW OF LITERATURE / RESEARCH PROPOSAL (LAB) (6 Credits) & approval of the syllabus of course CCS 616. The syllabus detail is given in Annexure-IV.

Resolution No. 4 : Splitting of course CCS 616 (8 Credits) for M.Sc. 3rd Semester into two courses as CCS 616; REVIEW OF LITERATURE / RESEARCH PROPOSAL (2 Credits) and CCS 617; REVIEW OF LITERATURE / RESEARCH PROPOSAL (LAB) (6 Credits) & syllabus of course CCS 616 are approved by Honourable Members.

Agenda Item No. CCS-BOS-6/22-5: Incorporation & Distribution of Marks of new course code CCS 617; REVIEW OF LITERATURE / RESEARCH PROPOSAL (LAB) for M.Sc. 3rd Semester. Distribution of marks for the course CCS 617 Lab (Credits 6) is given below:

Mid Term Assessment (Presentation)	Internal Assessment	End Term Assessment (Presentation)	Total
60 Marks	60 Marks	180 Marks	300Marks

Note: The End term examination of 180 marks will be awarded on the basis of the evaluation of report on research proposal including the literature review. Both the components will have 60 marks each (60+60=120 marks) and the rest of 60 marks will be awarded after the final presentation.

Resolution No. 5 : Incorporation & Distribution of Marks of new course code CCS 617; REVIEW OF LITERATURE / RESEARCH PROPOSAL (LAB) for M.Sc. 3rd Semester are approved by Honourable Members.

Agenda Item No. CCS-BOS-6/22-6: Distribution of Marks of course CCS 627 (Credits 8) for M.Sc. 4th semester is given below:

Presentation	Viva	Dissertation	Total
50	100	250	400Marks

Resolution No. 6 : Distribution of Marks of course CCS 627 (Credits 8) for M.Sc. 4th semester are approved by Honourable Members.

Agenda Item No. CCS-BOS-6/22-7: Approval of the proposal for initiating the 6 Months Certificate Course in "BIOMATERIAL CHEMISTRY" by Department of Chemistry and Chemical Science. It is proposed to introduce Certificate Course by adopting NEP guidelines. The List of courses offered for the certificate course for session 2022-23 is given below:

3 | of 5

Handwritten signatures and notes at the bottom of the page, including a signature that appears to be "Bachan" and another that appears to be "Vishal".

Sr. No.	Course Code	Course Name	Course Type	Credit
1.	CCSS01	Polymer and Coating Technology	Value added course	04
2.	CCS 802	Biomaterials	Value added Course	04
3.	CCSS03	Biomaterial Characterization Techniques	Value Added Course	04
4.	CCS 804	Organic Reactions for Synthesizing Biomaterials Lab	Value Added Course	02
5.	CCS 805	Biomaterials Lab	Value Added Course	02
6.	CCS 806	Bio Physical Chemistry Lab	Value Added course	02
7.	CCS 807	UV-visible Study of Biopolymers Lab	Value added Course	02

The syllabus is given in Annexure-V.

Resolution No. 7 : Honourable Members approved the proposal for initiating the 6 Months Certificate Course in "BIOMATERIAL CHEMISTRY" by Department of Chemistry and Chemical Science. It is proposed to introduce Certificate Course by adopting NEP guidelines.

Agenda Item No. CCS-BOS-6/22-8: Item from Chair. List of External Examiners.

Resolution No. 8 : The List of External Examiners approved by Honourable Members.

Sr. No.	Course Code	Course Name	Course Type	Credit
1.	CCSS01	Polymer and Coating Technology	Value added course	04
2.	CCS 802	Biomaterials	Value added Course	04
3.	CCSS03	Biomaterial Characterization Techniques	Value Added Course	04
4.	CCS 804	Organic Reactions for Synthesizing Biomaterials Lab	Value Added Course	02
5.	CCS 805	Biomaterials Lab	Value Added Course	02
6.	CCS 806	Bio Physical Chemistry Lab	Value Added course	02
7.	CCS 807	UV-visible Study of Biopolymers Lab	Value added Course	02

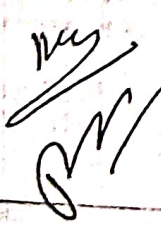
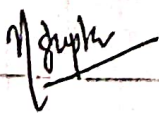
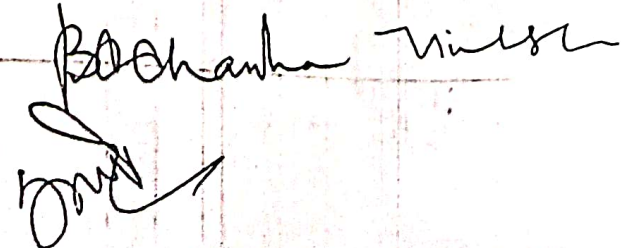
The syllabus is given in Annexure-V.

Resolution No. 7 : Honourable Members approved the proposal for initiating the 6 Months Certificate Course in "BIOMATERIAL CHEMISTRY" by Department of Chemistry and Chemical Science. It is proposed to introduce Certificate Course by adopting NEP guidelines.

Agenda Item No. CCS-BOS-6/22-8: Item from Chair.

List of External Examiners approved by Honourable Members.


[Handwritten signatures and initials]






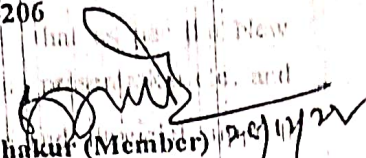
In the end Professor Devender Kumar Sharma, External Member suggested that as per the New Curriculum scheme which requires publication of Research Papers/Conference presentation etc. and research dissertation in 4th Semester will require tremendous infrastructure and financial support. Hence University may be requested to allocate grants for development of Infrastructure like Scientific equipment's, Software's, Computer systems, etc. so that required research environment could be created. All members appreciated this and approved to convey to university for necessary action.

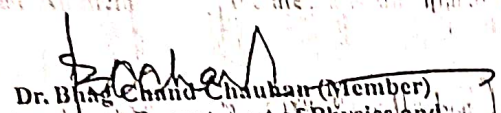
approved by email (attached)

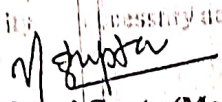
Dr. Devender Kumar Sharma (Member)
Professor (Retd.), Department of Chemistry
Himachal Pradesh University Shimla-05


Dr. Rajender Kumar (Member)
Associate Professor, Department of
Chemistry and Chemical Science
CUHP-176206


Dr. Him Chand (Member)
Dean SOPMS & Professor
Department of Physics and
Astronomical Science, CUHP-176206


Dr. Sunil Thakur (Member)
Professor & Head, Department
of Animal Sciences, CUHP-176206

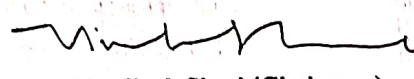

Dr. Bhag Chand Chauhan (Member)
Professor, Department of Physics and
Astronomical Science, SOPMS, CUHP-
176206


Dr. Neeta Gupta (Member)
Assistant Professor, Department of
Chemistry and Chemical Science
CUHP-176206

Dr. Devender Kumar Sharma (Member)
Professor (Retd.)
Department of Chemistry
Himachal Pradesh University Shimla-05

Dr. Rajender Kumar (Member)
Associate Professor, Department of
Chemistry and Chemical Science
CUHP-176206

Dr. Him Chand (Member)
Dean SOPMS
Department of Physics and
Astronomical Science


Dr. Vivek Sheel (Chairman)
Department of Chemistry and Chemical Science
CUHP-176206

Dr. Sunil Thakur (Member)
Professor & Head, Department of
Animal Sciences, CUHP-176206

Dr. Bhag Chand Chauhan (Member)
Professor, Department of Physics and
Astronomical Science, SOPMS,
CUHP-176206

Dr. Neeta Gupta (Member)
Assistant Professor, Department of
Chemistry and Chemical Science,
CUHP-176206

Dr. Vivek Sheel (Chairman)
Department of Chemistry and Chemical Science
CUHP-176206

9:07 PM

Suresh Kumari <sureshkuman731@hpcu.ac.in>
To: Ranjana Aggarwal <ranjanaaggarwal67@gmail.com>
Vivek Sheel <chemsheel@gmail.com>, chemsheel@hpcu.ac.in

Sat Jun 17, 2023 at 4:20 AM

Respected Madam,

As per the direction of Head, Department of Chemistry & Chemical Science, Please find the attached RDC Minutes of Meeting
(Quoted text hidden)

📎 Minutes of RDC Meeting 17-Jun-2023 16-11-42.pdf
12642K

Ranjana Aggarwal <ranjanaaggarwal67@gmail.com>
To: Suresh Kuman <sureshkuman731@hpcu.ac.in>

Mon, Jun 19, 2023 at 3:36 AM

Thanks for your email
I have gone through the minutes which are well drafted.
I hereby give my approval to the minutes
Warm wishes
Ranjana
(Quoted text hidden)

रजना अग्रवाल

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संदेश

सीएसआईआर-राष्ट्रीय विज्ञान संचार एवं नीति अनुसंधान संस्थान

(सीएसआईआर, निष्पत्ति)

पूसा गेट, के. एस. कृष्णन मार्ग

नई दिल्ली-110 012

प्रोफेसर रजना अग्रवाल (परिनिवृत्ति पर)

रजना अग्रवाल विभाग

तथा

पूर्व निदेशक

महिला अध्ययन अनुसंधान केंद्र

कुरुक्षेत्र विश्वविद्यालय

कुरुक्षेत्र-136 119

भारत

Prof. Ranjana Aggarwal

Director

CSIR-National Institute of Science Communication and Policy Research (CSIR-NISCP/R)

Pusa Gate, K.S. Krishnan Marg

New Delhi, India

Professor of Chemistry (On deputation)

Chemistry Department

&

Former Director, Women's Studies Research Center

Kurukshetra University

Kurukshetra 136 119

India

13
237



Suresh Kumari <sureshkumari731@hpcu.ac.in>

Minutes of RDC meeting and approval thereof

1 message
neeraj sharma <neerajsharma_univ@yahoo.co.in>
Reply-To: neeraj sharma <neerajsharma_univ@yahoo.co.in>
To: sureshkumari731@hpcu.ac.in
Cc: Vivek Sheel <chemsheel@gmail.com>, chemsheel@hpcu.ac.in

Mon, Jun 25, 2023 at 8:05 PM

Dear Sir/Madam
Greetings of the day
I have gone through the minutes of RDC meeting held on 6.6.2023. I approve of these with the observation that the minutes of RDC meeting held on 8.2.2023 were partially approved.

Thanks
Prof. (Mrs) Neeraj Sharma (Retd.)
Dept. of Chemistry
H. P. University Shimla-5

Sent from Yahoo Mail on Android

On Sat, 17 Jun 2023 at 4:53 PM, Suresh Kumari <sureshkumari731@hpcu.ac.in> wrote:

Respected Madam,
As per the direction of Head, Department of Chemistry & Chemical Science, Please find the attached RDC Minutes of Meeting.

Thanking You

**Minutes of the Meeting of First Research Degree
Committee (RDC) of Department of Chemistry and
Chemical Science**

Held on 6th June, 2023 from 10:00 A.M. onwards at

**Department of Chemistry and
Chemical Science (DCCS)**

**School of Physical and Material
Sciences (SoPMS)**

Central University of Himachal Pradesh (CUHP)

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The First Research Degree Committee (RDC) Meeting of the Department of Chemistry and Chemical Science, SoPMS was held on 6th June, 2023 at Shahpur Campus of Central University of Himachal Pradesh.

Following members attended the meeting physically:

1. Professor Hum Chand, Dean SoPMS.
2. Professor Ranjana Aggarwal, Director, (USIR-NIScPR) Delhi.
3. Dr. Vivek Sheel, Associate Professor and Head, DCCS, CUHP
4. Dr. Rajender Kumar, Associate Professor, DCCS, CUHP.
5. Dr. Neeraj Gupta, Assistant Professor, DCCS, CUHP,
6. Dr. Munish Kumar, Assistant Professor, DCCS, CUHP.
7. Dr. Shiwani Berry, Assistant Professor, DCCS, CUHP.
8. Dr. Pramod Kumar, Assistant Professor, DCCS, CUHP were present in the meeting.

Professor Neeraj Sharma, Department of Chemistry, H.P. University Shimla, participated in the meeting by online mode. Professor S. K. Mehta, Vice-Chancellor, University of Ladakh expressed his inability to attend the meeting due to prior commitments.

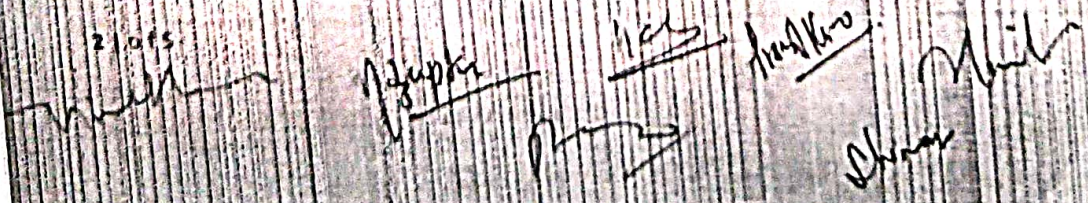
The Chairman started the meeting with introduction of Honorable Members of RDC. Following Business was transacted:

1. Agenda No. CCS-RDC-1/23-1: To approve the minutes of Departmental Research Committee (DRC) held on 20-09-2022 and 08-02-2023 as given in Annexure I.

Resolution No. 1: Honorable members approved the minutes of DRC meeting held on 20-09-2022 and 08-02-2023 as given in Annexure I.

2. Agenda No. CCS-RDC-1/23-2: Approval of Research Supervisor of the PhD students admitted in Department of Chemistry and Chemical Science. The List of PhD students along with allotted Research Supervisors, as approved in Departmental Standing Committee (DSC) in its meetings held on 03-01-2022 and 08-02-2023 is given in Annexure-II.

Resolution No. 2: Honorable Members approved the Research Supervisor of the PhD students admitted in Department of Chemistry and Chemical Science, as given in Annexure-II.

21/06/23


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1. Agenda No. CCS-RDC-1/23-3: Approval of Title of Research of PhD students in Department of Chemistry and Chemical Sciences, as approved in DRC meeting held on 08-02-2023. List of PhD students along with their Research Title is given in Annexure-III.

Resolution No. 3: Honorable Members suggested the change in Research Title of two PhD students, Mrs. Kirma Devi and Ms. Nancy Jaswal. Accordingly titles have been changed. The modified Titles are given below:

1. Mrs. Kirma Devi, Title: Biodegradable Nanocarriers for Enantioselective Release of Chiral Pesticides to the Plants.
2. Ms. Nancy Jaswal, Title: Design Synthesis and Characterization of Hybrid Nanomaterials for Biomedical Applications.

With change in Title of two students Honorable RDC Members approved the Agenda No. CCS RDC-1/23-3. The rest of Titles remain same as approved by DRC meeting held on 08-02-2023 (Annexure III).

4. Agenda No. CCS-RDC-1/23-4: Approval of PhD Co-supervision of student of Dr. Manish Kumar, Assistant Professor in Department of Chemistry and Chemical Science, CUHP by Dr. Amit Kumar, Shoolini University Solan, H.P. as recommended by DSC in its meeting held on 08-02-2023. Detail of PhD student and Faculty involved in Co-supervision as approved by DSC are given in Annexure-IV.

Resolution No. 4: The Honorable Members suggested that Dr. Manish Kumar will provide detailed justification for appointing Dr. Amit Kumar, Shoolini University, Solan as Co-supervisor. The proposal is deferred for next RDC Meeting.

5. Agenda No. CCS-RDC-1/23-5: Part time PhD case of Ms. Purnima Justa (CUHP20RDCHEM05), who is pursuing PhD under the supervision of Dr. Pramod Kumar, Ms. Purnima Justa has joined in the Department of Chemistry and Chemical Science as PhD student

31/01/23

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in the year 2020. After completion of her course work she got appointed as Trained Graduate Teacher (TGT) in Government of Himachal Pradesh. She represented her case to convert her PhD in to part time. The case was submitted in detail to competent authority. The detail of the case is given in Annexure V.


Resolution No. 5. Ms. Purnima Justa joined the department on 5th October, 2020 under the supervision of Dr. Pramod Kumar, Assistant Professor, Department of Chemistry and Chemical Science. She completed her coursework in the first six months and after that, she started her research work. Then she joined as TGT (Medical) in Government of Himachal Pradesh on 2nd March 2022. She raised a request to the competent authority of CUHP through the Head of the Department to give her the relaxation in the residency period and convert her Ph.D. into part-time and allow her to continue with the Ph.D. degree. The Hon'ble Vice Chancellor of the Central University of Himachal Pradesh approved her request but in accordance with rules and regulations of the CUHP. The Honorable Members in consultation with Dr. Pramod Kumar (Supervisor) decided to defer the case to next RDC meeting for wider discussions in the matter.

The meeting ended with vote of Thanks by Chairman, RDC.


Professor Him Chand (Chairman)
Dean SoPMS

Professor Ranjana Aggarwal (Member)
Director, (CSIR-NIScPR) Delhi

Professor Neeraj Sharma (Member)
Department of Chemistry
H.P. University Shimla


Dr. Vivek Sheel (Member)
Associate Professor
DCCS, CUHP

4/10/15

Dr. Rajender Kumar (Member)
Associate Professor
DCCS, CUHP

Dr. Neera Gupta (Member)
Assistance Professor
DCCS, CUHP

Dr. Manish Kumar (Member)
Assistance Professor
DCCS, CUHP

Dr. Shiwani Berry (Member)
Assistance Professor
DCCS, CUHP

Dr. Farhad Kumar (Member)
Assistance Professor
DCCS, CUHP

Annexure-III

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Programme of Study: M.Sc. Chemistry
Course Name: Subject Based Data Analysis and Interpretation
Credit 4

Semester: IV

Course code: CCS 626

Unit I: XPS

XPS basic principle, instrumentation, data plotting, spectral Analysis, Installation and use of software, data Interpretation using casa XPS software and origin, Calculation of Atomic Percentage, Deconvolution of peaks, identification of peaks in survey scan.

Unit II: TEM

Basic principle, Image Analysis, EDX data calculation, data analysis and Interpretation, size calculation by J Image, lattice calculation.

Unit III: XRD

Basic principle, instrumentation, interpreting crystallinity Data interpretation, size calculation, peaks interpretation, Miller indices calculation.

Unit IV: AFM

Basic principle of AFM, different modes of imaging surface topography, parameters of AFM installation of Gwyddion software, 2D image analysis and 3D analysis, Roughness Calculation (Rq & RMS), height distribution.

Vocational/ Skills

CCS 527: Natural Products and Medicinal Chemistry

Credit-2

UNIT I: Drug Design and Medicinal Chemistry

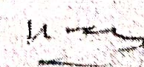

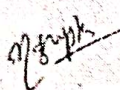
Introduction: Drugs: Drug design, Classification of drugs, brief discussion of drug targets, Drugs based on enzyme inhibition: penicillin antibiotics and sulphonamides (Mechanism of drug action). Drug targets on nucleic acids (Alkylating agents and intercalating agents). Concepts of antagonist, agonist, prodrugs, pharmacokinetics and pharmacodynamics, concept of structure-activity relationship (SAR) with special reference to penicillin antibiotic and sulphonamides. Antineoplastic Agents (Cancer chemotherapy), Cardiovascular drugs.

UNIT II: Alkaloids:

General definition, isolation and classification of alkaloids. Biogenesis of alkaloids. General methods for structure elucidation, Structure Elucidation and general features of phenylethylamine, pyrrolidine, pyridine, indole, isoquinoline type alkaloids. Structure elucidation (by chemical and spectroscopical methods) of atropine, nicotine, coniine and papaverine.

UNIT III: Terpenoids

Classification and biosynthesis, isolation of terpenoids, Introduction to Isoprene rule, general methods for structure elucidation, structure elucidation (by chemical and spectroscopical methods) of acyclic, monocyclic and bicyclic monoterpenes (examples Citral, terpeniol, alpha-pinene). General introduction to sesqui-, di-, and tri-terpenes with a case study of camphor.



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	<p>3. CCS 513 Physical chemistry I (2 credit)</p> <p>4. CCS 514 Advance Analytical Techniques (2 credits)</p> <p>5. Practical I (CCS 515) (2 credits)</p> <p>Total credits: 10</p>	Total credits: 4	Total credits: 4	Total credits: 4
2 nd	<p>1. CCS 521 Inorganic chemistry II (4 credits)</p> <p>2. CCS 522 Organic Chemistry II (4 credit)</p> <p>3. CCS 523 Physical chemistry II (4 credit)</p> <p>Total credit: 12</p>	<p>1. CCS 524 Biochemistry (2 credit)</p> <p>2. CCS 525 Practical II (2 credit)</p> <p>Total credits: 4</p>	<p>1. CCS 526 Natural Products Medicinal chemistry (2 credits)</p> <p>Total credits: 4</p>	<p>IKS (2)</p> <p>CCS 527</p>
3 rd	<p>CCS 611 (Inorganic chemistry Specialization - I)</p> <p>CCS 612 (Organic chemistry Specialization -I)</p> <p>CCS 613 (Physical chemistry Specialization I)</p> <p>Elective Specialization</p>	<p>CCS 614 Research Methodology (Credit 4) (Credit 4)</p> <p>Total credit: 4</p>	<p>CCS 615 Software based data Analysis (Credit 4)</p> <p>Total credit: 4</p>	<p>CCS 616 Review of Literature/ Research Proposal (Credit 8)</p> <p>Total credit: 8</p>

Handwritten signatures and initials:
 1. *M. S. ...*
 2. *...*
 3. *...*

List of External Experts

Names of the External Experts with address (Email id, Mobile no.)

- Dr. Pankaj Thakur, Special centre for Nanoscience, JNU, New Delhi, 110067, Ph. No: 9816266489,
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- Dr. Vikas Bharti, Department of Chemistry, Hydro engineering college, Bandla, Bilaspur, Ph. No: 8219548067, Email: vikas818@gmail.com
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Ph.No: 9418144849, Email: samar23chem@gmail.com
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- Dr Kalpana Chauhan (Organic Chemistry), Professor, School of Engineering and Technology, Department
of Chemistry, Central University of Haryana, Email ID: kalpanachauhan@cuh.ac.in, Contact
No.: 8627804688
- Rakesh kumar (Organic Chemistry and Green Chemistry), Assistant Professor, Chemistry Department,

University of Punjab, Phone: 8054507941, Email: rakesh.kumar@cup.edu.in

Prof. R. K. Sharma, Professor, Physical Chemistry, Department of Chemistry, Delhi University.
E-mail: sharmark101@yahoo.com, Ph: 9310050453

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Dr. Jagram Meena, Assistant Professor, Physical Chemistry, Department of Chemistry, Gurukula Kangri University, Haridwar, Uttarakhand (India), Email: jagram.meena@gkv.ac.in, Ph : 9555881703

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Dr Abhimanew Dhir, Assistant Professor, School of Chemical Sciences. IIT Mandi, Email : abhimanew@iitmandi.ac.in Ph : 8988368566

Dr Ramesh Thakur, Professor, Department of Chemistry, HPU Shimla, Email: drthakurchem@gmail.com, Ph: 9876071296



સરદાર વલ્લભભાઈ રાષ્ટ્રીય પ્રૌદ્યોગિકી સંસ્થા, સુરત
 सरदार वल्लभभाई राष्ट्रीय प्रौद्योगिकी संस्था, सुरत
 SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT
 (An Institute of National Importance, Established under NIT-SEI Act by Ministry of Education, Govt. of India)



No.Acad/Ph.D./827/2022 - 23

Date:13/04/2023

PH.D. NOTIFICATION NO. S27

Ref. As per Ph.D. Viva-Voce Examination report of Chairman
 dtd:06/04/2023

It is hereby notified that on recommendation of the Board of Examiners appointed to adjudicate on the Thesis entitled "Biocompatible Smart Nanoparticle Based Drug Delivery Vehicles for Effective Anticancer Treatment" submitted by NAYAK JYOTSNAMAYEE NARAYAN (DS17CY003) of Department of Chemistry is received. The Director is pleased to accept the reports of the Board of Examiners and declare her eligible for the award of degree of Doctor of Philosophy (Ph.D.) in the Subject/Faculty/Department shown against her name as here under:

Name of the Candidate	NAYAK JYOTSNAMAYEE NARAYAN
Faculty	SCIENCE
Subject	CHEMISTRY
Name of the Supervisor(s)	1. DR. SUBAN KUMAR SAHOO 2. DR. RAJENDER KUMAR

Accepted
 13.4
 I/C. DY. REGISTRAR (ACAD)

C.C. to :

1. Concerned Candidate : NAYAK JYOTSNAMAYEE NARAYAN
2. Concerned Department: Department of Chemistry
3. Concerned Supervisor(s): DR. SUBAN KUMAR SAHOO ,
DoC, SVNIT, Surat
DR. RAJENDER KUMAR
CUHP, Himachal Pradesh

Annexure-VIII

Course Code: CCS 616

Course Name: Review of Literature/ Research Proposal

Credits: 4

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UNIT – I: Literature Review

Importance of literature review, Classification of literature into primary and secondary sources, Difference between primary and secondary sources, various tools for doing literature search specifically the Sci finder and Google scholar.

UNIT –II: Publications and dissertation

Basic information of a research publication. Types of research publications specifically the original research articles and reviews. Different components of a student dissertation and critical points to cover in each section.

Unit-III Crafting of Research Proposal

Basic information about a research proposal, Need of research proposal. Different steps in writing a research proposal such as defining the research questions, defining of objectives, identifying the difference between research question and objective. Importance of research methodology in a proposal, Difference between publication and proposal.

Unit-IV Research ethics

Definition, introduction, importance of research ethics, Plagiarism, copy right, citation and acknowledgement. Safety rules of laboratory acquaintance of experimental set up, importance of safety and security of data. Review of published research in the relevant field.

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on the basis of need of research project etc. Software training will be as per use and need of software will be related to Chemistry and Chemical Science. The syllabus detail is given in Annexure-III.

Resolution No. 3 : Honourable Members approved the modification and/or finalizing the course content of CCS 615 "SOFTWARE BASED DATA ANALYSIS" for M.Sc. 3rd Semester. The Syllabus of CCS 615; SOFTWARE BASED DATA ANALYSIS third Semester will be research related and will be assigned on the basis of need of research project etc. Software training will be as per use and need of software will be related to Chemistry and Chemical Science.

Agenda Item No. CCS-BOS-6/22-4: Splitting of course CCS 616 (8 Credits) for M.Sc. 3rd Semester into two courses as CCS 616; REVIEW OF LITERATURE / RESEARCH PROPOSAL (2 Credits) and CCS 617; REVIEW OF LITERATURE / RESEARCH PROPOSAL (LAB) (6 Credits) & approval of the syllabus of course CCS 616. The syllabus detail is given in Annexure-IV.

Resolution No. 4 : Splitting of course CCS 616 (8 Credits) for M.Sc. 3rd Semester into two courses as CCS 616; REVIEW OF LITERATURE / RESEARCH PROPOSAL (2 Credits) and CCS 617; REVIEW OF LITERATURE / RESEARCH PROPOSAL (LAB) (6 Credits) & syllabus of course CCS 616 are approved by Honourable Members.

Agenda Item No. CCS-BOS-6/22-5: Incorporation & Distribution of Marks of new course code CCS 617; REVIEW OF LITERATURE / RESEARCH PROPOSAL (LAB) for M.Sc. 3rd Semester. Distribution of marks for the course CCS 617 lab (Credits 6) is given below:

Mid Term Assessment (Presentation)	Internal Assessment	End Term Assessment (Presentation)	Total
60 Marks	60 Marks	180 Marks	300Marks

Note: The End term examination of 180 marks will be awarded on the basis of the evaluation of report on research proposal including the literature review. Both the components will have 60 marks each (60+60=120 marks) and the rest of 60 marks will be awarded after the final presentation.

Resolution No. 5 : Incorporation & Distribution of Marks of new course code CCS 617; REVIEW OF LITERATURE / RESEARCH PROPOSAL (LAB) for M.Sc. 3rd Semester are approved by Honourable Members.

Agenda Item No. CCS-BOS-6/22-6: Distribution of Marks of course CCS 627 (Credits 8) for M.Sc. 4th semester is given below:

Presentation	Viva	Dissertation	Total
50	100	250	400Marks

Resolution No. 6 : Distribution of Marks of course CCS 627 (Credits 8) for M.Sc. 4th semester are approved by Honourable Members.

Agenda Item No. CCS-BOS-6/22-7: Approval of the proposal for initiating the 6 Months Certificate Course in "BIOMATERIAL CHEMISTRY" by Department of Chemistry and Chemical Science. It is proposed to introduce Certificate Course by adopting NEP guidelines. The List of courses offered for the certificate course for session 2022-23 is given below:

3/1/23

(Handwritten signatures and initials)