

UNIVERSITY OF JAMMU

NOTIFICATION 01 OF 2025

DATE: 20.03.2025.

Subject: UNIVERSITY REGULATIONS

It is notified that the 88th meeting of the University Council held on 30th December, 2024 at Raj Bhavan, approved the following Regulations:-

(i)	Adoption of Research Policy (2023-24) including Establishment of Research and Development Cell (Annexure-I) (as a new Chapter-LVIII (A), Volume-II in the University Calendar, 2010) passed vide Resolution No. 88.23.				
(ii)	Adoption of revised Clause regarding Number of Attempts in University Examinations and duration of the course for students admitted under 2016 regulations issued vide No. BOA/2-B/UG/2023 dated 18.07.2023 by the National Medical Commission for India System of Medicine (Annexure-II), implemented in toto passed vide Resolution No. 88.29.				
(iii)	Adoption of Competency Based Medical Education Curriculum (CBME) Guidelines issued by the National Medical Commission (Undergraduate Medical Education Board) vide No. U.14021/8/2023-UGMEB dated 01.08.2023 w.e.f. the date of its publication i.e. 01.08.2023 along with amendment in the provision at page 58 of CBME Guidelines issued vide Corrigendum No. U/14021/8/2023-UGMEB dated 1 st Sept, 2023 (Annexure-III), implemented in toto passed vide Resolution No. 88.32.				
(iv)	Amendment in Regulation 11 of the Statutes Governing Admission to the Master Degree / PG Diploma Programme of the University of Jammu for the Academic Session 2023-24 and onwards already incorporated in JUET Admission Brochure passed vide Resolution No. 88.35 is as given below: <table border="1"><thead><tr><th>Regulation 11 (Existing)</th><th>Regulation 11 (Amended)</th></tr></thead><tbody><tr><td>11. Notwithstanding anything contained in Regulation/ Instruction above, a candidate who has passed M.A./M.Sc./M.Com /LLB etc examination from the University after having passed B.A./B.Sc./B.Com examination with minimum 55% marks, 50% for SC/ST Categories, shall also be eligible for admission under second</td><td>11. Notwithstanding anything contained in Regulation/ Instruction above, a candidate who has passed M.A./M.Sc./M.Com /LLB etc examination from the University of Jammu after having passed B.A./B.Sc./B.Com examination with minimum 55% marks, 50% for SC/ST Categories, shall also be eligible for admission under second</td></tr></tbody></table>	Regulation 11 (Existing)	Regulation 11 (Amended)	11. Notwithstanding anything contained in Regulation/ Instruction above, a candidate who has passed M.A./M.Sc./M.Com /LLB etc examination from the University after having passed B.A./B.Sc./B.Com examination with minimum 55% marks, 50% for SC/ST Categories, shall also be eligible for admission under second	11. Notwithstanding anything contained in Regulation/ Instruction above, a candidate who has passed M.A./M.Sc./M.Com /LLB etc examination from the University of Jammu after having passed B.A./B.Sc./B.Com examination with minimum 55% marks, 50% for SC/ST Categories, shall also be eligible for admission under second
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	<p>preference category:</p> <p>a) A programme where the minimum eligibility condition is passed with minimum 55% marks, 50% for SC/ST Categories, in final examination of Three Year Degree (General) Course after 12 years of schooling</p> <p>b) A Masters Degree Programme in an allied subject, if otherwise permissible under Statutes/Regulations of the University. However, admission of a candidate who has already pursued two Master Degree Programmes or Ph.D/M.Phil. Programme is not eligible to seek admission on whole time basis. However in case of Under Graduate courses, if the candidate has passed 10+2 examination from any recognized school not falling in the Jammu Province the candidate shall be considered under second preference.</p>	<p>preference category except for L.L.M, M.P.Ed, M.Lib.I.Sc, M.Ed &M.Tech. Programmes</p> <p>a) Deleted</p> <p>b) Deleted.</p>							
(v)	Adoption of guidelines of the University of Jammu Research Fund (UoJRF), University of Jammu (Annexure-IV) (as a new Chapter- XI-III, Volume-I in the University Calendar 2010) passed vide Resolution No. 88.38.								
(vi)	Adoption of J&K Rehabilitation Assistance Scheme notified vide S.O. 429 dated 06.09.2022 by the University of Jammu and its amendments issued vide S.O. 397 dated 16.08.2024 to make Compassionate Appointments and grant monetary compensation under the scheme (Annexure-V), implemented in toto passed vide Resolution No. 88.39.								
(vii)	Amendments in the Rules for the Use of Dhanvantri Library Facilities by Private members, 2017, to incorporate the Membership for Wards of Permanent Employee of University of Jammu (in Chapter-XIV, Volume-I of the University Calendar, 2010) passed vide Resolution No.88.48 is as under:								
	<table border="1"> <thead> <tr> <th>S.No.</th> <th>Existing</th> <th>Amended</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td> Definitions: A. Private Member: For the purposes of these Rules ,any of the following users shall be called a 'Private Member': i. Any member of the authorities or </td> <td> Definitions: A. Private Member: For the purposes of these Rules, any of the following users shall be called a 'Private Member': i. Any member of the authorities or </td> </tr> </tbody> </table>	S.No.	Existing	Amended	1.	Definitions: A. Private Member: For the purposes of these Rules ,any of the following users shall be called a 'Private Member': i. Any member of the authorities or	Definitions: A. Private Member: For the purposes of these Rules, any of the following users shall be called a 'Private Member': i. Any member of the authorities or		
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	<p>bodies of the University of Jammu;</p> <p>ii. Former Post Graduate students of the University of Jammu;</p> <p>iii. Retired teachers of the University of Jammu</p> <p>iv. Retired Officers of the University of Jammu;</p> <p>v. Prominent government officials and eminent scholars;</p> <p>vi. Former students of Jammu region who have obtained their degrees from institutions/Universities other than the University of Jammu.</p>	<p>bodies of the University of Jammu;</p> <p>ii. Former Post Graduate students of the University of Jammu;</p> <p>iii. Retired teachers of the University of Jammu</p> <p>iv. Retired Officers of the University of Jammu;</p> <p>v. Prominent government officials and eminent scholars;</p> <p>vi. Former students of Jammu region who have obtained their degrees from institutions/Universities other than the University of Jammu</p> <p>vii. Wards of Permanent Employees of University of Jammu.</p>
2.	<p>Registration of Private member: The applicant shall have to attach along with his/her Membership Form ,valid copies of the following documents:</p> <p>i . his/her valid photo ID,</p> <p>ii. his/her educational qualification certificates,</p> <p>iii. his/her marks card,</p> <p>iv. An affidavit, given in Annexure-B attached to the Rules, to be sworn before and issued by First class Magistrate affirming a solemn oath by the conditions of private membership of Dhanvantri Library.</p>	<p>Registration of Private member: The applicant shall have to attach along with his/her Membership Form ,valid copies of the following documents:</p> <p>i .his/her valid photo ID,</p> <p>ii. his/her educational qualification certificates,</p> <p>iii. his/her marks card,</p> <p>iv .An affidavit, given in Annexure-B attached to the Rules, to be sworn before and issued by First class Magistrate affirming a solemn oath by the conditions of private membership of Dhanvantri Library.</p> <p>v. Certificate of being a Ward of University Employee (along with documents mentioned in Para 2.i-iv</p>
3.	<p>Duration of membership: The minimum period for which membership shall be given to a Private Member shall be 3 months and maximum period of membership shall be one year.</p> <p>Provided that no further extension beyond one year shall be given to a</p>	<p>Duration of membership: No change, same shall apply to Wards of University Employees.</p> <p>The rules shall remain the same for the Wards of University Employees.</p>

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		<p>private member in order to facilitate other fresh users of Library to use this facility.</p> <p>Provided further that no fresh membership shall be given to a Private Member after the refund of his/her Library security.</p> <p>4. Capacity/Seats: Subject to the availability of seats in the designated reading hall of Dhanvantri Library, the facility of Private Membership of the Library shall be granted to 200 users at a given time.</p> <p>5. Fee: The facility of using the Reading Hall shall be extended to the Private Members of Dhanvantri Library, University of Jammu enumerated in the clauses (i), (ii) and (vi) of Rule 4 (A) of these Rules who shall have to pay a fee of Rs.540/-* per month in addition to Rs. 1050/-* as refundable Annual Registration Fee.</p>	<p>Capacity/Seats: Subject to the availability of seats in the designated reading hall of Dhanvantri Library, the facility of Private Membership of the Library shall be granted to 200 users at a given time.</p> <p>Dhanvantri Library shall also provide Reading Hall facility to the Wards of the University Employees as per norms applicable to other Private Members, and 10% of the total seats allocated to private members shall be reserved for them. The allotment of seats to Wards of University Employees shall be made on the basis of merit. In case the seats reserved for Wards of University Employees remain vacant for the particular session, the same shall be offered to other applicants.</p> <p>Fee: The facility of using the Reading Hall shall be extended to the Private Members of Dhanvantri Library, University of Jammu enumerated in the clauses (i), (ii) and (vi) of Rule 4 (A) of these Rules ,who shall have to pay a fee of Rs.710/-* per month in addition to Rs. 1410/-* as refundable Annual Registration Fee. In addition to this Rs. 200/- be charged as one time fee from the Private Members who obtained their degrees other than University of Jammu. The fee and other charges payable by the members are subject to change owing to the notifications issued by the University of Jammu.</p>
(viii)	Adoption of the "Earn While You Learn Scheme" UGC Draft Guidelines for the students of the University of Jammu (Annexure-VI), implemented in toto, passed vide Resolution No. 88.49.		

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(ix)	Institution of Endowment in the form of Gold Medal in the name of Late Dr. Kapila Raina, Associate Professor, Department of Bio-Chemistry GMC, Jammu for MBBS students who secure highest marks in the subject of Bio-Chemistry & its bye-laws. (Annexure-VII) (in Chapter-XI, Volume-I in the University Calendar, 2010) passed vide Resolution No. 88.50.																						
(x)	Amendment in Clause 5(b) in the Students Aid Fund Regulations from the session 2022-23 onwards (in Chapter-XXV, Volume-I of the University Calendar, 2010) passed vide Resolution No. 88.58 is as under:																						
	<table border="1"> <thead> <tr> <th data-bbox="414 667 502 757">S. No.</th> <th data-bbox="502 667 901 757">Regulations of Students Aid Fund before amendment</th> <th data-bbox="901 667 1396 757">Amended Regulations of Students Aid Fund</th> </tr> </thead> <tbody> <tr> <td data-bbox="414 757 502 846">1.</td> <td data-bbox="502 757 901 846">The family income slab should be upto Rs. 10,000/- per month.</td> <td data-bbox="901 757 1396 846">The family income slab should not be more than 20,000/- per month.</td> </tr> <tr> <td data-bbox="414 846 502 936">2.</td> <td data-bbox="502 846 901 936">The cap of Students Aid Fund shall be Rs. 10,000/- per student.</td> <td data-bbox="901 846 1396 936">The cap of Students Aid Fund shall be Rs. 15,000/- per student.</td> </tr> <tr> <td data-bbox="414 936 502 1025">3.</td> <td data-bbox="502 936 901 1025">Social backwardness and factors like a student coming from rural or comparatively inaccessible areas.</td> <td data-bbox="901 936 1396 1025">No Change</td> </tr> <tr> <td data-bbox="414 1025 502 1115">4.</td> <td data-bbox="502 1025 901 1115">Not existing</td> <td data-bbox="901 1025 1396 1115">The student must be having a BPL Ration Card.</td> </tr> <tr> <td data-bbox="414 1115 502 1265">5.</td> <td data-bbox="502 1115 901 1265">Not existing</td> <td data-bbox="901 1115 1396 1265">The HOD concerned shall recommend upto 05 applications of the students after conducting initial screening through the DAC in order of merit.</td> </tr> <tr> <td data-bbox="414 1265 502 1444">6.</td> <td data-bbox="502 1265 901 1444">The student/s must be regular in attendance, maintain proper discipline in the campus and the HOD is satisfied about his/her progress in studies.</td> <td data-bbox="901 1265 1396 1444">The student/s must be regular in attendance , maintain proper discipline in the campus and the HOD is satisfied about his/her progress in studies. (Certificate in this context has to be attached along with application)</td> </tr> </tbody> </table>	S. No.	Regulations of Students Aid Fund before amendment	Amended Regulations of Students Aid Fund	1.	The family income slab should be upto Rs. 10,000/- per month.	The family income slab should not be more than 20,000/- per month.	2.	The cap of Students Aid Fund shall be Rs. 10,000/- per student.	The cap of Students Aid Fund shall be Rs. 15,000/- per student.	3.	Social backwardness and factors like a student coming from rural or comparatively inaccessible areas.	No Change	4.	Not existing	The student must be having a BPL Ration Card.	5.	Not existing	The HOD concerned shall recommend upto 05 applications of the students after conducting initial screening through the DAC in order of merit.	6.	The student/s must be regular in attendance, maintain proper discipline in the campus and the HOD is satisfied about his/her progress in studies.	The student/s must be regular in attendance , maintain proper discipline in the campus and the HOD is satisfied about his/her progress in studies. (Certificate in this context has to be attached along with application)	
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(xi)	Adoption of amended reservation policy issued by the Social Welfare Department, Jammu and Kashmir Government vide S.O. 176 notification No. SWD-Acts/2/2024-02 dated 15.03.2024 and S.O. 305 issued vide SWD-Acts/2/2024-02 dated 21.05.2024 for the direct recruitment of Non-Teaching/Administrative Staff in the University of Jammu (Annexure-VIII) , implemented in toto passed vide Resolution No. 88.64.																						
(xii)	Adoption of amended Reservation Policy issued by Social Welfare Department UT of J&K vide S.O 176 notification No. SWD-Acts/2/2024-02 dated 15.03.2024 and S.O 305 notification No. SWD-Acts/2/2024-02 dated 21.05.2024 (100 points) Roster for direct recruitment in respect of University teachers/ Non-Vocational Academic Staff in the University of Jammu (Annexure-VIII) implemented in toto passed vide Resolution No. 88.65.																						

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(xiii)	Adoption of 'ratio of sharing of Consultancy fee/Charges in case of University and Faculty concerned' (50% in case of faculty concerned and 50% in case of University instead of 70%:30%) in the already adopted Consultancy norms under the policy framework University of Jammu Special Purpose Vehicle Foundation (UOJSPVF) (as a new Chapter- LXXIII-U, Volume-II in the University Calendar, 2010) passed vide Resolution No. 88.74.
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No: Coord/JU/88-UC/Reg/25/3663-3762.

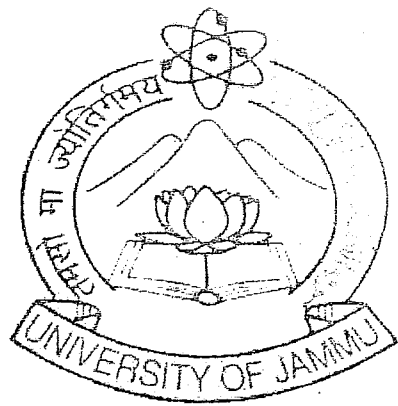
Baba Saheb Ambedkar Road,
Jammu (Tawi) - 180 006.

Date: 20.03.2025

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REGISTRAR
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20/3/25

Copy to:

1. Principal Secretary to Hon'ble Lt.Governor (Chancellor of the University), Raj Bhavan, Jammu.
2. Private Secretary to the Hon'ble Chief Minister (Pro-Chancellor) Chief Minister's Secretariat, Jammu.
3. The Private Secretary to the Hon'ble Education Minister, Higher Education Dept., Civil Secretariat, Jammu.
4. Financial Commissioner (Additional Chief Secretary) to Govt., Higher Education Department, J&K Govt., Civil Secretariat, Jammu.
5. Principal Secretary to Govt., Finance Dept. (Financial Advisor Universities), Civil Secretariat, Jammu.
6. Administrative Secretary to Planning and Development & Monitoring Dept., J&K Govt., Civil Secretariat, Jammu
7. Deputy Secretary/Under Secretary/Private Secretary to Hon'ble Lt. Governor (Chancellor of the University), Raj Bhavan, Jammu.
8. Secretary to Govt. Planning and Development Dept., J&K Govt., Civil Secretariat, Jammu.
9. All members of the University Council/Syndicate, University of Jammu.
10. Spl. Secretary to Vice-Chancellor, University of Jammu/ Kashmir.
11. Sr. P.A. to Dean Academic Affairs, University of Jammu.
12. Sr. P.A. to Dean Research Studies, University of Jammu.
13. Deans of the Faculties of the University of Jammu.
14. Dean Students Welfare/Placement Cell, University of Jammu.
15. Sr. P.A. Controller of Examinations, University of Jammu/Kashmir.
16. All Rectors/Directors Campuses, University of Jammu.
17. Coordinator Campuses, University of Jammu.
18. Sr. P.A. to Director, CDC/DLL/DDE/DIQA.
19. Sr. P.A. to Finance Officer, University of Jammu
20. Principals of all affiliated Colleges of the University.
21. I/c Librarian, Dhanvantri Library, University of Jammu.
22. All Branch Officers of the Registry.
23. Director, Centre for IT Enabled Services & Management with the request to get it uploaded on the University Website .
24. Guard file.



**Office of Dean Research Studies
University of Jammu, Jammu
Jammu & Kashmir, India**

**Research Policy
(2023-24)
(Research & Development Cell)**

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1. DEAN RESEARCH STUDIES

1.1 Introduction

The office of Dean of Research Studies was established in 2011 so as to steer the vision of the University in the research domain and implement the research agenda. Earlier there was a section called as Research & Awards section which dealt in the matters of research activities of the University of Jammu. Accordingly, the office functions under the overall supervision of the Dean of Research Studies.

1.1.1 Powers and Functions of Dean Research Studies (Notification No. 4 of 2013 dated 04.03.2013)

The office of the Dean Research Studies:

1. Shall work to facilitate and promote quality research in University/ Satellite Campuses/ and recognised research centres/ laboratories.
2. Shall coordinate, supervise, and recommend to the Vice-Chancellor for the approval of the admission of students to Ph.D./D.Sc./D.Lit./DLL/PDF/any other research programmes in various faculties.
3. Shall recommend to the Vice-Chancellor in consultation with Dean Academic Affairs and Deans of the Faculties, modifications, amendments in the statutes governing the admission of students to Ph.D./D.Sc./D.Lit./DLL and other research programmes for placement before relevant statutory bodies (if necessary).
4. Shall coordinate and facilitate a timely Board of Research Studies meeting in various faculties.
5. Shall coordinate and facilitate the submission of research project proposals to various funding agencies by Principal Investigators and will also be responsible for their internal monitoring. For this purpose, a Projects and Planning Cell would be created, which would function under Dean Research Studies and the Cell would be responsible for the timely disposal of all matters, including financial issues related to research projects, fellowships and scholarships.
6. Shall recommend to the Vice-Chancellor recurring and non-recurring expenditure provided under the sanctioned research projects(s).
7. Shall be responsible for signing the Utilisation Certificates of research projects and their timely submission to concerned funding agencies.

8. Shall provide necessary guidance and encourage teachers/researchers to write research project proposals and suggest incentives or other initiatives to the Vice-Chancellor for the purpose.
9. Shall liaison with relevant international, national/regional agencies/organisations/groups/individuals for financial support and promotion of quality research in the University.
10. Shall make efforts to position the University in such a manner that it carries out research on problems of immediate concern to the Jammu & Kashmir State and contribute towards the sustainable development of the state (local and regional).
11. Shall scrutinize and recommend the research proposals received from various University Departments/ Centres/ Institutes and other related research programmes to the Vice-Chancellor for approval.
12. Shall supervise and promote the quality of Research Journal(s) published by the University.
13. Shall recommend as Chairperson of a committee (to be formed by the Vice-Chancellor) the allocation of plan and non-plan research grants received by the University to various departments/research centres based on their needs and contributions.
14. Shall identify key areas of research in the University in consultation with Deans and HODs and ensure their promotion to achieve national eminence in such areas.
15. Shall prepare an annual research report and identify the initiatives to be taken to promote/maintain quality of the research work.
16. Shall keep track of research funding schemes/special calls advertised by various funding agencies, both national and international, and sensitise the University faculty and other stakeholders (including research scholars/students) to apply for funding to promote his/her innovative pursuits.
17. In the absence of the Vice-Chancellor, the Dean of Research Studies shall chair the meetings of the Board of Research Studies (BORS) and other research and development committees.
18. Shall be responsible to sign the Utilisation Certificates for funds besides the financial and legal authorities of the University sanctioned under various sponsored projects.
19. Communicate approval to the proposals of Heads of the Departments for deputing delegates from the University to conferences, seminars and workshops after these are

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recommended by concerned HoDs, Deans and formally approved by the Vice-Chancellor

20. Shall be responsible for the effective utilisation of grants from Central/State agencies for the development of research-related infrastructure.
21. Shall be responsible for the timely purchase/procurement of scientific equipment in consultation with a duly constituted Purchase/Technical Committee to be nominated by the Vice-Chancellor.
22. Shall be responsible for receiving and disbursing financial support offered by various funding agencies for projects related to research and infrastructure development.
23. Shall supervise and carry out any other work related to the research to be assigned by the Vice-Chancellor.

1.1.2 Boards of Research Studies

At present, there is a Board of Research Studies in the following eight faculties of the University:

- Faculty of Science
- Faculty of Social Science
- Faculty of Life Sciences
- Faculty of Mathematical Science
- Faculty of Business Studies
- Faculty of Arts
- Faculty of Education
- Faculty of Law

1.1.3 Powers and Functions of the Boards of Research Studies

Each Board shall have the following powers and functions, namely:

- To consider and grant applications for registration for the research degrees in the light of the recommendations made by the Head of the Post-Graduate Department concerned.
- To appoint supervisors for the guidance of research studies.
- To prescribe the maximum number of research scholars to be guided as per the norms.
- To submit to the Academic Council suggestions and proposals for organising or improving the research studies at the University.



- To consider any other matter referred to it by the Academic Council, the Syndicate, and the University Council.

2. RESEARCH AND DEVELOPMENT CELL

2.1 Introduction

The National Education Policy (NEP) 2020 envisages the promotion of quality research within the Higher Education system. Research and innovation are important aspects to enhance quality education by the Higher Education Institutions (HEIs). Societal challenges of our country can only be addressed by having a strong and vibrant higher education ecosystem with an emphasis on research, innovation, and technology development. The integration of Research, Innovation and Technology Development is the foundation of Atma-Nirbhar Bharat (Self-reliant India). The establishment of the Research and Development Cell (R&DC) at the University of Jammu is aimed at enabling the attainment of targets set by Atma-Nirbhar Bharat and is expected to play a crucial role in catalysing the multidisciplinary, transdisciplinary, and translational research culture mandated in NEP 2020.

As per the guidelines issued by the University Grants Commission regarding the establishment of the **Research and Development Cell** in Higher Education Institutions, Research and Development Cell has been constituted under the aegis of the office of **Dean Research Studies**, comprising of five components. These components are executed through the respective committees constituted along the themes. The five components are as follows:

1. Research & Development Programme
2. Collaboration and Community
3. Finance and Infrastructure
4. Product Development, Monitoring and Commercialisation
5. IPR, Legal and Ethical Matters

2.1.1 Vision and Mission

- To put in place a robust mechanism for developing and strengthening the research ecosystem within the University in accordance with the provisions of NEP-2020.
- To create a congenial ecosystem environment for enhanced research productivity.
- To promote collaboration across industry, government, community-based organisations, and agencies at the local, national, and international levels.
- To facilitate greater access to research through optimum utilisation and mobilisation of existing resources and funding.

2.1.2 Objectives

- To build an organisational or intra-institutional structure with role-based functions for R&DC, formulate Research Policy for the University, identify thrust areas of research, and form related cluster groups, frontline teams, or consortiums of researchers.
- To help the University create research policies for recruitment of research personnel, procurement of equipment, and financial management with sufficient autonomy for the Principal Investigator(s) and propagate research outcomes to stakeholders and the public at large.
- To put in place policies to promote researchers and innovators, identify potential collaborators from industry, research organisations, academic institutions, and other stakeholders for cooperation and synergistic partnerships.
- To act as a mediator between researchers and relevant research funding agencies, provide guidance in the preparation and submission of project proposals, and post-sanctioning of the grants to supervise adherence to timelines.
- To create mechanisms for coordination among other cells and centres dealing with University-industry interlinkage, incubation, innovation and entrepreneurship development, and intellectual property rights (IPR).
- To develop an institutional research information system through Internal Quality Assurance Cell (IQAC) for sharing the status of ongoing or completed research projects, programmes, expertise, resources, etc., and making effective use of Information & Communication Technology (ICT) for preparing the database of in-house experts to provide industrial consultancy and services.
- To engage and optimally utilise the services of superannuated active faculty and scientists in the capacity building of talented young minds in research and to promote mobility of researchers across institutions and R&D labs.
- To serve as a nodal centre for ideation and conceptualisation of research topics and themes across the disciplines by organising workshops and training programmes and ensuring the integrity and ethical practices of research activities, including clearance of the ethical committee wherever and whenever needed.

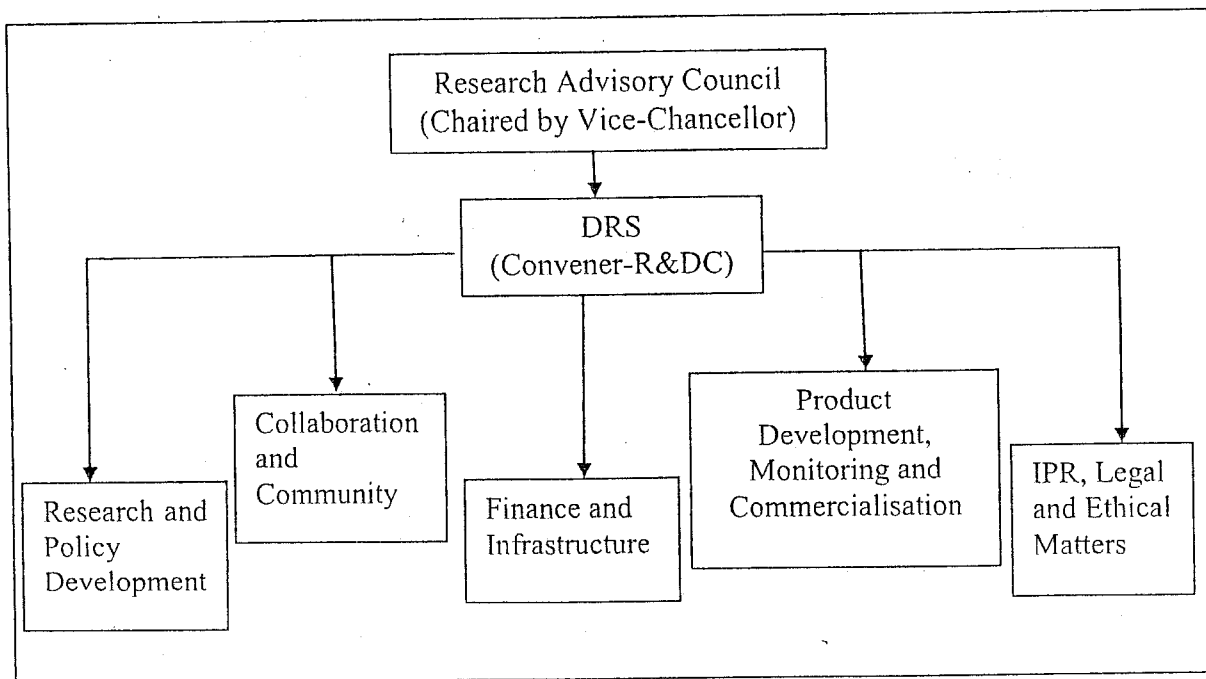
2.1.3 Functions

The establishment of the R&DC would facilitate the creation of a research ecosystem for impactful and sustained research output. Human resources (researchers and faculty),

intellectual capital (knowledge and skills), governance (regulation and policies), and financial resources (funding and grants), all address the fundamental components of such an ecosystem, namely the generation of knowledge and facilitation of research, innovation, and technology development for industrial and societal benefits.

2.1.4 Governance

An efficient governance mechanism that ensures functional autonomy, transparency, accountability, and adaptability by strengthening interlinkages to create a conducive research environment. The University of Jammu can foster the human elements (faculty, staff, scholars, and students), logistics (land, buildings, and facilities), knowledge resources (research equipment, project utilities, and consumables), fund flow, etc. through steady, proficient, effective governance (rules, norms, and policies) and financial (grants and funds) management. Establishing effective and reliable research governance in R&DC at University of Jammu requires dedicated leadership and administrative structure for research, under the direction of experienced researchers. The Research Governance will have a Research Advisory Council (RAC) headed by the Vice-Chancellor or his nominee as the apex body of the R&DC. DRS will be the Convener of the R&DC and will lead various committees responsible for driving governance. R&DC may form multiple committees to smoothen its functioning with respective committee members nominated by the DRS and approved by RAC. The organisational structure of R&DC comprising of various committees for specified functions, may be as follows:



Note: As per UGC components

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2.1.5 Administration

Established organisational structures (bodies, authorities, and committees) will facilitate the planning, implementation, and monitoring of research activities in University of Jammu and formulate rules, regulations, and policy frameworks for the utilisation of facilities and resources at University of Jammu. A strategy adopted to integrate multiple functional units can support institutional research under a single-window operational system for effective administration. The activities of R&DC will be mentored and monitored by various committees for devising research models, technology, appraisal, foresight, and review functions, mediating sectoral R&D progress, and IPR protection. R&DC should keep in close contact with the Ministry Innovation Cell to make use of various innovative plans for facilitating the researchers.

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3. RESEARCH POLICY

3.1 Introduction

According to the National Education Policy (NEP) 2020, universities have mainly been divided into research-intensive and teaching-intensive. Given that the University of Jammu is a research-intensive institution with teaching as its main focus, a strong research policy that gives direction and support to high-caliber research becomes a crucial element.

The University of Jammu aims to establish itself as a leading research University in the world. Through the creation and use of knowledge, it continuously adjusts to shifting social realities. It conducts research in over 39 disciplines at the M.Phil. and Ph.D. levels (the M.Phil. programme was discontinued after the adoption of NEP-20), in addition to providing post-graduate students with research exposure through dissertations and projects during the third and fourth semesters of their post-graduate programmes. The faculty members have distinguished themselves in their fields of study and contributed significantly to the University. The University has received funding from the DST-PURSE Project (Phase I and II), DST-FIST, RUSA, and other programmes in appreciation of the research work it has conducted. Through research initiatives supported by DST, UGC, ICMR, CSIR, DAE, DRDO, ICSSR, ICAR, ICHR, etc., extra-mural funds of crores have been sanctioned to the University.

With the rapid changes taking place in societal, technological, and cultural aspects, research and the knowledge generated therefrom have become key tools for improving society and elevating our country. Any University hoping to compete on a national and international scale needs a strong research ecosystem. The NEP (2020) places a strong emphasis on a culture of interdisciplinary, transdisciplinary and multidisciplinary research that fosters innovation. With a synergistic approach to research that begins at the college level and has integration with higher education, the policy aims to totally alter and revolutionise the quality of research in the academic environment.

The research policy of the University of Jammu has been framed in accordance with the ideals as envisioned in the NEP (2020), keeping thrust on the socio-economic and socio-scientific issues confronting society, especially in the Union Territory of Jammu and Kashmir. It offers

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a vision that aims to advance integrated research activities at the University and to specify the role of the University of Jammu in contributing knowledge to the current globalised world. The University of Jammu is devoted towards pursuing excellence in research, and the policy is anticipated to provide guidance for improving its research ecosystem.

3.1.1 Research Purpose

With the rapid changes taking place in societal, technological, and cultural aspects, research and knowledge generation have become key tools for uplifting society and taking our nation to a greater height. A robust research ecosystem is needed by any University aspiring to compete at national and international levels. NEP (2020) also lays emphasis on a culture of research in inter-disciplinary areas leading to innovation and oriented towards solving societal problems. The policy envisions completely changing and transforming the quality of research in the academic ecosystem through a synergistic approach to research, starting at the school level and integrating it into higher education. The research policy of the University of Jammu has been framed in accordance with the ideas envisioned in NEP (2020).

The research policy of the University has been drafted so as to provide focus, clarity, and vision for the development of research pursuits in the University and to define the role of the University of Jammu in providing knowledge inputs in the current globalised world. The policy is expected to provide direction to enhance the research ecosystem of the University.

3.1.2 Research Vision


The University aims to extend the frontiers of knowledge, stimulate creativity and innovation, and solve real-world problems. It is accepted that investment in research infrastructure, human resources, and building national and international partnerships are crucial elements of the research ecosystem. The University pledges to provide the best of these to all stakeholders so as to enhance their contribution in strategic emerging areas of research.

3.1.3 Objectives

- Creating an enabling environment within the University in order to foster a research culture and provide support through a research framework and guidelines.

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- Ensuring a high level of efficiency and effectiveness in the support system to facilitate faculty and researchers in their research pursuits.
 - Encouraging publications in quality journals, filing patents, and developing cutting-edge technologies with scope for commercialisation.
 - Nurturing an environment for undertaking socially useful research with a specific focus on strategic issues within Jammu and Kashmir State.
 - Establishing inter-disciplinary research centres within the University with potential for excellence.
 - Promoting inter-disciplinary collaborations and partnerships at the state, national, and international levels.

3.2 University of Jammu Research Fund (UoJRF)

The University Research Fund has been instituted by the University of Jammu vide University Council Notification No. 01 of 2019 dated 29.07.2019. It aims to strengthen the research activities of the departments/centres/offsite campuses. The quality of research and teaching serves as one of the major factors for prestigious accreditation to the University by NAAC. The said fund shall provide bedrock for the young and upcoming faculty members/scientists/researchers of the University to bank on assured financial support for continuous engagement in research that shall benefit academic pursuits of the University.

3.2.1 Aims and Objectives

The University of Jammu Research Fund (UoJRF) aims to support the permanent teaching faculty and scientists working in the main campus and offsite campuses in developing ideas with disruptive innovation potential through concrete projects (Independent, Interdisciplinary, Multidisciplinary or Transdisciplinary). The UoJRF also intends to provide research support to faculty members and scientists to motivate them to undertake quality research projects. The University of Jammu, through this fund strives to develop research ecosystem in the university, where every researcher shall be given opportunity to translate novel ideas into reality and create a foundation for obtaining larger funding from extramural sources. Through this financial support the office of DRS seeks to promote close academic interaction with industry and society to develop innovative technologies and promote intellectual capital.

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3.3 Constitution of Committees

I. Research Appellate Committee (RAC)

The following committee shall be constituted to address the issues related to admission to the research programmes of the University in a timely manner:

- Vice-Chancellor - **(Chairperson)**
- Dean Research Studies - **Member**
- Two Deans of Faculties nominated by the Vice-Chancellor
- Assistant Registrar (R&A) - **Member Secretary**

The Committee shall be constituted every two years.

- Its meeting shall be held within 30 working days after the completion of the research admission schedule (in case appeals are received).
- The applicants can apply on plain paper, stating their reason for appeal, and submit all necessary documents to support their application to the concerned head of the department within 7 working days after the completion of the admission process.
- The HoD shall place the appeals received (if any) in the Departmental Research Committee (DRC) and submit only those applications that have genuine grievances along with clear-cut recommendations from the DRC to the DRS office within five working days.
- The DRS office shall compile appeals (if any) received from various departments and present them before the Research Appellate Committee on the scheduled date.

The decision of the Research Appellate Committee shall be final and binding on all applicants.

II. Centralised Research Admission Committee (CRAC)

The Committee shall be constituted by Vice Chancellor to handle issues related to Ph.D. admission, including delayed condonation cases.

The committee, consisting of the following members, shall be constituted every two years:

- Dean Research Studies - **(Convener)**
- Three Deans of Faculties nominated by the Vice-Chancellor

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- Assistant Registrar (R&A) - **Member Secretary**

III. Research Grievances Committee (RGC)

The Research Grievances Committee (RGC) consisting of the following members shall be constituted every two years:

- Dean Research Studies - **(Convener)**
- Three Deans of Faculties nominated by the Vice-Chancellor
- Assistant Registrar (R&A) - **Member Secretary**

The Committee shall look into the grievances received by the DRS office and approved by the Vice-Chancellor for placing them in the RGC. The Committee shall meet as often as may be required and submit recommendations for each case to the Dean of Research Studies, which shall be submitted to the competent authority for approval.

3.4 Research Integrity and Responsible Conduct of Research

I. Anti-plagiarism measures adopted

Plagiarism of any kind is unacceptable, and researchers are encouraged to use novel ideas and acknowledge original ideas at the University. The University abides by all UGC regulations in full. The University has established departmental and institutional-level committees (DAIP and IAIP) to carry out the tasks given to these committees by the UGC.

A well-developed section in the Central Library of the University is equipped with the latest anti-plagiarism software, and all research publications (Ph.D. theses, books, and research publications) are scrutinised at various levels to prevent any misconduct. The University is currently using the Original Plagiarism checker. Original Plagiarism Checker is an award-winning software solution that combines text matching with writing style analysis, enabling educators and users to assess the authenticity of any research text, regardless of language. The services of this software are provided free of charge by INFLIBNET to all the universities that have signed MoU.

II. Institutional Ethical Committee

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In order to ensure a competent review of all ethical aspects of project proposals received and to provide advice to researchers on all aspects of the welfare and safety of the research participants after ensuring the scientific soundness of the proposed research, an Animal and Human Experimentation Institutional Ethical Committee has been constituted by the Hon'ble Vice-Chancellor, University of Jammu, comprising of the following:

- Chairperson
- One-two persons from basic sciences area
- One-two clinicians from various institutes
- One legal expert or retired judge
- One social scientist or representative of a non-governmental agency
- One philosopher/ethicist/theologist
- One layperson from the community
- Member Secretary

3.5 Thrust Areas of Research

In order to promote interdisciplinary research and address real issues and problems faced by society, the research clusters have been established at the University to promote innovative and interdisciplinary research. Producing patents/consultancy projects and collaborations with industry and leading research institutions would be mandatory for various centres of research clusters.

The following thrust areas have been identified:

- Data Science and Artificial Intelligence/Machine learning.
- Nanotechnology & Material Science
- Drug discovery
- Genomics and Virology, Genomics, Proteomics
- Plant & Microbial Genetic Research
- Condensed Matter Physics (Crystal Growth and X-ray Crystallography)
- High Energy Physics
- Nuclear Physics
- Electronics

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- Human Development
- Plant, Animal, Fungal & Microbial Genetics
- Bio-diversity & Plant/Animal Disease and Stress Biology, Physiology & Management
- Climatic Change and Sustainable Development
- Organizational, Business Innovation and Entrepreneurship Research
- Latest trends in library
- Media, Culture & Society
- Languages and Arts.
- Cultural Studies
- Indian Ethos
- Indian Knowledge Systems
- Business Studies
- Philosophy and Literature
- Indian Languages
- Social Sciences

Note: The list is indicative in nature and University reserves the right to add/modify the areas specified.

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4. Research & Policy Development (R&DC-I)

4.1 Submission of the project proposals

The Principal Investigator (PI) will complete the project submission form as per the prescribed format (Annexure-I) and as per the guidelines of the funding agency.

- All proposals for submission of research projects to the various funding agencies should be forwarded through the head of the concerned department, the Rector of Campus/Director of the campus, or the director of the centre or institute, who will certify the possibility to accommodate the research project work and staff within the existing laboratory space. The PI of the proposed project shall clearly state the extra space that would be needed, if any, and the HOD or Director of the Institute shall certify the availability of the same. The proposal must be cleared by the head of the department or director of the centre or institute within three working days.
- The project proposal with complete details of the financial requirement for capital expenditure (mentioning the name of the equipment and other infrastructure requirements along with the estimated cost), as well as details of the recurring expenditure and the total duration of the project, must be submitted to the office of the Dean of Research Studies and shall be processed within seven working days.
- The project proposals submitted to different funding agencies must ask for overhead charges as per the norms and guidelines of the funding agencies. If there are no guidelines prescribed by the funding agency regarding overhead charges, in that case, 10% overhead charges shall be considered while submitting the project proposal.
- Project assistant/s, field assistant/s, project fellow/s, or JRF/s may be included in the proposal as per the norms of funding agencies.
- If the project is with a non-government agency, a statement on the terms and conditions of the project, including the rights to patents and royalties, must be clearly spelled out.
- If a memorandum of understanding is to be signed at a later stage, the exact terms and conditions of the MOU, including the summary of the finalised project, shall be submitted to the office of the Dean of Research Studies.

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4.2 Sanction of the projects

The sanction letter and details of the amount sanctioned under different budget heads, the duration of the project, and other terms and conditions shall be communicated immediately to the office of Dean Research Studies and Grants Section as and when the sanction letter is received by the Principal Investigator. Further, a copy of every sanction letter as well as revisions to the sanction letter or release of funds must be communicated to the office of Dean Research Studies and Grants Section immediately by the PI upon receipt from the funding agency (Annexure-II).

4.3 Operation of projects

- A Departmental Purchase Committee of the relevant department must recommend all purchases after following the proper procedures in accordance with the University of Jammu's financial norms.
- All purchases regarding the project shall be made according to the notified financial codes i.e. GFR, etc.
- After carefully examining the tenders and quotations, the Principal Investigator (PI)/Competent Authority, as the case may be, will sign the purchase order.
- Payment of all the bills will be made through the Online Digital Mode (PFMS) by the Grant Section in favour of the concerned vendor. In the event that payment is to be made by PI, the same shall be made online in digital mode as per the guidelines of the Government of India.
- TA/DA in the project for field work and visits outside the Jammu for attending conferences, seminars, and symposia can be paid as per the guidelines of the funding agency and/or University of Jammu norms applicable to PI/Co-PI/Research Scholars working in the project upon approval and justification by the PI.
- On the recommendation of the concerned Head of the Department and Dean of Research Studies, the PI/Co-PI and staff will need the approval of the competent authority for the time spent conducting project-related fieldwork or working collaboratively in another laboratory.
- Re-appropriation of funds under various budget heads of a project shall be allowed only if the concerned funding agency permits.

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4.3.1 Annual Statement of Expenditure and Utilisation Certificate

Principal Investigator shall prepare a statement of expenditure and Utilisation Certificate within the stipulated time period prescribed by the funding agency. The Utilisation Certificate and Statement of Expenditure must be submitted to the Grants Section for confirmation, cross-checking, and onward transmission to the funding agency.

4.3.2 Management of Overheads

- From overall funding, excluding the cost of equipment, 50% of the overhead shall be shared with the University and shall be deposited from the Account to University Research Funds (UoJRF), and 50% shall be retained by the PI.
- The overhead charges shall be kept at the disposal of the PI to meet his or her contingency requirements. Funds under this head can be utilised by PI up to nine months beyond the tenure of the project. Any unspent amount from the PI share will be transferred to University funds after the closing date.

The PI can use his or her share of the overhead charges to pay for the following expenses:

- Infrastructure.
- Repair and upgradation of scientific equipment; maintenance of services; purchase of minor accessories, etc.
- Cost of advertisements in newspapers for project positions.
- Hiring manpower, including secretarial assistance, is subject to approval by competent authority as per University norms.
- Expenses to meet travel, registration fees for participation in conferences and symposia, and visits to another laboratory for collaborative work.
- Publication charges for research articles in peer-reviewed journals.

4.3.3 Research Project Funded by an Agency other than the Government

The proposal for research projects funded by non-government agencies will be submitted with a minimum cost of 20% as overhead charges, or as prescribed by the agency.

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4.3.4 Appointments and Engagements

- For appointments/engagements to the position under Project, applications shall be invited after giving wide publicity regarding the vacancies.
- In cases where vacancies are for a period of up to six months, such posts need not be advertised but shall be circulated in the departments of the University and on the University's website.
- In cases where vacancies are for more than six months, such vacancies need to be advertised in the local newspaper and on the University's website.
- In case where vacancies are for more than one year, such vacancies need to be advertised in at least one national newspaper. The same vacancy shall be advertised on the University website for at least three weeks.
- The Principal Investigator will seek the applications. The office of DRS shall conduct selection process for the eligible shortlisted candidates.

The Appointment Committee consists of the following members:

- Dean of Research Studies (Chairperson)
- Dean of the concerned Faculty
- Head of the Department of the concerned Faculty
- External Expert
- Principal Investigator
- Assistant Registrar (R&A)

The appointment/engagement letters shall be issued to candidates by the office of the Dean of Research Studies. A copy of the appointment letter shall also be sent to the Registrar/Gants Section. All appointment letters shall clearly indicate the terms and conditions of appointments.

- Appointment/engagement of staff in the project is on a purely temporary basis for the duration of the project only, and the appointed staff will have no claim for regular appointments in the University on the termination of the project. An undertaking shall be taken by the PI from the staff being appointed to the project.
- The staff employment/engagement in the projects will be governed by the same rules and conditions of service as applicable to temporary employees at the University from

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time-to-time, except in those projects where the conditions have been laid down by the sponsoring body.

- The leave or leave given to the staff under projects will be admissible to the same extent as it is admissible to other employees of the University, unless sponsors specify otherwise. The Principal Investigator will be competent to sanction leave to the extent admissible.
- The copy of the joining letter of the selected candidate should be countersigned by the Principal Investigator and sent to the office of Dean Research Studies/Grants Section. A copy of the joining letter may be retained by the Principal Investigator.

4.3.5 Settlement of Bills

- The payment of bills and clearance of accounts is one of the most important aspects of the smooth running of the project. If the Grants Section has a procedural objection to the bill, it will be sent back to PI in a week's time. Bills that are in order will be cleared, and payment shall be released through online or digital mode within three weeks of the submission of bills. If the bill is not settled within three weeks' time from the date of submission, PI shall report to the branch head.
- If any note-sheets or bills of purchase are sent to the Grant Section, the concerned branch shall acknowledge receipt of the note-sheets or bills.

4.3.6 Maintenance of Stock Registers

- Each project shall have a separate stock register for assets, consumables, and non-consumable articles.
- A separate account shall be opened with full details for each article.
- All entries in the stock register shall be signed by the Principal Investigator.
- Physical verification of stock shall be conducted at least once a year, and a report shall be sent to the Joint Registrar (Finance).
- Equipment purchased specifically will be the property of the University on the termination of the project, and stock shall be entered in the departmental stock register, clearly showing that the item or equipment has been purchased from the project. After the closure of the project, a copy of the handover or takeover, duly signed by the PI

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and Head of the Department, shall be submitted to the Joint Registrar for record and verification by the Audit.

4.4 Interim Progress and Accounts Reports for the Project

The PI shall prepare the progress report along with the settlement of accounts, which should be submitted to the Grants Section, who would verify it within a week of submission of accounts. The reports and accounts on verification shall be returned to the PI for onward transmission to the funding agency. Any minor discrepancy can be solved after going through the accounts again and solving it mutually. The reports and accounts shall be audited by an approved auditor of the University, and the same will be allocated by the internal audit section of the University.

4.5 Closure of the project

The closure of the project shall be done within six months of its completion. The final and technical report shall be prepared by the PI in accordance with the requirements of the funding agency and submitted to the Finance Branch for verification of financial aspects and the signature of the registrar before being forwarded to the funding agency (Annexure III).

4.5.1 Statement of Final Accounts

- The statement of final accounts showing year-wise expenditure and a list of articles (consumables and non-consumables) left over from the time of termination of the project and purchased out of the project funds shall be sent in triplicate to the Finance Officer in the prescribed Performa (Annexure III) and verified by the Internal Audit Officer of the University. These articles may be transferred to the stock register. In the event that the department does not want these articles, they will be auctioned following due procedure.
- The list of articles will be given to the Head of the Department for entering permanent assets in the stock register within four weeks of their submission. After making entries at respective pages in the stock register, these must be provided to the Finance Branch for an internal audit for further verification. It is mandatory for the department to enter

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all the entries on the proper pages and hand them over to the concerned person for research. If PI does not want to use them further, they are taken back to the stores.

- The PI and Head of the Department shall ensure that all pieces of equipment that are beyond repair are written off following due procedure. In the event of any missing item under this category, the cost to be recovered from PI (before issuing the No Dues Certificate) will be decided by the competent authority in consultation with the Head of the Department and Finance Officer.

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5. Collaboration and Community (R&DC-II)

5.1 Introduction

Research collaboration that emphasises cooperation between different researchers and research centres to achieve common aims and improve scientific production is the need of the hour. In order to create a vibrant and sustainable research ecosystem in HEI, it is suggested that collaboration be developed and strengthened at three levels:

- Intra-University Collaborations
- Inter-University Collaborations
- Community-Level Collaborations

5.1.1 Intra-University Collaborations

Intra-University research collaboration may provide opportunities for investigators to learn how approaches from complementary disciplines may be applied to existing problems and lead to the development of innovative solutions.

In order to accomplish this, the following guidelines shall be applicable:

- Creating a flexible research ecosystem with ample focus on multi- and transdisciplinary research studies. Across faculties, research boards shall be formulated to reflect appreciation of changing research paradigms.
- More emphasis is placed on the joint supervision of research candidates. Supervisors who can offer different yet complementary perspectives, knowledge, experience, and skills shall be motivated to work as joint supervisors.
- Enhanced ability to share and exchange resources. A mutually beneficial arrangement of sharing resources (humans, equipment, data, databases, research labs and sites, etc.) shall be focused upon.

5.1.2 Inter-University Collaborations

There is an urgent need for research collaborations among University departments and between universities and other research institutions and organisations, with a specific focus on facilitating and supporting the development of new research partnerships across disciplines

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with a vision of promoting the element of interdisciplinary/ transdisciplinary/ multidisciplinary research.

- More MOUs shall be in place among universities and research institutions. Researchers and faculty exchange programmes shall be emphasised. Resource sharing among institutions shall also be promoted.
- Joint research proposals among collaborating institutions shall be submitted to funding agencies.
- The colleges affiliated with a University or in proximity to the University shall be provided strategic support for developing research.

5.1.3 Community-Level Collaborations

Researchers can integrate community partnership, equity, and respect into their research practices. Community engagement leads to more equitable and applicable research. Suggested measures for community-level collaboration include:

- Inclusion of social and community representatives (NGOs, community-based organisations, representatives of PRIs, social activists, industry representatives, etc.) at different levels of HEI/ research bodies.
- Provision of allocating fixed credits for community-oriented practical work for coursework scholars.
- Seeking and acknowledging the inputs of community stakeholders at the time of designing and formulating a research proposal.

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6. Finance and Infrastructure (R&DC-III)

6.1 Finance

- The source of finance was proposed to be either the University of Jammu Research Fund, RUSA (Innovation and Research), a fee mobilised from Ph.D. students at the time of admission, or any other source, whichever is feasible.
- To identify potential sponsors from industry, academia, and research organisations for an effective partnership.
- To provide sufficient autonomy to the Principal Investigator to propagate research outcomes to stakeholders.
- In the initial phase, Rs. 50,000 can be provided to Assistant Professors and Rs. 1,00,000 to Associate Professors and Professors for research proposals as per the existing guidelines of the RUSA/ UoJRF/ any other grant.
- To serve as a nodal centre for ideation and conceptualisation of research topics and themes by organising workshops and training programmes.

All the existing guidelines for research and finance will be extended to the Research and Development Cell to accommodate the projects taken up by the University and any financial assistance to be given for these projects.

6.2 Infrastructure

- R&DC shall provide support for setting of research infrastructure in University.
- It shall develop an institutional research information system for preparing a database of in-house experts for consultancy and related services.
- It shall assist the departments in establishing research labs.
- It shall act as a liaison between interdepartmental exchanges of research setups and infrastructure.

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7. Product Development, Monitoring and Commercialisation

(R&DC-IV)

7.1 Introduction and Purpose


Higher educational institutions around the world are focusing on creating a knowledge economy through education, research, and innovation. The Product Development, Monitoring, and Commercialization (PDMC) aspect of the R&DC at the University of Jammu plays a crucial role in this endeavour by promoting research and innovation in various fields and ensuring that the institution's products of commercial importance are original and of high quality, and meet the academic integrity principles of the institution. The PDMC plays a critical role by promoting and cultivating new technologies, ideas, and inventions that may emerge from the academic community. It shall provide the necessary support to research teams to ensure that their research is conducted in a structured and comprehensive manner and has practical applications which can be commercialised. It shall also work towards creating an entrepreneurial culture in higher educational institutions to encourage the development of start-ups within the ethical guidelines set by the regulatory bodies to ensure that all research activities carried out are ethical and have no negative impact on society or the environment.

7.2 Guidelines

The following guidelines shall be followed for the development, monitoring, and commercialisation of products:

- **Identification of Potential Products:** To identify potential products that various departments could develop on their own or through a transdisciplinary or multidisciplinary collaborative approach.
- **Forming Product Development Teams:** To assemble teams comprising experts from different fields to develop identified products. The R&DC will assist in identifying experts and forming teams.
- **Conducting Market Research:** To conduct market research to identify the demand for developed products. The R&DC will provide the necessary support and guidance for conducting market research.

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- **Developing the Product:** Product development teams shall work together to develop the product. The R&DC will provide the necessary support and guidance for product development.
 - **Monitoring the Product:** To monitor the product to ensure that it meets desired objectives. The R&DC will provide the necessary support and guidance for monitoring the product.
 - **Commercialisation of the Product:** To explore various commercialisation options for the product. The R&DC will provide the necessary support and guidance for commercialising the product.

7.3 Product Development

Product development is a critical stage in the commercialisation process. It involves converting innovative ideas and research outcomes into marketable products or services that can generate revenues for the institution. It follows a structured approach to product development, focusing on identification of the market need, concept development, design and prototyping, testing and validation, and final product development. To establish a product development process, the faculty, students, and other stakeholders will be encouraged to carry out the following:

- **Idea Generation:** To invite novel ideas regarding developing new products, techniques, processes, services, technology, etc. under all the domains of sciences, humanities, languages, etc. To encourage and support faculty members and students to generate innovative ideas that can be converted into marketable products or services.
- **Idea Evaluation:** To scrutinise the proposals submitted by various departments and faculties after the evaluation process. The selection will be based on the feasibility of the proposal in terms of relevance to the stakeholders and community and potential for commercialisation.
- **Research and Development:** To facilitate such initiatives by providing necessary resources and infrastructure and connecting to mentors and experts required throughout the journey. The emphasis would be to encourage research in developing new

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techniques, processes, services, technology-based products, etc. for the benefit of society at large.

**** The product can be in the form, not limited to, professional services, literary works that are compiled or created, technology-based (software or hardware development), databases, novel computational methods and techniques, chemical, physical, or biological processes and innovations, circuits and systems, models, or any other form of new or innovative research concepts, methods, or systems.**

7.4 Monitoring

PDMC shall monitor the progress of the research activities carried out at the University of Jammu, its campuses, and affiliated colleges. It shall conduct regular reviews of the research projects to ensure that they are on track and have the potential to be commercialised. It shall also provide support to research teams in overcoming any challenges that they encounter during the research process.

Monitoring is an essential component of the product development and commercialisation process. PDMC shall establish a system for monitoring the progress of each project. This will include regular meetings to discuss the progress and challenges faced by the project team. It shall ensure that project timelines are met and the project remains within budget. It shall establish a monitoring system that tracks the performance of the products and services launched in the market. The robust monitoring of the progress of the research would be undertaken as follows:

- **Progress Monitoring:** To submit the progress report after every three months. The experts in the respective fields would conduct the review and internal evaluation of the ongoing research.
- **Quality Control:** To ensure that the product or service is following and adhering to the ethical practices and guidelines (if required). The experts will also oversee whether the quality standards are followed.
- **Continuous Improvement:** To analyse the necessary improvements to the product or service to enhance its performance in later stages after the objectives were met by the teams.

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7.5 Commercialisation

PDMC shall work towards commercialising the research products developed at the University of Jammu, its campuses, and affiliated colleges. The R&DC shall identify potential investors and industry partners to collaborate with to introduce the products to market. Additionally, the R&DC shall provide support and connect the research teams to experts and committees for protecting their intellectual property rights and filing for patents. The cell shall also work towards creating an entrepreneurial culture in higher educational institutions to encourage the development of startups.

Commercialisation is the process of taking a product or service to market, establishing its brand, and generating revenues. The PDMC shall establish a commercialisation process that includes the following steps:

- To establish networking with industries, government and private agencies, institutions, and universities within India and abroad.
- To work with networking partners to ensure that the developed product is launched successfully and meets the institution's financial goals.

PDMC shall work with the marketing team to ensure that the developed product is launched successfully and is properly commercialised. This involves developing a strategy for marketing, promotion, branding, and selling the products to the target market. The R&DC shall provide the necessary support to the marketing team, including product information, training, and technical support.

7.6 Compliance and Ethical Considerations

PDMC shall work with experts to comply with all relevant laws and regulations related to product development, monitoring, and commercialisation. It shall ensure that all research activities carried out at the University of Jammu are ethical and adhere to the guidelines set by the regulatory bodies. It shall also ensure that the research products developed have no negative impact on society or the environment.

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7.6.1 Review

PDMC shall periodically review its product development, monitoring, and commercialisation processes to ensure their continued effectiveness. It shall identify areas for improvement and implement the necessary changes to improve the process.

7.6.2 Training and Awareness

PDMC will conduct regular training sessions and awareness campaigns to ensure that all stakeholders involved in the product development, monitoring, and commercialisation process are informed and up-to-date.

7.7 Course of future action

- **Identification:** Novel ideas for research from all the departments of the University of Jammu and later from its campuses and affiliated colleges will be invited through circulars.
- **Constitution of Expert Committees:** Forming committees of experts from the relevant fields for screening the ideas and proposals for the necessary funding and resources required for ensuring outcome-based research.
- **Progress Evaluation:** Review, revision, and continuous evaluation of the project from time to time. At this stage, collaboration and cooperation from industrialists, scientists, the community, governments, farmers, etc. shall be sought.
- **Marketability:** The prototype or final product, service, technique, technology, process, etc. shall be marketed after complying with necessary legal and procedural formalities.



8. IPR, Legal and Ethical Matters (R&DC-V)

8.1 Introduction

Whereas it is expedient to protect and enforce intellectual property rights (IPR) in the University of Jammu, it is necessary to adopt an IPR policy that shall contribute to the promotion of technological innovation and the transfer and dissemination of technology, to the mutual advantage of University stakeholders and users of technological knowledge, in a manner conducive to the social and economic welfare of India, especially the University of Jammu, and to a balance of rights and obligations between the stakeholders and users. The University of Jammu hereby adopts and implements the University of Jammu Intellectual Property Rights Policy, subject to be reviewed from time to time.

The University of Jammu Stakeholders include the University of Jammu, as an institution; the Faculty of the University; research scientists from within the University or collaborators, visiting scientists, or guest faculty from other institutes or industries working in collaborative research; research scholars and officers working in the University; visiting research students from other institutes involved in collaborative and funded research; funding agencies; and industry partners.

8.1.1 Objectives

The IPR refers to a wide range of rights:

- Patents for inventions
- Copyrights for literary works (including a computer programme, artistic work, dramatic work, cinematic films, sound recordings, performer's rights, etc.)
- Trademarks, including service marks.
- Industrial Designs.
- Geographical Indications.
- Integrated Circuits.
- Plant Variety and Breeders Rights.
- Protection of biodiversity and traditional knowledge.

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The IPR enables the inventors and owners of the IPR (stakeholders) to earn recognition and financial benefit from their original creations. An intellectual property rights policy is the cornerstone of a knowledge-based economy and innovation, and for stakeholders, the University of Jammu Intellectual Property Rights Policy intends to achieve the following objectives:

- To generate awareness about IPR amongst the stakeholders of the University and society.
- To facilitate innovation and creativity in the areas of technology and research in the branch of studies undertaken at the University of Jammu by nurturing new ideas and ethical research.
- To protect intellectual property (IP) rights generated by stakeholders at the University of Jammu by modelling their creativity and innovation into IP rights.
- To lay down an efficient, fair, and transparent administrative process for ownership control, assignment of IP rights, and sharing of revenues generated by IP, created and owned by the stakeholders.
- To develop R&D solutions for the development of new products and processes through contract and collaborative research.
- To promote more collaborations between academia and industry through better clarity on IP regulations and IP licensing.
- To develop the mechanism for IP licenses, assignments, and profit sharing.
- To create a mechanism for the commercial viability of IP rights. The purpose of IP commercialisation is also to augment the financial self-sustenance goals of the University of Jammu and its research activities.
- To develop a scheme for promotional and economic avenues for faculty and researchers.
- To establish an IPR cell for supporting all innovation, creativity, and other related activities for students, research scholars, faculty members, and other stakeholders acting as the nodal agency for the University of Jammu for IPR Policy.

8.2 Ownership of IP and allocation of IP rights

8.2.1 Types of Support for Research


Ownership rights over IP generated at the University of Jammu vary according to the source of the grant and the resources used for the research leading to the generation of the IP. Hence, it is important to understand the different contexts in which IP may be generated within the University of Jammu, for example:

- The research undertaken by stakeholders in the normal course of their appointment or engagement with the University of Jammu uses substantial support from the University, including the research facilities and infrastructure available at the University.
- The research has been undertaken by stakeholders in the normal course of their appointment or engagement with the University, using incidental support from the University.
- The research has been undertaken by stakeholders with substantial support from an external source, including funding agencies and industry partners.

8.2.2 Research with 'Substantial Support and Incidental Support from the University of Jammu'

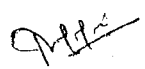
- All patents and inventions acquired or developed by the stakeholders by utilising the substantial/ incidental resources of the University of Jammu shall vest with the stakeholders depending upon the sharing agreements developed by the IPR Cell from time-to-time.
- All active pharmaceutical ingredients (APIs) extracted and developed by the stakeholders shall vest with the stakeholders depending upon the sharing agreements developed by the IPR Cell from time-to-time.
- All microorganisms, bacteria, viruses, etc. developed by the stakeholders shall vest with the stakeholders depending upon the sharing agreements developed by the IPR Cell from time-to-time.

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- The copyright in literary, dramatic, artistic, or musical works, cinematic work, and sound recordings by the stakeholders shall vest with the stakeholders depending upon the sharing agreements developed by the IPR Cell from time-to-time.
 - Copyright in any institutional materials, including course syllabi, curricula, exam questions, exam instructions, papers or reports, any lecture videos, or Massive Open Online Courses (MOOCs) specifically commissioned by the University of Jammu, shall vest with the University of Jammu.
 - The ownership rights over any other form of IP generated with substantial/ incidental support from the University, including but not limited to software, know-how, designs, plant varieties, and integrated circuits developed by the stakeholders, shall vest with the stakeholders depending upon the sharing agreements developed by the IPR Cell from time-to-time.
 - The stakeholder shall have a non-exclusive, royalty-free, irrevocable, and worldwide license to use the work for any purpose, including sharing it through open-access repositories, subject to the terms and conditions laid down by the IPR Cell of the University of Jammu.

8.2.3 Research with 'Substantial Support from External Partners'

- With regard to research conducted with substantial support from external partners, ownership of IP shall be determined as per the terms and conditions of the agreement signed between the stakeholders and the external partner. However, the stakeholder shall grant the University of Jammu and the funding agency, as the case may be, a non-exclusive, royalty-free, irrevocable, and worldwide license to use the work for any purpose, including sharing it through open-access repositories, subject to the terms and conditions laid down by the IPR Cell of the University of Jammu.
- In the absence of a specific agreement between the stakeholders and the external partner who is providing substantial research support, the stakeholders and external partner shall resolve the issue of joint ownership of IP by sharing the benefits in proportion to their relative contributions. However, in the event of commercialisation of these





research outputs, the revenue shall be shared with the stakeholders and external partners (as the case may be) as per the determination by the IPR Cell.

- The University of Jammu shall ensure, through a specific agreement with an external partner, that the copyright in any institutional materials, including course syllabi, curricula, papers or reports, any lecture videos, or Massive Open Online Courses (MOOCs) prepared under the specific instructions of the University shall vest with the University.

8.3 IP and consultancy assignments

The operation of all consultancy assignments shall be processed and administered centrally by the IPR Cell of the University of Jammu under the aegis of office of DRS. Any intellectual property arising from the consultancy project will be jointly owned by the University of Jammu and the consulting firm, depending upon the terms agreed upon by the parties.

8.4 IP rights sharing

The IP rights can be shared depending on the agreement between the various stakeholders based on licenses or assignments to be determined by the IPR Cell. Such licenses and assignments may include:

8.4.1 Exclusive Licensing and Assignments

The licensor or assignor licenses or assigns the IP solely to one licensee or assignee, all the rights concerning the IP applicable for specified terms and through the territory of India or abroad.

8.4.2 Non-Exclusive Licensing/Assignments

The licensor or assignor is permitted to enter into agreements with more than one entity for the use and exploitation of the IP on different terms and conditions dealing with different activities.

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8.4.3 Sub-Licensing/Assignments

This is applicable when a licensee or assignee wishes to further license or assign the IP to another party(s). Permissions pertaining to sub-licensing or assignment need to be explicitly clarified in the agreement between the stakeholders and the licensee(s) or assignee(s).

8.5 Entrepreneurship, Start-ups, and IPRs

To promote and encourage entrepreneurial activities by stakeholders, ownership of the IP rights within the ambit of the IPR policy may be assigned to startups for better marketability and commercial exploitation.

8.6 Confidentiality, Data protection and Privacy

All users of information, documents, and/or data within the University of Jammu must ensure that the same is always held securely and that all activities pertaining to such information, documents, and/or data will be kept confidential by the user(s) and will be used only for the purpose of such activities. The University of Jammu shall strive to protect the data and personal information against unauthorised access, loss, destruction, or breach. The IPR Cell shall formulate proper non-disclosure agreements with the user(s) in place to secure such confidential information, documents, and/or data.

Notwithstanding the above, any information that falls within one of the following shall not be treated as confidential information:

- already in the public domain;
- is required by law or regulation to be disclosed;
- is independently developed by the researcher, and
- is received from a third party having no obligations of confidentiality to the disclosing party.

8.7 IPR Cell

An IPR Cell of the University of Jammu shall be the interface between the stakeholders and the IP attorney to guide and help the faculty and students of the University of Jammu in developing and protecting the IPRs.

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8.7.1 Constitution of the IPR Cell

The IPR cell shall consist of the following:

- The Vice-Chancellor of the University of Jammu (Chairperson).
- Four (04) faculty members from the faculties of science, life sciences, medicine, and engineering (to be nominated by the Chairperson).
- Three (03) faculty members from the faculties of social sciences, arts and humanities, and law (to be nominated by the Chairperson).
- Three (03) experts from the fields of IPR and industry (to be nominated by the Chairperson).
- The Patent Officer.
- The Registrar or his nominee shall act as a member-secretary.
- The convener of the IPR cell shall be one of the senior-most faculty members (to be nominated by the Chairperson).

8.7.2 Role and Responsibilities of the IPR Cell

- To create awareness about IP rights among the stakeholders.
- To develop the scientific environment for conducive ethical research and innovation at the University of Jammu.
- To oversee the implementation of all recommendations and decisions pertaining to IP management at the University.
- To guide the University of Jammu with regard to entering into agreements relating to IPRs.
- To suggest changes in the IPR Policy or new policies as and when deemed necessary in tune with national and international law, policies, and treaties.
- To facilitate patent filing, copyrights, and other IPR registrations with proper agencies in India and abroad.
- To support the stakeholders in negotiating technology transfers.
- To develop the scheme for benefit sharing of the IPRs with the stakeholders and shall negotiate benefit-sharing agreements with the third parties.

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- To determine the terms of licenses and assignments and can assign all the rights to the startups of the University of Jammu for marketability and commercial exploitation.
- To enter into partnerships with the third party through MoUs, agreements, or any other arrangements for the conduct of research and innovation and the development of IPRs.
- To have its own funds allocated by the University of Jammu out of its resources for the proper implementation of the IPR Policy.
- To allocate funds from the IPR Cell Fund for the creation of IP rights by stakeholders.
- To help in creating awareness about different open initiatives like open access, open data, and open source software and help the stakeholders comply with the open access mandates of the government, funding agencies, and the University of Jammu.
- To keep proper records of all IP applications from the University of Jammu.
- While replying to applications under the Right to Information Act 2005 ("RTI Act"), IPR Cell may ensure that the novelty of the innovations (for the purpose of patent protection) shall not be defeated.
- In cases of allegations of infringements of IPRs by any researcher of the University of Jammu or any third party, the University of Jammu may refer the matter to the IPR Cell and seek its opinion on the appropriate course of action.
- In cases wherein any third party infringes upon the IPRs of the University of Jammu, the University shall seek the opinion of the IPR Cell on the appropriate action to be taken, and the IPR Cell may make recommendations to the Vice Chancellor for any legal course of action.
- To have all other ancillary powers in consonance with the objectives of the IPR Policy for effective implementation and management of IPRs at the University of Jammu.

8.7.3 Settlement of Disputes

The IPR Cell shall determine the disputes emerging out of the IPR Policy and IPR issues concerning the parties to the disputes through negotiation and mediation. The IPR disputes shall be governed by the IPR laws of India and the laws applicable in Jammu and Kashmir for the time being in force. All commercialisation agreements shall mention that the University of

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Jammu is protected and indemnified from all liability arising from the development and commercialisation of the IP.

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DEFINITIONS

For purposes of this policy, unless otherwise stated, the following definitions shall apply:

- “Academic Council” means the Academic Council of the University.
- “Affiliated college” means an institution imparting instruction up to the Bachelor’s degree excluding integrated Honours, Post-graduate and professional degree courses recognised by the University concerned in accordance with the provisions of the Act and the Statutes.
- “College” means an institution maintained or admitted to its privileges by the University concerned and includes a constituent college.
- “Constituent college” means an institution recognised as such by the Syndicate of the University concerned in accordance with the provisions of the Act and the Statutes.
- “Faculties”, “Boards of Studies”, “Board of Inspection” and “Boards of Research Studies” mean the “Faculties”, “Boards of Studies”, “Board of Inspection” and “Boards of Research Studies” of a University.
- “Head of the Department” means the head of a University Teaching Department who has the status of a Professor or an Associate Professor in the University and where any University has no teaching department in a subject, the senior most Professor in that subject in an affiliated or a constituent college.
- “Principal” means the head of a college.
- “Statutes” and “Regulations” mean respectively the Statutes and Regulations of a University made or continued under this Act.
- “Syndicate” means the Syndicate of a University.
- “Teacher” means a person giving instructions on behalf of a University, in the teaching department of a University, constituent or affiliated college, and includes a Principal, Professor, Associate Professor, Assistant Professor, Director of Physical Education, Director of the Bureau of Educational and Vocational Guidance and a teacher of Teachers’ Training College, and such member of staff of a University Library as the Syndicate of a University may declare to be a teacher.
- “University” means the University of Jammu, as the case may be;
- “University Council” means the University Council of a University.

ANNEXURES

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ANNEXURE- I

PROJECT PROPOSAL SUBMISSION FORM

1. Name of PI and Co-PI (if any):
2. Department & Faculty:
3. Name of the Funding Agency:
4. Title of the Project:
5. Tenure of the Project:
6. Projected Budget Estimate:
 - A. Non-Recurring
 - a. Equipment
 - b. Other Assets
 - c. Total Non-Recurring Grant
 - B. Recurring Grant
 - a. Manpower and salaries
 - b. Consumables
 - c. Contingency
 - d. Any other expense (please specify)
- Total Recurring Grant
- C. Overhead
- D. Total grant requested

Signatures of PI and Co-PI

Recommendation of Head, Director, or Rector:

PAH



Approved or Not Approved

Dean Research Studies

Note:

1. The faculty who has attained the age of 60 years (two years before the date of retirement) cannot submit a project proposal as PI; however, if he or she wishes to execute a project, he or she may submit the proposal as Co-PI, and the PI will be a regular faculty member of the University who is below 60 years of age. During the continuation of the project, when a PI attains the age of 62, all the documents, bills, utilisation certificates, etc. pertaining to his or her project should be signed by both the PI and the co-PI (permanent teacher of the department). The Co-PI will be responsible for all the assets, pending advances, and subsequent transactions under the project.
2. The PI should stop signing all the financial documents at least six months before the due date of his or her superannuation in order to facilitate the issuance of no-dues certificates to him or her.
3. No project proposal should be forwarded by the University to the funding agency if two or more tenure-expired projects are pending closure by the concerned PI.

Signature

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ANNEXURE- II

PROJECT INITIATION FORM

(Enclose 2 copies of the project proposals with this form)

1. Name of the Principal Investigator:
2. Designation:
3. Date of Birth:
4. Department, Centre, or Institute:
5. Name of the Co-Investigator:
6. Designation:
7. Date of Birth:
8. Department, Centre, or Institute:
9. Proposal approved by the University on:
10. Title of the Project:
11. Duration of the project:
 - From:
 - To:
12. Funding Agency:
13. Details of Funding Sanctioned:
 - A. Non-Recurring Grant
 - a. Equipment
 - b. Other Assets
 - c. Total Non-Recurring Grant
 - B. Recurring Grant
 - a. Manpower and salaries
 - b. Consumables
 - c. Contingency
 - Total Recurring Grant
- C. Overhead
- D. Total Grant Sanctioned

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15. Requirements from the University:

- a. Space
- b. Funding

We certify that no civil or electrical modifications shall be carried out without the permission of the University Engineering Department and DPC. We will follow the norms for the operation of projects framed from time to time by the Research Advisory Committee.

Signature of the Principal Investigator:

Date:

Signature of the Co-Investigator:

Date:

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ANNEXURE- III

**PROJECT CLOSURE FORM
(Submit 5 copies)**

Closure of the Terminated / Completed Project entitled:

The above noted project has terminated / completed on:

Details of the project:

- 1. Name of the Principal Investigator:**
- 2. Designation:**
- 3. Department/ Centre/ Institute:**
- 4. Name of the Co-Investigator:**
- 5. Designation:**
- 6. Department/ Centre/ Institute:**
- 7. Title of the Project:**
- 8. Duration of the Project**
 - Date of Commencement:
 - Date of Completion:
- 9. Funding Agency:**
- 10. Total funds received excluding overhead charges:**
- 11. Total overhead charges received**
- 12. Whether the final accounts of the completed projects for all the years have been submitted. If not, reasons thereof.**
- 13. Amount of the unspent balance:**
- 14. Whether the unspent balance is to be returned to the sponsoring body:**
- 15. Whether the certificate of no liability against the project to enable the University to refund the unspent balance. If any, to these sponsoring body is enclosed or not. If not, reasons thereof.**

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16. Whether the final Technical Report of the project for onward transmission to the sponsoring body, is enclosed or not, reasons thereof.

17. List of non-consumable articles:

S. No.	Item/s	Date of Purchase	Cost at the time of Purchase	Present Condition	Whether transferred to the Department (Details thereof)

18. Whether all the advances have been rendered and reconciled with the Finance office, if not, reason thereof.

Signature of the Principal Investigator:

Date:

Signature of the Co-Investigator:

Date:

Head of the Department / Director of Centre / Institute:

Signature:

Seal

Date:

General Financial Rules 2017 as amended from time-to-time should be strictly followed for procurement.

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भारतीय चिकित्सा पद्धति राष्ट्रीय आयोग

आयुष मंत्रालय, भारत सरकार

कार्यालय: 61-65, संस्थानिक क्षेत्र, जनकपुरी, डी ब्लॉक नई दिल्ली - 110058

National Commission for Indian System of Medicine

Ministry of Ayush, Govt. of India

Office: 61-65, Institutional Area, Janakpuri, D-Block New Delhi-110058

ANNEXURE - II
दूरभाष / Phone

समापति / Chairman: 28525156

सचिव / Secretary: 28525847

कार्यालय / Office: 28525464

पंजीयन / Registration: 28522519

फैक्स / Fax: 28520878

www.ncismindia.org

secretary@ncismindia.org

क्रमांक/ Ref. No.BOA/2-B/UG/2023

दिनांक/Dated: 18.07.2023

To,

1. Registrars of all Universities having faculty of ASU.
2. Principal/Dean/Directors of all ASU Colleges/Institute

Sir,

Subject: - Number of Attempts in University Examinations and duration of the course for students admitted under 2016 regulation - reg.

With reference to the subject mentioned above and, I am directed to inform you that Board of Ayurveda and Board of Unani, Siddha and Sowa-Rigpa are in receipt of various emails and representations from the BAMS and BUMS students belonging to various Ayurveda and Unani colleges regarding attempts in University examinations. In this matter please refer the following regulations:-

1. Clause 11 (l) of National Commission for Indian System of Medicine (Minimum Standards of Undergraduate Ayurveda Education) Regulations-2022 is as under:-

"Notwithstanding anything contained in these regulations,-

(i) Clause 11(e) respectively shall be applicable to the student who admitted under Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) Regulations, 1986, except electives and as per section 3 of SCHEDULE I (as amended vide notification no. 24-14/2016 (U.G. Regulation) Regulations, 2016) with 4 professionals.

(ii) Student who got admitted under Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) Regulations, 1986, the maximum number of chances and maximum period of years to pass respective professional examination as laid down under the clauses 6(1)(c), 2(f), 3(c), 4(d), and 4(e) of SCHEDULE I (as amended vide notification no. 24-14/2016 (U.G. Regulation) Regulations, 2016) shall not be applicable."

2. Clause 10 (l) of National Commission for Indian System of Medicine (Minimum Standards of Undergraduate Unani Education) Regulations-2022 is as under:-

"Notwithstanding anything contained in these regulations,-

(i) clause 10(e) shall be applicable to the student who got admitted under Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) Regulations, 1986, except electives and as per section 4 of SCHEDULE III (as amended vide notification no. 11-76/2016-Unani (U.G. Regl.) Regulations, 2016) with 4 professionals.

(ii) student who got admitted under Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) Regulations, 1986, the maximum number of chances and maximum period of years to pass respective professional examination as laid down under the clauses 7(1)(c), 2(c), 3(c), 4(c) and 4(d) of SCHEDULE III (as amended vide notification no. 11-76/2016-Unani (U.G. Regl.) Regulations, 2016) shall not be applicable to him


3. Clause 10 (l) of National Commission for Indian System of Medicine (Minimum Standards of Undergraduate Siddha Education) Regulations-2022 is as under:-

"Notwithstanding anything contained in these regulations,-

(i) clause 10(e) shall be applicable to the student who got admitted under Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) Regulations, 1986, except electives and as per section 3 of SCHEDULE II [as amended vide notification no. 18-12/2016 Siddha (Syllabus UG) Regulations, 2016] with 4 professionals.

(ii) student who got admitted under Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) Regulations, 1986, the maximum number of chances and maximum period of years to pass respective professional examination as laid down under the clauses 6(1)(c), 2(c), 3(c), 4(c) and 4(d) of SCHEDULE II [as amended vide notification no. 18-12/2016 Siddha (Syllabus UG) Regulations, 2016] shall not be applicable to him.

Therefore, by considering the above, it is directed to follow the concerned regulations and allow the students for the examinations as per the norms mentioned in the above regulations.


Prof. Dr. Narayan S. Jadhav
Secretary I/c, Member, BOER
(NCISM)

Copy to:-

1. Chairperson, National Commission for Indian System of Medicine, New Delhi-110058.
2. Secretary to the Govt. of India, Ministry of AYUSH, Ayush Bhawan, B-Block GPO Complex, INA, New Delhi 110023
3. The Education Policy Section (IM-1), Ministry of Ayush, Government of India, Ayush Bhawan, B-Block, GPO Complex, INA, New Delhi-110023, Email: ID ep1section-ayush@gov.in
4. Presidents of All Boards, NCISM
5. Guard file

Prof. Dr. Narayan S. Jadhav
Secretary I/c, Member, BOER
(NCISM)

Annexure - III

दूरभाष/Phone : 25367033, 25367035, 25367036
फैक्स/Fax : 0091-11-25367024
ई-मेल/E-mail : ug@nmc.org.in

पॉकेट-14, सेक्टर-8, द्वारका,
फेस-1, नई दिल्ली-77
Pocket- 14, Sector- 8, Dwarka,
Phase - 1, New Delhi-77

राष्ट्रीय आयुर्विज्ञान आयोग
National Medical Commission
(Undergraduate Medical Education Board)

No. U.14021/8/2023-UGMEB


Dated, the 01st August, 2023

**Subject: - Competency Based Medical Education Curriculum (CBME)
Guidelines- National Medical Commission.**

Under Graduate Medical Education Board invited comments on draft Competency Based Medical Education Guidelines vide Public Notice of even no. dated 23/06/2023.

2. After consideration of comments received, in exercise of powers conferred by the National Medical Commission Act, 2019 and particularly by sections 10, 24, 25, and 57 of the said Act, Under Graduate Medical Education Board publishes the Competency Based Medical Education Guidelines.

3. Guidelines shall be effective from the date of its publication i.e., 01/08/2023.


01/08/2023
(Shambhu Sharan Kumar)
Director, UGMEB

c. Skills

At the end of the course the student shall be able to:

- Conduct experiments designed for study of physiological phenomenon.
- Interpret experimental /investigative data.
- Distinguish between normal and abnormal data derived as a result of clinical examination and tests, which he has performed and observed in the laboratory.
- Recognize and get familiar with newer computerized and advanced instruments like medspiror, semen quality analyzer, EMG and TMT

d. Integration: The teaching should be aligned and integrated horizontally and vertically in organ systems in order to provide a context in which normal function can be correlated both with structure and with the biological basis, its clinical features, diagnosis and therapy.

3. BIOCHEMISTRY

a. Competencies:

The learner must demonstrate an understanding of:

- Biochemical and molecular processes involved in health and disease,
- Importance of nutrition in health and disease,
- Biochemical basis and rationale of clinical laboratory tests, and demonstrate ability to interpret these in the clinical context.

b. Broad subject specific objectives:

Knowledge:

At the end of the course, the student shall be able to

- Enlist and describe the cell organelles with their molecular and functional organization.
- Delineate structure, function and interrelationships of various biomolecules and consequences of deviation from the normal.
- Understand basic enzymology and emphasize on its clinical applications wherein regulation of enzymatic activity is disturbed.
- Describe digestion and assimilation of nutrients and consequences of malnutrition.
- Describe and integrate metabolic pathways of various biomolecules with their regulatory mechanisms.
- Explain the biochemical basis of inherited disorders with their associated sequelae.
- Describe mechanisms involved in maintenance of water, electrolyte and acid base balance and consequences of their imbalances.
- Outline the molecular mechanisms of gene expression and regulation, basic principles of biotechnology and their applications in medicine.

c. Skills

At the end of the course, the student shall be able to:

- Make use of conventional techniques / instruments to perform biochemical analysis relevant to clinical screening and diagnosis;
- Analyse and interpret investigative data;
- Demonstrate the skills of solving scientific and clinical problems and decision making.

d. Integration:

The teaching/learning programme should be integrated horizontally and vertically, as much as possible, to enable learners to make clinical correlations and to acquire an understanding of the cellular and molecular basis of health and disease.

2nd Professional Year:

4. PATHOLOGY

a. Competencies:

The undergraduate must demonstrate:

- Comprehension of the causes, evolution and mechanisms of diseases,
- Knowledge of alterations in gross and cellular morphology of organs in disease states,
- Ability to correlate the natural history, structural and functional changes with the clinical manifestations of diseases, their diagnosis and therapy,

b. Broad subject specific objectives

Knowledge:

At the end of one and half years, the student shall be able to:-

- Describe the structure and ultra structure of a sick cell, causes and mechanisms of cell injury, cell death and repair.
- Correlate structural and functional alterations in the sick cell.
- Explain the path physiological processes, which govern the maintenance of homeostasis, mechanisms of their disturbance and the morphological and clinical manifestation associated with it.
- Describe the mechanisms and patterns of tissue response to injury so as to appreciate the path physiology of disease processes and their application to clinical science.
- Correlate the gross and microscopic alterations of different organ systems in common disease to the extent needed for understanding disease processes and their clinical significance.
- Develop an understanding of steps in neoplastic changes in the body and their effects in order to appreciate need for early diagnosis and further management of neoplasia.
- Understand mechanisms of common hematological disorders and develop a logical approach in their diagnosis and management.
- Develop understanding of the blood banking, blood donors & transfusion of blood & blood products, (components).
- Understand pathophysiology of infectious diseases in relation with tissue changes.

- Describe the various immunological reactions in understanding the disease process & tissue transplant.
- Develop an understanding for genetic disorders.
- Understand the vital organ function test of Kidney, liver & thyroid.

c. Skills

At the end of one and half years, the student shall be able to:

- Describe the rationale and principles of routine technical procedures of the diagnostic laboratory tests & perform it.
- Interpret routine diagnostic laboratory tests and correlate with clinical, hematological and morphological changes.
- Perform the simple bed-side tests on blood, urine and other biological fluid samples.
- Draw a rational scheme of investigations aimed at diagnosing and managing the cases of common disorders.
- Able to understand the microscopic and macroscopic features of common diseases.
- Develop different type of skills such as observation skills, communication skill and presentation skill.
- Understand biochemical/physiological disturbances that occur as a result of disease in collaboration with all concerned departments.

d. **Integration:** The teaching should be aligned and integrated horizontally and vertically in organ systems recognizing deviations from normal structure and function and clinically correlated so as to provide an overall understanding of the etiology, mechanisms, laboratory diagnosis, and management of diseases.

5. MICROBIOLOGY

a. Competencies:

The undergraduate learner demonstrates:

- Understanding of role of microbial agents in health and disease,
- Understanding of the immunological mechanisms in health and disease,
- Ability to correlate the natural history, mechanisms and clinical manifestations of infectious diseases as they relate to the properties of microbial agents,
- Knowledge of the principles and application of infection control measures,
- An understanding of the basis of choice of laboratory diagnostic tests and their interpretation, antimicrobial therapy, control and prevention of infectious diseases.
- Knowledge of outbreak investigation and its control.

b. Broad subject specific objectives

At the end of the course the student will be able to :

- Explain how the different microorganisms can cause human infection.
- Understand commercial, opportunistic and pathogenic organisms and describe host parasite relationship.
- Describe the characteristics (morphology, cultural characteristics, resistance, virulence factors, incubation period, mode of transmission etc.) of different microorganisms.
- Explain the various defense mechanisms of the host against the microorganisms which can cause human infection.
- Describe the laboratory diagnosis of microorganisms causing human infections and disease.
- Describe the prophylaxis for the particular infecting microorganisms

c. Skills

At the end of the course the student shall be able to

- Plan the laboratory investigations for the diagnosis of infectious diseases.
- Perform laboratory procedures to arrive at the etiological diagnosis of infectious diseases caused by bacteria, fungi, viruses and parasites including the drug sensitivity profile.
- Perform and interpret immunological and serological tests.
- Operate routine and sophisticated instruments in the laboratory.
- Develop microteaching skills and Pedagogy
- Successfully implement the chosen research methodology

d. Integration: The teaching should be aligned and integrated horizontally and vertically in organ systems with emphasis on host-microbe-environment interactions and their alterations in disease and clinical correlations so as to provide an overall understanding of the etiological agents, their laboratory diagnosis and prevention.

6.

PHARMACOLOGY

a. Competencies: The undergraduate must demonstrate:

- Knowledge about essential and commonly used drugs and an understanding of the pharmacologic basis of therapeutics,
- Ability to select and prescribe medicines based on clinical condition and the pharmacologic properties; efficacy, safety, suitability and cost of medicines for common clinical conditions of national importance,
- Knowledge of pharmacovigilance, essential medicine concept and sources of drug information and industry-doctor relationship,
- Ability to counsel patients regarding appropriate use of prescribed drug and drug delivery systems.

b. Broad subject specific objectives

(A) Knowledge:

At the end of the course, the student shall be able to

- Describe the Pharmacokinetics and Pharmacodynamics of essential and commonly used drugs.
- Enlist the indications, contraindications, interactions and adverse reactions of commonly used drugs.
- Tailor the use of appropriate drugs in disease with consideration of its cost, efficacy and safety for-
 - a. Individual needs and
 - b. Mass therapy, under National Health Programs.
- Integrate the list of drugs of addiction and recommend the management of drug addiction.
- Explain pharmacological basis of prescribing drugs in special medical situations such as pregnancy, lactation, infancy, old age, renal damage, hepatic damage and immuno-compromised patients.
- Explain the concept of rational drug therapy in clinical pharmacology.
- State the principles underlying the concept of 'Essential Drugs'.
- Evaluate the ethics and modalities involved in the development and introduction of new drugs.

c. Skills

At the end of the course, the student shall be able to

- Prescribe drugs for common ailments.
- Identify adverse reactions and drug interactions of commonly used drugs.
- Interpret the data obtained from the experiments designed for the study of effect of drugs in various experimental and clinical studies.
- Analyze the information regarding common pharmaceutical preparations and critically evaluate drug formulations.
- Appraise the Principles of Clinical Pharmacy and Dispense the Medications giving proper instructions.

d. **Integration:** Practical knowledge of use of drugs in Clinical Practice will be acquired through Integrated Teaching, vertically with phase-1 subjects and horizontally with other phase 2 subjects.

3rd Professional year

7. FORENSIC MEDICINE AND TOXICOLOGY

a. **Competencies:** The learner must demonstrate:

- Understanding of medico-legal responsibilities of physicians in primary and secondary care settings,
- Understanding of the rational approach to the investigation of crime, based on scientific and legal principles,
- Ability to manage medical and legal issues in cases of poisoning /overdose,
- Understanding the medico-legal framework of medical practice and medical negligence,
- Understanding of codes of conduct and medical ethics,
- Understanding concept of deceased donor, brain death, and Human Organ Transplantation Act.

b. **Broad subject specific objectives:**

Knowledge: At the end of the course, the student shall be able to

- Identify the basic Medico-legal aspects of hospital and general practice.
- Define the Medico-legal responsibilities of a general physician while rendering community service either in a rural primary health centre or an urban health centre.

- Appreciate the physician's responsibilities in criminal matters and respect for the codes of Medical ethics.
- Diagnose, manage and identify legal aspect of common acute and chronic poisonings.
- Describe the Medico-legal aspects and findings of post-mortem examination in cases of death due to common unnatural conditions and poisonings.
- Detect occupational and environmental poisoning, prevention and epidemiology of common poisoning and their legal aspects particularly pertaining to Workmen's Compensation Act.
- Describe the general principles of analytical toxicology.

c. Skills

At the end of the course, the student shall be able to

- Make observations and draw logical inferences in order to initiate enquiries in criminal matters and Medico-legal problems and be able to -
- Carry on proper Medico-legal examination and documentation/Reporting of Injury and Age.
- Conduct examination for sexual offences and intoxication.
- Preserve relevant ancillary materials for medico-legal examination.
- Identify important post-mortem findings in common unnatural deaths.
- Diagnose and treat common emergencies in poisoning and chronic toxicity.
- Make observations and interpret findings at post-mortem examination.
- Observe the principles of medical ethics in the practice of his profession.

d. Integration:

The teaching should be aligned and integrated horizontally and vertically recognizing the importance of medico-legal, ethical and toxicological issues as they relate to the practice of medicine.

8. COMMUNITY MEDICINE

- a. Competencies: The undergraduate must demonstrate:

- Understanding of the concept of health and disease,
- Understanding of demography, population dynamics and disease burden in National and global context,
- Comprehension of principles of health economics and hospital management,
- Understanding of interventions to promote health and prevent diseases as envisioned in National and State Health Programmes.
- Understanding of physical, social, psychological, economic and environmental determinants of health and disease,
- Ability to recognize and manage common health problems including physical, emotional and social aspects at individual family and community level in the context of National Health Programmes,
- Ability to Implement and monitor National Health Programmes in the primary care setting,
- General knowledge about Organ and Tissue donation,
- Knowledge of maternal and child wellness as they apply to national health care priorities and programmes,
- Ability to recognize, investigate, report, plan and manage community health problems including malnutrition and emergencies.

b. Broad subject specific objectives:

Knowledge: At the end of the course the student shall be able.

- Explain the principles of sociology including demographic population dynamics.
- Identify social factors related to health, disease and disability in the context of urban and rural societies.
- Appreciate the impact of urbanization on health and disease.
- Observe and interpret the dynamic of community behaviors.

- Describe the elements of normal psychology and social psychology.
 - Observe the principles of practice of medicine in hospital and community settings.
 - Describe the health care delivery systems including rehabilitation of the disabled in the country.
 - Describe the National Health Programmes with particular emphasis on maternal and child health programmes, family welfare planning and population control.
 - Describe the epidemiological methods and techniques.
 - Outline the demographic pattern of the country and appreciate the roles of the individuals, family, community and socio-cultural milieu in health and disease.
 - Describe the health information systems.
 - Acquire, understand, integrate, apply and manage information in context to health care problems and health care delivery system in various communities, health care settings and hospitals.
 - Describe the principles and components of primary health care, National Rural Health Mission and the national health policies to achieve the goal of "Health for all" with regards to identify the environmental, bio-waste and occupational hazards and their control.
 - Describe the importance of water and sanitation in human health.
 - Describe the principles of health economics, health administration, health education in relation to community.
 - Critically analyze the problem (s) and apply his/her knowledge to solve the problem in holistic manner.
 - Describe and apply principles of prevention, promotion and maintenance of health.
- c. Skills: At the end of the course, the student shall be able to –
- Use the principles and practice of medicine in hospital and community settings and familiarization with elementary practices.
 - Use the Art of communication with patients including history taking and medico social work.

- Use epidemiology as a scientific tool to make rational decisions relevant to community and individual patient intervention.
- Organize health care services for vulnerable and disadvantaged groups.
- Organize health care services in case of calamities.
- Collect, analyze, interpret and present simple community and hospital base data.
- Diagnose and manage common health problems (including communicable and non-communicable diseases) and emergencies at the individual, family and community levels keeping in mind the existing health care resources and in the context of the prevailing socio-culture beliefs.
- Diagnose and manage common nutritional problems at the individual and community level.
- Plan, implement and evaluate a health education Programme with skill to use simple audio-visual aids.
- Interact with other members of the health care team and participate in the organization of health care services, health advocacy and implementation of national health programmes.
- Perform Administrative functions at health centers
- Observe the principles of medical ethics in the practice of his profession.

d. Integration:

Department shall adopt an integrated approach towards other clinical disciplines, public health services, NGOs, environmental sciences, social sciences, management, hospital administration, research, etc. to impart training to enable the graduate to work at all levels of health care. The teaching should be aligned and integrated horizontally and vertically in order to allow the learner to understand the impact of environment, society and national health priorities as they relate to the promotion of health and prevention and cure of disease.

9. OTO-RHINOLARYNGOLOGY (ENT)

a. **Competencies:** The learner must demonstrate:

- Knowledge of the common Otorhinolaryngological (ENT) emergencies and problems,
- Ability to recognize, diagnose and manage common ENT emergencies and problems in primary care setting,
- Ability to perform simple ENT procedures as applicable in a primary care setting,
- Ability to recognize hearing impairment and refer to the appropriate hearing impairment rehabilitation programme.

b. **Broad subject specific objectives:**

- **Knowledge:** At the end of the course, the student shall be able to :
- Describe the basic pathophysiology of common Ear, Nose & Throat (ENT) diseases & emergencies.
- Adopt the rational use of commonly used drugs keeping in mind their adverse reactions.
- Suggest common investigative procedures & their interpretation.

c. **Skills:** At the end of the course the student shall be able to

- Examination & Diagnose common ENT problems including pre-malignant & Malignant disorders of the Head & Neck.
- Manage ENT problems at first level of care & be able to refer whenever necessary.
- Assist / carry out minor ENT procedures like ear syringing, ear dressing, nasal packing.
- Assist in certain procedures such as tracheotomy, endoscopy & removal of foreign bodies.

d. **Integration:**

The teaching should be aligned and integrated horizontally and vertically in

order to allow the learner to understand the structural basis of ENT problems, their management and correlation with function, rehabilitation and quality of life. The undergraduate training ENT will provide an integrated approach towards other disciplines especially, neurosciences, ophthalmology & general surgery.

10. OPHTHALMOLOGY

a. **Competencies:** The student must demonstrate:

- Knowledge of common eye problems in the community
- Recognize, diagnose and manage common eye problems and identify indications for referral,
- Ability to recognize visual impairment and blindness in the community and implement national programmes as applicable in the primary care setting.

b. **Broad subject specific objectives**

Knowledge: At the end of the course, student shall have the knowledge of

- Common problems affecting the eye.
- Principles of management of major ophthalmic emergencies.
- Main systemic disease affecting the eye.
- Effects of local and systemic diseases on patient's vision and the necessary action required minimizing the sequelae of such diseases.
- Adverse drug reaction with special reference to ophthalmic manifestations.
- Magnitude of blindness in India and its main causes.
- National programme for control of blindness and its implementation at various levels.
- Eye care education for prevention of eye problems.
- Role of primary health center in organization of eye camps.

- Organization of primary health care and the functioning of the ophthalmic assistant.
- Integration of the national programme for control of blindness with the other national health programmes.
- Eye bank organization.

c. Skills

- Elicit a history pertinent to general health and ocular status.
- Assist in diagnostic procedures such as visual acuity testing, examination of eye, Schiottz tonometry, Staining of Corneal pathology, confrontation, perimetry, Subjective refraction including correction of Presbyopia and aphakia, direct ophthalmoscopy and conjunctival smear examination and Cover test.
- Diagnose and treat common problems affecting the eye.
- Interpret ophthalmic signs in relation to common systemic disorders.
- Assist/observe therapeutic procedures such as Subconjunctival injection, corneal conjunctival foreign body removal, carbolic cautery for corneal ulcers, Nasolacrimal duct syringing and tarsorrhaphy
- Provide first aid in major ophthalmic emergencies.
- Assist to organize community surveys for visual check-up.
- Assist to organize primary eye care service through primary health centers.
- Use effective means of communication with the public and individual to motivate for surgery in cataract and for eye donation.
- Establish rapport with his seniors, colleagues and paramedical workers, so as to effectively function as a member of the eye care team.

d. Integration:

The teaching should be aligned and integrated horizontally and vertically in order to allow the student to understand the structural basis of ophthalmologic problems, their management and correlation with function,

rehabilitation and quality of life.

3rd PROFESSIONAL YEAR PART - II

Medicine Allied Subjects:

11. GENERAL MEDICINE

a. **Competencies:** The student must demonstrate ability to do the following in relation to common medical problems of the adult in the community:

- Demonstrate understanding of the pathophysiologic basis, epidemiological profile, signs and symptoms of disease and their investigation and management,
- Competently interview and examine an adult patient and make a clinical diagnosis,
- Appropriately order and interpret laboratory tests,
- Initiate appropriate cost-effective treatment based on an understanding of the rational drug prescriptions, medical interventions required and preventive measures,
- Follow up of patients with medical problems and refer whenever required,
- Communicate effectively, educate and counsel the patient and family,
- Manage common medical emergencies and refer when required,
- Independently perform common medical procedures safely and understand patient safety issues.

b. **Broad subject specific objectives:**

Knowledge: At the end of the course, the student shall be able to:

- Diagnose common clinical disorders with special reference to infectious diseases,

nutritional disorders, tropical and environmental diseases;

- Outline various modes of management including drug therapeutics especially dosage, side effects, toxicity, interactions, indications and contra-indications;
- Propose diagnostic and investigative procedures and ability to interpret them;
- Provide first level management of acute emergencies promptly and efficiently and decide the timing and level of referral, if required;
- Recognize geriatric disorders and their management.

c. Skills

At the end of the course, the student shall be able to

- Develop clinical skills (history taking, clinical examination and other instruments of examination) to diagnose various common medical disorders and emergencies;
- Refer a patient to secondary and/or tertiary level of health care after having instituted primary care;
- Perform simple routine investigations like hemogram, stool, urine, sputum and biological fluid examinations;
- Assist the common bedside investigative procedure like pleural tap, Lumbar puncture, bone marrow aspiration/biopsy and liver biopsy.

d. Integration: The teaching should be aligned and integrated horizontally and vertically in order to provide sound biologic basis and incorporating the principles of general medicine into a holistic and comprehensive approach to the care of the patient. With other relevant academic inputs which provide scientific basis of clinical medicine e.g. anatomy, physiology, biochemistry, microbiology, pathology and pharmacology.

12. PEDIATRICS

a. Competencies: The student must demonstrate:

- Ability to assess and promote optimal growth, development and nutrition of children and adolescents and identify deviations from normal,
- Ability to recognize and provide emergency and routine ambulatory and First

Level Referral Unit care for neonates, infants, children and adolescents and refer as may be appropriate,

- Ability to perform procedures as indicated for children of all ages in the primary care setting,
- Ability to recognize children with special needs and refer appropriately,
- Ability to promote health and prevent diseases in children,
- Ability to participate in National Programmes related to child health and in conformation with the Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Strategy,
- Ability to communicate appropriately and effectively.

b. Broad subject specific objectives:

Knowledge:-At the end of the course, the students shall be able to:-

- Describe the normal Growth and Development during fetal life, Neonatal period, Childhood and Adolescence and the deviations thereof.
- Describe the common Pediatric disorders and emergencies in terms of Epidemiology, Etiopathogenesis, Clinical manifestations, Diagnosis and also describe the rational therapy and rehabilitation services.
- Workout age related requirements of calories, nutrients, fluids, dosages of drugs etc. in health and disease.
- Describe preventive strategies for common infectious disorders, Malnutrition, Genetic and Metabolic disorders, Poisonings, Accidents and Child abuse.
- Outline national programs related to child health including Immunization programs.

c. Skills

At the end of the course, the students shall be able to:-

- Take detailed Pediatric and Neonatal history and conduct an appropriate physical examination of children and neonates, make clinical diagnosis, conduct common

bedside investigative procedures, interpret common laboratory investigations, plan and institute therapy.

- Take anthropometric measurements, resuscitate newborn, prepare oral rehydration solution, perform tuberculin test, administer vaccines available under current National programs, perform venesection, start intravenous fluids and provide nasogastric feeding.
- Conduct diagnostic procedures such as lumbar puncture, liver and kidney biopsy, bone marrow aspiration, pleural and ascitic tap.
- Distinguish between normal Newborn babies and those requiring special care and institute early care to all newborn babies including care of preterm and low birth weight babies, provide correct guidance and counseling about breastfeeding and Complementary feeding.
- Provide ambulatory care to all not so sick children, identify indications for specialized/ inpatient care and ensure timely referral to those who require hospitalization.

d. Integration:

The teaching should be aligned and integrated horizontally and vertically in order to provide comprehensive care for neonates, infants, children and adolescents based on a sound knowledge of growth, development, disease and their clinical, social, emotional, psychological correlates in the context of national health priorities.

13. DERMATOLOGY

a. Competencies:

The undergraduate student must demonstrate:

- Understanding of the principles of diagnosis of diseases of the skin, hair, nail and mucosa,
- Ability to recognize, diagnose, order appropriate investigations and treat common diseases of the skin including leprosy in the primary care setting and refer as

appropriate,

- A syndromic approach to the recognition, diagnosis, prevention, counseling, testing and management of common sexually transmitted diseases including HIV based on national health priorities,
- Ability to recognize and treat emergencies including drug reactions and refer as appropriate.

b. Broad subject specific objectives:

Knowledge:

At the end of the course of Dermatology the student shall be able to :

- Demonstrate sound knowledge of common diseases, their clinical manifestations, including emergent situations and of investigative procedures to confirm their diagnosis
- Demonstrate comprehensive knowledge of various modes of therapy used in treatment of cutaneous, sexually transmitted diseases and leprosy
- Describe the mode of action of commonly used drugs, their doses, side effects/toxicity, indications and contra-indications and interactions
- Describe commonly used modes of management including the medical and surgical procedures available for the treatment of various diseases and to offer a comprehensive plan of management for a given disorder

c. Skills:

The student shall be able to

- Interview the patient, elicit relevant and correct information and describe the history in a chronological order:
- Conduct clinical examination, elicit and interpret physical findings and diagnose common disorders and emergencies.
- Demonstrate simple, routine investigative and laboratory procedures required for making the bed-side diagnosis, especially the examination of scrapings for fungus,

preparation of slit smears and staining for AFB for leprosy patients and for STD cases and take a skin biopsy for diagnostic purposes.

- Manage common diseases and recognizing the need for referral for specialized care, in case of inappropriateness of therapeutic response.

d. Integration:

The teaching should be aligned and integrated horizontally and vertically in order to emphasize the biologic basis of diseases of the skin, sexually transmitted diseases and leprosy

14. PSYCHIATRY

a. Competencies: The student must demonstrate:

Ability to promote mental health and mental hygiene,

- Knowledge of etiology (bio-psycho-social-environmental interactions), clinical features, diagnosis and management of common psychiatric disorders across all ages,
- Ability to recognize and manage common psychological and psychiatric disorders in a primary care setting, institute preliminary treatment in disorders difficult to manage, and refer appropriately,
- Ability to recognize alcohol/ substance abuse disorders and refer them to appropriate centers,
- Ability to assess risk for suicide and refer appropriately,
- Ability to recognize temperamental difficulties and personality disorders,
- Assess mental disability and rehabilitate appropriately,
- Understanding of National and State programmes that address mental health and welfare of patients and community.

b. Broad subject specific objectives:

Knowledge:

At the end of the course the student shall be able to:

- Understand the comprehensive nature & development of different aspects of normal human behavior like learning, memory, motivation, personality & intelligence
- Recognize differences between normal & abnormal behavior
- Classify psychiatric disorders
- Recognize clinical manifestations of the following common syndromes & plan their appropriate management of organic psychosis, functional psychosis, schizophrenia, affective disorders, neurotic disorders, personality disorders, psycho-physiological disorders, drug & alcohol dependence, psychiatric disorders of childhood & adolescence
- Describe rational use of different mode of therapy in psychiatric disorders.

c. Skills:

The student shall be able to:

- Interview the patient & understand different methods of communications in patient-doctor relationship
- Elicit detailed psychiatric case history & conduct clinical examination for assessment of mental status
- Define, elicit & interpret psychopathological symptoms & signs
- Diagnose & manage common psychiatric disorders
- Identify & manage common psychological reactions & psychiatric disorders in medical & surgical patients in clinical practice & in community setting

d. Integration:

The teaching should be aligned and integrated horizontally and vertically in order to allow the student to understand bio-psycho-social-environmental interactions that lead to diseases/ disorders for preventive, promotive, curative, rehabilitative services and medico-legal implications in the care of patients both in family and

community.

16. GENERAL SURGERY

a. Competencies:

The student must demonstrate:

- Understanding of the structural and functional basis, principles of diagnosis and management of common surgical problems in adults and children
- Ability to choose, calculate and administer appropriately intravenous fluids, electrolytes, blood and blood products based on the clinical condition
- Ability to apply the principles of asepsis, sterilization, disinfection, rational use of prophylaxis, therapeutic utilities of antibiotics and universal precautions in surgical practice
- Knowledge of common malignancies in India and their prevention, early detection and therapy
- Ability to perform common diagnostic and surgical procedures at the primary care level
- Ability to recognize, resuscitate, stabilize and provide Basic & Advanced Life Support to patients following trauma
- General knowledge about organ retrieval from deceased donor and living donor
- Ability to administer informed consent and counsel patient prior to surgical procedures,
- Commitment to advancement of quality and patient safety in surgical practice.

b. Broad subject specific objectives.

Knowledge:

At the end of course, the student should be able to:

- Describe aetiology, pathophysiology, principles of diagnosis and management of common surgical problems including emergencies in adult and children.
- Define indications and methods for fluid and electrolytes replacement therapy including blood transfusion.
- Define asepsis, disinfection and sterilization and recommend judicious use of antibiotics.
- Describe common malignancies in the country and their management including prevention.
- Enumerate different types of anaesthetic agents, their indications, contraindications, mode of administration, and side effects.

c. Skills

At the end of the course, the student should be able to:

- Diagnose common surgical conditions both acute and chronic, in adults and children.
- Plan various laboratory tests for surgical conditions and interpret the results.
- Identify and manage patients of hemorrhagic, septicaemia and other types of shock.
- Be able to maintain patent air-way and resuscitate.
- Monitor patient of head, chest, spinal and abdominal injuries, both in adults and children.
- Provide primary care for a patient of burns.
- Acquire principles of operative surgery including preoperative, operative and post operative care and monitoring.
- Treat open wound including preventive measures against tetanus and gas gangrene.

- Diagnose neonatal and pediatric surgical emergencies and provide sound primary care before referring the patient to secondary/tertiary centres.
- Identify congenital anomalies and refer them for appropriate management.

d. **Integration:** The teaching should be aligned and integrated horizontally and vertically in order to provide a sound biologic basis and a holistic approach to the care of the surgical patient.

- Apply knowledge of basic medical sciences and other relevant subjects to support understanding of various pathologies, facilitate examination of and intervention for the patients.
- To apply the principles of quality of health care, legal and ethical principles and regulations as recommended by Medical Council of India and WHO.

17. OBSTETRICS AND GYNAECOLOGY

a. Competencies:

The student must demonstrate ability to:

- Provide peri-conceptional counseling and antenatal care,
- Identify high-risk pregnancies and refer appropriately,
- Conduct normal deliveries, using safe delivery practices in the primary and secondary care settings,
- Prescribe drugs safely and appropriately in pregnancy and lactation,
- Diagnose complications of labor, institute primary care and refer in a timely manner,
- Perform early neonatal resuscitation,
- Provide postnatal care, including education in breast-feeding,
- Counsel and support couples in the correct choice of

contraception,

- Interpret test results of laboratory and radiological investigations as they apply to the care of the obstetric patient,
- Apply medico-legal principles as they apply to tubectomy, Medical Termination of Pregnancy (MTP), Pre-conception and Prenatal Diagnostic Techniques (PC PNDT Act) and other related Acts.
- Elicit a gynecologic history, perform appropriate physical and pelvic examinations and PAP smear in the primary care setting,
- Recognize, diagnose and manage common reproductive tract infections in the primary care setting,
- Recognize and diagnose common genital cancers and refer them appropriately.

b. Broad subject specific objectives

Knowledge

At the end of the course, the student shall be able to:

- Outline the anatomy, physiology and pathophysiology of the reproductive system and the common conditions affecting it.
- Diagnose normal pregnancy, labour, puerperium and manage the problems he is likely to encounter therein.
- List of leading causes of maternal and perinatal morbidity and mortality.
- Understand the principles of contraception and various techniques employed, methods of medical termination of pregnancy, sterilization and their complications.
- Identify the use, abuse and side effects of drugs in pregnancy, peri- menopausal and post menopausal periods.
- Describe the national programme of maternal and child health and family welfare and their implementation at various levels.

- Identify common gynecological diseases and describe principles of their management.
- State the indications, techniques and complications of surgeries like Caesarian section, laparotomy, abdominal and vaginal hysterectomy, Fothergill's operation and vacuum
- Aspiration for Medical Termination of pregnancy (MTP) and minor surgeries like EB, D and C, Cervical Biopsy and Cervical encirclage.

c. Skills

At the end of the course, the student should be able to

- Take proper history and writing a good case sheet
- Writing a good discharge summary, proper referral letter
- Examination of patient and arrival at a diagnosis
- Planning for investigation and treatment
- Community orientation, participation in community health promoting and preventing programmes
- Examine a pregnant woman, recognize high- risk pregnancies and make appropriate referrals.
- Conduct a normal delivery, plot and interpret partogram
- recognize complications and decision of referral, provide postnatal care,
- Resuscitate the newborn and recognize the congenital anomalies.
- Advise a couple on the use of various available contraceptive devices (student should see at least 5 Cu-T insertions and 5 cases of female sterilization operations.)
- Perform pelvic examination, diagnose and manage common. gynecological problems including early detection of genital malignancies.
- Make a vaginal cytological smear, perform a post coital test and wet vaginal smear examination for Trichomonas vaginalis, Moniliasis and gram stain for gonorrhoea, catheterization of urinary bladder
- Interpretation of data of investigations like biochemical, histopathological, radiological ultrasound etc.

d. Integration:

The teaching should be aligned and integrated horizontally and vertically in order

to provide comprehensive care for women in their reproductive years and beyond, based on a sound knowledge of structure, functions and disease and their clinical, social, emotional, psychological correlates in the context of national health priorities. The student shall be able to integrate clinical skills with other disciplines and bring about coordination of family welfare programme for the national goal of population control.

18. ORTHOPAEDICS (INCLUDING TRAUMA)

a. Competencies:

- The student must demonstrate:
- Ability to recognize and assess bone injuries, dislocation and poly-trauma and provide first contact care prior to appropriate referral,
- Knowledge of the medico-legal aspects of trauma,
- Ability to recognize and manage common infections of bone and joints in the primary care setting,
- Recognize common congenital, metabolic, neoplastic, degenerative and inflammatory bone diseases and refer appropriately,
- Ability to perform simple orthopedic techniques as applicable to a primary care setting,
- Ability to recommend rehabilitative services for common orthopaedic problems across all ages.

b. Broad subject specific objectives

Knowledge:

The student shall be able to understand:

- The principles, diagnosis and primary management and be able to give appropriate referral for further definitive management of bones and joint injuries.

- Osteogenesis, manifestation and diagnosis; primary management and give their referral for appropriate correction or rehabilitation of common musculoskeletal disorders including infections of bones and joints; congenital skeletal anomalies, metabolic bone diseases and neoplasm affecting bones.

c. Skills

At the end of the course, the student shall be able to:

- Detect soft tissue injuries such as sprains and strains.
- Detect common fractures of extremities.
- Deliver first aid measures for common fractures and sprains.
- Deliver emergency measures to poly trauma patients.
- Manage uncomplicated fractures of clavicle, forearm, phalanges etc.
- Use techniques of splinting such as application of Thomas splint, plaster slab and casts, immobilization by skin tractions etc.
- Learn indications for closed reductions, open reductions, internal fixation and external fixations of fracture.
- Manage common bone infection; learn indications for sequestration, amputation and corrective measures for bone deformities.
- Advice and counsel patient for rehabilitation for post traumatic, poliomyelitis, cerebral palsy and amputation.
- Be able to perform certain orthopedic skills, provide sound advice of skeletal and related conditions at primary or secondary health care level.

d. Integration:

The teaching should be aligned and integrated horizontally and vertically in order to allow the student to understand the structural basis of orthopedic problems, their management and correlation with function, rehabilitation and quality of life.

19. ANAESTHESIOLOGY

a. Competencies:



॥ आयुषं मंत्रालयं नूतन ॥

भारतीय चिकित्सा पद्धति राष्ट्रीय आयोग
आयुष मंत्रालय, भारत सरकार
कार्यालय: 61-65, संस्थानिक क्षेत्र, जानकपुरी, डी ब्लॉक नई दिल्ली -110058
National Commission for Indian System of Medicine
Ministry of Ayush, Govt. of India
Office: 61-65, Institutional Area, Janakpuri, D-Block New Delhi-110058

ANNEXURE - II
दूरभाष / Phone
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क्रमांक/ Ref. No. BOA/2-B/UG/2023

दिनांक/Dated: 18.07.2023

To,

1. Registrars of all Universities having faculty of ASU.
2. Principal/Dean/Directors of all ASU Colleges/Institute

Sir,

Subject: - Number of Attempts in University Examinations and duration of the course for students admitted under 2016 regulation - reg.

With reference to the subject mentioned above and, I am directed to inform you that Board of Ayurveda and Board of Unani, Siddha and Sowa-Rigpa are in receipt of various emails and representations from the BAMS and BUMS students belonging to various Ayurveda and Unani colleges regarding attempts in University examinations. In this matter please refer the following regulations:-

1. Clause 11 (i) of National Commission for Indian System of Medicine (Minimum Standards of Undergraduate Ayurveda Education) Regulations-2022 is as under:-

"Notwithstanding anything contained in these regulations,-

(i) Clause 11(e) respectively shall be applicable to the student who admitted under Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) Regulations, 1986, except electives and as per section 3 of SCHEDULE I (as amended vide notification no. 24-14/2016 (U.G. Regulation) Regulations, 2016) with 4 professionals.

(ii) Student who got admitted under Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) Regulations, 1986, the maximum number of chances and maximum period of years to pass respective professional examination as laid down under the clauses 6(1)(c), 2(e), 3(c), 4(d), and 4(e) of SCHEDULE I (as amended vide notification no. 24-14/2016 (U.G. Regulation) Regulations, 2016) shall not be applicable."

2. Clause 10 (i) of National Commission for Indian System of Medicine (Minimum Standards of Undergraduate Unani Education) Regulations-2022 is as under:-

"Notwithstanding anything contained in these regulations,-

(i) clause 10(e) shall be applicable to the student who got admitted under Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) Regulations, 1986, except electives and as per section 4 of SCHEDULE III (as amended vide notification no. 11-76/2016-Unani (U.G. Regl.) Regulations, 2016) with 4 professionals.