

**CURRICULUM FRAMEWORK AND CREDIT
SYSTEM FOR THE FOUR-YEAR
UNDERGRADUATE PROGRAMME (FYUGP)**

As per Provisions of NEP-2020
to be implemented from Academic Year 2022-23

For the State Universities of Jharkhand

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ABBREVIATIONS

NEP	New Education Policy
FYUGP	Four-Year Undergraduate Programme
UGC	University Grants Commission
CBCS	Choice Based Credits System
LOCF	Learning Outcomes based Curriculum Framework
HEIs	Higher Education Institutions
ABC	Academic Bank of Credit
UG	Under Graduate
CE	Controller of Examination
BOS	Board of Studies
GP	Grade Point
GPA	Grade Point Average
SGPA	Semester Grade Point Average
CGPA	Cumulative Grade Point Average
ESE	End Semester Examination
SIE	Semester Internal Examination
SIA	Semester Internal Assessment
FM	Full Marks
PM	Pass Marks
AI	Artificial Intelligence
CC	Common Courses
MIL	Modern Indian Language
NH	Non-Hindi
TRL	Tribal & Regional Language
IRC	Introductory Regular Courses
IVS	Introductory Vocational Studies
IAP	Internship/ Apprenticeship/ Project
VS	Vocational Studies
MJ	Major Disciplinary/Interdisciplinary Courses
MN	Minor Disciplinary/Interdisciplinary Courses
AMJ	Advance Major Disciplinary/Interdisciplinary Courses
RC	Research Courses
VSR	Vocational Studies associated with Research
NSS	National Service Scheme
NCC	National Cadet Corps

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Contents

S.No.		Page No.
	Members of State Level NEP Implementation Cell	1
	Abbreviations	2
	Contents	3
	Regulation for Choice Based Credit System (CBCS) as per NEP for Four Year Under Graduate Programme (FYUGP)	
1	Introduction	5
2	Transformative Initiatives for Four-Year Undergraduate Programme	5
3	Academic Credit Framework	6
4	Preamble	11
5	Objectives	12
6	Definitions	12
7	Applicability of CBCS and Grading System	14
8	Undergraduate Programme	14
9	Multiple Entry/ Exit Points:	14
10	Duration (Time Frame)	15
11	Selection Criteria for Admission	16
12	Eligibility Criteria to Pursue Undergraduate Courses	16
13	Choosing Programme/ Study Courses	16
14	Nature of Different Types of Courses in a Programme	19
15	Learning Assessment	21
16	Letter Grades and Grade Points	21
17	Cumulative Grade Point Average (CGPA)	22
18	Computation of SGPA and CGPA	23
19	Illustration of Computation of SGPA and CGPA	24
20	Validity of Registration	24
21	Evaluation of Learning Outcome	25
22	Calculation of Marks for the Purpose of Result	28
23	Promotion Criteria	28
24	Moderation (Grace Marks)	29
25	Ranking	29
26	Review	29

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Tables

Table 1	Credit Framework for Four Year Undergraduate Programme (FYUGP) under State Universities of Jharkhand [Total Credits = 176]	7
Table 2	Course structure for Undergraduate Certificate Programme [May Exit after Sem.-II]	8
Table 3	Course structure for Undergraduate Diploma Programme [May Exit after Sem.-IV]	8
Table 4	Course structure for Bachelor's Degree Programme [May Exit after Sem.-VI]	8
Table 5	Course structure for Bachelor's Degree with Hons./Research Programme	8
Table 6	Semester wise Course Code and Credit Points	9
Table 7	Grades and Grade Points	22
Table 8	Grades and Grade Points Conversion for Four Year Undergraduate Honours/ Research Programme	22
Table 9	Illustration for SGPA	24
Table 10	Illustration for CGPA	24
Table 11	Marks distribution pattern	26
Table 12	Full Marks (FM) & Pass Marks (PM) pattern for Subjects	28
Table 13	Full Marks (FM) & Pass Marks (PM) pattern for Language Communication Courses	28
Table 14	Full Marks (FM) & Credits pattern for Language Communication Courses	33
Table 15	Matrix option to select subject combination from Disciplinary/ Interdisciplinary programmes	39
Table 16	Option to select subject combination from Disciplinary/ Interdisciplinary programmes	41

Formats

Questions	Format of Question Paper for End Semester University Examination	30
Major	Format for Paper Title of Courses in Major	37
Minor	Format for Paper Title of Courses in Minor	38

Annexure-I

Syllabus Guidelines	Syllabus Guideline for Four Year Undergraduate Programme Implemented Under NEP	33
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Annexure-II

Choosing Programmes	Choosing Programme in the Four Year Undergraduate Programme Implemented Under NEP	39
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INTRODUCTION

The Choice Based Credit System (CBCS) implemented for the undergraduate programmes in the Jharkhand State needs to be revised for instilling innovation and flexibility in line with the National Education Policy (NEP) 2020. The HEIs of the state shall move to a criterion-based grading system for assessing student's achievement based on the learning goals for each programme. The state envisages the setting up of facilitative norms for multidisciplinary and holistic education across disciplines providing broad-based exposure to the students and sensitising them to the fundamentally interconnected nature of all human knowledge and enquiry. A new framework is required with cutting edge curriculum, creative combination of subjects, flexible options and multiple entry and exit options during the undergraduate course.

The present draft of Curriculum Framework and Credit System for the Four-Year Undergraduate Programme (FYUGP) for the State Universities of Jharkhand has been prepared as per the UGC draft curricular framework under the provisions of NEP-2020 and has been envisaged to be implemented from Academic Year 2022-23.

TRANSFORMATIVE INITIATIVES FOR FOUR-YEAR UNDERGRADUATE PROGRAMME

The curriculum framework of Four Year Under Graduate Programme (FYUGP) envisages several transformative initiatives in higher education in Jharkhand, in line with the revised UGC Guideline on the adoption of the Choice Based Credit System (CBCS) to implement NEP-2020. These include:

- Introducing holistic and multidisciplinary undergraduate education across the humanities, natural sciences, social sciences and commerce; would help develop all capacities of human beings- intellectual, aesthetic, social, physical, emotional, ethical and moral - in an integrated manner; soft skills, such as complex problem solving, critical thinking, creative thinking, communication skills; and rigorous specialization in a chosen field (s) of learning.
- Adoption of flexible curricular structures to enable creative combinations of disciplinary areas for study in multidisciplinary contexts that would also allow flexibility in course options that would be on offer to students, in addition to rigorous specialization in a subject or subject.
- Undergraduate degree programmes of either 3 or 4-year duration, with multiple entries and exit points and re-entry options within this period, with appropriate certifications such as:
 - a Certificate after completing 1 year (2 semesters) of study in the chosen fields of study,
 - a Diploma after 2 years (4 semesters) of study,
 - a Bachelor after a 3-year (6 semesters) programme of study,
 - a Bachelor (with Hons. / Research) after a 4-year (8 semesters) programme of study
- Inclusion in the curricula of credit-based courses and projects in the areas of community engagement and service, environmental studies and value-based education.



- Environment education to include areas such as climate change, pollution, waste management, sanitation, conservation of biological diversity, management of biological resources and biodiversity, forest and wildlife conservation, and sustainable development and living.
- Value-based education to include the development of humanistic, ethical, Constitutional, and universal human values of truth, righteous conduct, peace, love, nonviolence, scientific temper, citizenship values, and life skills.
- Lessons in service and participation in community service programmes to be an integral part of holistic education.
- Global Citizenship Education and education for sustainable development to form an integral part of the curriculum to empower learners to become aware of and understand global and sustainable development issues and to become active promoters of more peaceful, tolerant, inclusive, secure, and sustainable societies.
- Students to be provided with opportunities for internships with local industry, businesses, artists, crafts persons, etc., as well as research internships with faculty and researchers at their own or other HEIs/research institutions, so that students may actively engage with the practical side of their learning and, as a by-product, further improve their employability.
- Reorienting teaching programmes to ensure the development of capabilities across a range of disciplines including sciences, social sciences, arts, humanities, languages, as well as vocational subjects. This would involve offering programmes/courses of study relating to Languages, Literature, Music, Philosophy, Art, Dance, Theatre, Statistics, Pure and Applied Sciences, Sports etc., and other such subjects needed for a multidisciplinary and stimulating learning environment.
- Preparing professionals in cutting-edge areas that are fast gaining prominence, such as Artificial Intelligence (AI), 3-D machining, big data analysis, and machine learning, in addition to genomic studies, biotechnology, nanotechnology, neuroscience, with important applications to health, environment, and sustainable living that will be woven into undergraduate education for enhancing the employability of the youth.

ACADEMIC CREDIT FRAMEWORK

The workload relating to a course is measured in terms of credit hours. A credit is a unit by which the course work is measured. It determines the number of hours of instruction required per week for the duration of a semester (15-16 weeks). One credit is equivalent to 15 hours of teaching/ lecture or 30 hours of practical or fieldwork or community engagement and service per semester. One credit involves 30 hours of out-of-class activities such as preparation for classes/ lessons, completing assignments which form a part of the course work, independent reading, study per semester and 15 hours of out-of-class activities per semester for practicum.

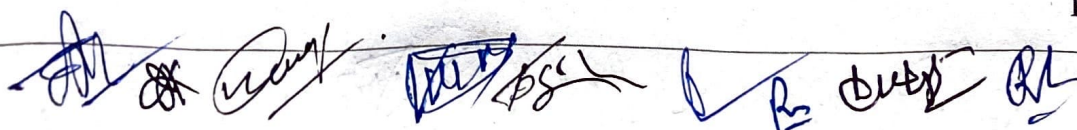


Table 1: Credit Framework for Four Year Undergraduate Programme (FYUGP) under State Universities of Jharkhand [Total Credits = 176]

Semester	Common Courses (29)										Introductory Courses (15)			Internship/ Project (4)	Major* (54) + Adv. Major (24)		Minor** (32)		Research Courses (18)				Total Credit
	Skills (Modern Indian Language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)	Introductory Courses [Natural Sc./ Humanities/ Social Sc./ Commerce] (9)	Introductory Course [Vocational Studies] (6)	Major* (54) + Adv. Major (24)			Natural Sc./ Humanities/ Social Sc./ Commerce (18)	Vocational Studies (14)	Research Methodology Courses (6)	Research Proposal, Review of literature (4)	Research Internship/ Field Work (4)	Preparation of the Research Project Report (4)			
I	2	3	4	5	6	7	8				9	10	11	14	15	16	17	18	19	20	21	176	
II	6			2	2				3	3	3	3	6								22		
Exit Point: Undergraduate Certificate																							
III				3		3			3		3	4	6								22		
IV													6+6	6	4						22		
Exit Point: Undergraduate Diploma																							
V													6+6	6	4						22		
VI													6+6	6	4						22		
Exit Point: Bachelor's Degree																							
VII													6+6 (Adv. Topics)			6	4				22		
VIII													6+6 (Adv. Topics)		2			4	4		22		
Exit Point: Bachelor's Degree with Hons./Research																							

*There will be four disciplinary areas: A-Natural Science, B-Humanities, C-Social Science, and D-Commerce; each having basket of courses. A student will have to select a 'Major' from any of the four disciplinary areas (out of A, B, C & D). The selection for admission will be primarily based on availability of seats in Major and marks imposed by the institution.
 ** A student has to select three subjects for 'Introductory Regular Courses' from a pool of subjects associated with the Major offered by the institution. One of the three subjects will continue as 'Minor' from semester IV onwards, based on the academic interest and performance of the student.



Table 2: Course structure for Undergraduate Certificate Programme [May Exit after Sem.-II]

Semester	Common Courses			Introductory Courses		Major	Total Credits
Sem.-I	LCS (MIL/TRL) (6 Credits)	Understanding India (2 Credits)	Health & Wellness, Yoga Education, Sports & Fitness (2 Credits)	IRC-1 (3 Credits)	IVS-1A (3 Credits)	MJ-1 (6 Credits)	(22)
Sem.-II	LCS (English) (6 Credits)	Global Citizenship Education (2 Credits)	Mathematical & Computational Thinking (2 Credits)	IRC-2 (3 Credits)	IVS-1B (3 Credits)	MJ-2 (6 Credits)	(22)

Total = 44 Credits

(LCS: Language and Communication Skills; MIL: Modern Indian Languages; TRL: Tribal Regional Languages;

IRC: Introductory Regular Courses; IVS: Introductory Vocational Studies, MJ: Major)

Table 3: Course structure for Undergraduate Diploma Programme [May Exit after Sem.-IV]

Semester	Common Courses			Introductory Courses	Major	Minor	Internship/ Project	Vocational	Total Credits
Sem.-III	Environmental Studies (3 Credits)	Community Engagement/ NCC/NSS (3 Credits)	Digital Education (3 Credits)	IRC-3 (3 Credits)	MJ-3 (6 Credits)		Internship/ Project (4 Credits)		(22)
Sem.-IV					MJ-4, MJ-5 (6+6=12 Credits)	MN-1 (6 Credits)		VS-1 (4 Credits)	(22)

Total = 88 Credits

(MN: Minor; VS: Vocational Studies)

Table 4: Course structure for Bachelor's Degree Programme

[May Exit after Sem.-VI]

Semester	Major Courses	Minor Courses	Vocational	Total Credits
Sem.-V	MJ-6, MJ-7 (6+6= 12 Credits)	MN-2 (6 Credits)	VS-2 (4 Credits)	(22)
Sem.-VI	MJ-8, MJ-9 (6+6= 12 Credits)	MN-3 (6 Credits)	VS-3 (4 Credits)	(22)

Total = 132 Credits

Table 5: Course structure for Bachelor's Degree with Hons./Research Programme

Semester	Advance Courses	Research Courses	Vocational	Total Credit
Sem.-VII	AMJ-1, AMJ-2 (6+6=12 Credits)	Research Methodology (6 Credits)	Research Proposal (4 Credits)	(22)
Sem.-VIII	AMJ-3, AMJ-4 (6+6=12 Credits)	Research Int./Field Work (4 Credits)	Research Report (4 Credits)	VSR (2 Credits) (22)

Total = 176 Credits

(AMJ: Advance Major; VSR: Vocational Studies associated with Research)

COURSES OF STUDY FOR FOUR YEAR UNDERGRADUATE PROGRAMME 2022 onwards

Table 6: Semester wise Course Code and Credit Points:

Semester	Common, Introductory, Major, Minor, Vocational & Internship Courses		
	Code	Papers	Credits
I	CC-1	Language and Communication Skills (Modern Indian language including TRL)	6
	CC-2	Understanding India	2
	CC-3	Health & Wellness, Yoga Education, Sports & Fitness	2
	IRC-1	Introductory Regular Course-1	3
	IVS-1A	Introductory Vocational Studies-1	3
	MJ-1	Major paper 1 (Disciplinary/Interdisciplinary Major)	6
II	CC-4	Language and Communication Skills (English)	6
	CC-5	Mathematical & Computation Thinking Analysis	2
	CC-6	Global Citizenship Education & Education for Sustainable Development	2
	IRC-2	Introductory Regular Course-2	3
	IVS-1B	Introductory Vocational Studies-2	3
	MJ-2	Major paper 2 (Disciplinary/Interdisciplinary Major)	6
III	CC-7	Environmental Studies	3
	CC-8	Digital Education (Elementary Computer Applications)	3
	CC-9	Community Engagement & Service (NSS/ NCC/ Adult Education)	3
	IRC-3	Introductory Regular Course-3	3
	IAP	Internship/Apprenticeship/ Project	4
	MJ-3	Major paper 3 (Disciplinary/Interdisciplinary Major)	6
IV	MJ-4	Major paper 4 (Disciplinary/Interdisciplinary Major)	6
	MJ-5	Major paper 5 (Disciplinary/Interdisciplinary Major)	6
	MN-1	Minor Paper 1 (Disciplinary/Interdisciplinary Minor)	6

	VS-1	Vocational Studies-1 (Minor)	4
V	MJ-6	Major paper 6 (Disciplinary/Interdisciplinary Major)	6
	MJ-7	Major paper 7 (Disciplinary/Interdisciplinary Major)	6
	MN-2	Minor Paper 2 (Disciplinary/Interdisciplinary Minor)	6
	VS-2	Vocational Studies 2 (Minor)	4
VI	MJ-8	Major paper 8 (Disciplinary/Interdisciplinary Major)	6
	MJ-9	Major paper 9 (Disciplinary/Interdisciplinary Major)	6
	MN-3	Minor Paper 3 (Disciplinary/Interdisciplinary Minor)	6
	VS-3	Vocational Studies 3 (Minor)	4
VII	AMJ-1	Advance Major paper 1 (Disciplinary/Interdisciplinary Major)	6
	AMJ-2	Advance Major paper 2 (Disciplinary/Interdisciplinary Major)	6
	RC-1	Research Methodology	6
	RC-2	Research Proposal	4
VIII	AMJ-3	Advance Major paper 3 (Disciplinary/Interdisciplinary Major)	6
	AMJ-4	Advance Major paper 4 (Disciplinary/Interdisciplinary Major)	6
	RC-3	Research Internship/Field Work	4
	RC-4	Research Report	4
	VSR	Vocational Studies (Associated with Research)	2
		Total Credit	176

Abbreviations:

- CC Common Courses
 IRC Introductory Regular Courses
 IVS Introductory Vocational Studies
 IAP Internship/Apprenticeship/ Project
 VS Vocational Studies
 MJ Major Disciplinary/Interdisciplinary Courses
 MN Minor Disciplinary/Interdisciplinary Courses
 AMJ Advance Major Disciplinary/Interdisciplinary Courses
 RC Research Courses
 VSR Vocational Studies associated with Research

DRAFT REGULATION FOR FOUR YEAR UNDERGRADUATE CHOICE BASED CREDIT SYSTEM (CBCS) PROGRAMME FOR STATE UNIVERSITIES OF JHARKHAND

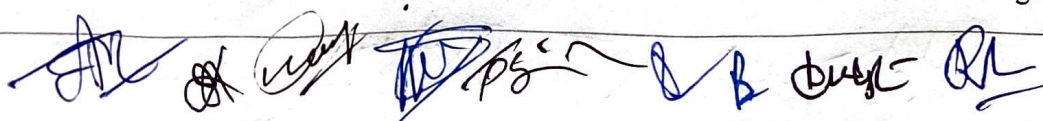
1. PREAMBLE:

India has a rich tradition of the multidisciplinary approach since ages, as exemplified by the ancient institutions such as Nalanda and Takshashila. These higher learning centres of ancient India were known for teaching every branch of knowledge, such as singing, painting, chemistry, mathematics; vocational fields such as carpentry, clothes-making; professional fields such as medicine and engineering; and soft skills such as communication discussion and debate. Over the centuries the broader learning opportunities got narrowed, and gradually, in recent years the focus moved to specialization in particular subjects resulting in the growth of single-stream institutions. To reboot the legacy of multidisciplinary education, the National Education Policy 2020 (NEP 2020), suggests several policy directions for offering multidisciplinary education.

The University Grants Commission (UGC) has initiated several measures to bring equity, efficiency and excellence to the Higher Education System of the country. The important measures taken to enhance academic standards and quality in higher education include innovation and improvements in curriculum, teaching-learning process, examination and evaluation systems, besides governance and other matters. The UGC has formulated various regulations and guidelines from time to time to improve the higher education system and maintain minimum standards and quality across the Higher Educational Institutions (HEIs) in India.

The academic reforms recommended by the UGC in the recent past have led to the overall improvement in the higher education system. However, due to a lot of diversity in the system of higher education, there are multiple approaches followed by universities towards examination, evaluation and grading systems. Presently the performance of the students is reported using the conventional system of marks secured in the examinations or grades or both. The conversion from marks to letter grades and the letter grades used vary widely across the HEIs in the country. This creates difficulty for the academia and the employers to understand and infer the performance of the students graduating from different universities and colleges based on grades.

The grading system is considered to be better than the conventional marks system and hence it has been followed by the top institutions in India and abroad. So, it is desirable to introduce a uniform grading system. This will facilitate student mobility across institutions within and countries and also enable potential employers to assess the performance of students. To bring in the desired uniformity, in the grading system and method for computing the cumulative grade point average (CGPA) based on the performance of students in the examinations, the UGC has formulated guidelines and is being incorporated by the State Universities of Jharkhand with modifications, considerations of the need and resources of the state.



2. OBJECTIVES:

The Revised Choice Based Credit System (FYUGP) has the following objectives:

- i. To make the course curriculum learner-centric
- ii. To encourage inter-disciplinary without disturbing the domain-centric knowledge
- iii. To promote mobility of students and help in optimizing learning
- iv. To allow autonomy to the teachers with built-in accountability.
- v. Continuous evaluation of students to help in optimizing learning
- vi. To introduce transparency in the evaluation system.
- vii. To improve employability among students.

3. DEFINITIONS:

- i. **Academic Year:** Two consecutive (one odd + one even) semesters constitute one academic year.
- ii. **Academic Calendar:** An Academic Calendar will be prepared by the university to maintain uniformity in the CBCS of the UG Honours Programmes, UG Programmes, semesters and courses in the college run under the university (Constituent /Affiliated).
- iii. **Semester:** The odd semester is scheduled from July to December and the even semester is from January to June. Each week has a minimum of 40 working hours spread over 6 days.

An academic year comprising 180 working days in the least is divided into two semesters, each semester having at least 90 working days. With six working days in a week, this would mean that each semester will have $90 / 6 = 15$ teaching/ working weeks. Each working week will have 40 hours of instructional time. Each teaching day has 6.5 teaching/ working hours and each semester will have $40 \times 15 = 600$ teaching hours available for each student.

Each semester will include – Admission, course work, conduct of examination and declaration of results including semester break.

- iv. **Summer term:** A summer term is for eight weeks, and summer term courses may be offered on a fast-track mode to enable students to complete arrears courses. The HEI can decide on the kind of courses to be offered in the summer term.
- v. **Choice Based Credit System (CBCS):** CBCS provides choices for students to select from the prescribed Programme.
- vi. **Programmes:**

An undergraduate programme leading to the Undergraduate Certificate/ Undergraduate Diploma/ Bachelor's Degree/ Bachelor's Degree with Hons. / Research



vii. **Courses:**

- a) A course is a structured set of instructions that are imparted to a student based on a syllabus or a framework decided beforehand (and has the sanction of the different academic (Board of Studies, Faculty, Academic Council) and executive (Syndicate/ Senate) bodies of the University extended over a semester.
- b) Each course is designed variously under instructions given as Lectures, Tutorials, and Practical (laboratory and field exercises). Usually, these components are referred to as *L*, *T*, and *P* components. The credits for each course determine the volume of the course content.
- c) **Allowed Course Combinations:** The Board of Studies (BOS) may revise subject combinations from time to time.

The BOS may add or delete subjects in the combination of subjects. Each **UG Hons/Research Programme** shall be designed as **176 credits**, a full-time undergraduate degree programme delivered in **Eight (08) Semesters**.

viii. **Credit:** The term 'credit' refers to the weightage given to a course, usually in terms of the number of instructional hours per week assigned to it. This explains why usually 'credit' is taken to mean 'credit hours'. The credits also determine the volume of course contents and delivery of the programme such as lectures tutorials, practicals, assignments etc. Term Credit has a connotation of achievement or earning through learning effort.

- a. It also implies successful completion of a course of the study measured in terms of classroom instruction hours/week in the courses being studied in that semester. It also implies learning effort required on the part of the learner.
- b. For credit determination, instruction is divided into two major components:
 - Lectures (L)** – Classroom lectures of one-hour duration.
 - Practical (P)** – Laboratory or field exercises in which the student has to do experiments or other practical work of two-hour duration.
- c. All courses needed not to carry the same weight. The course should define learning objectives and learning outcomes. A Course is designed to comprise lecture/ tutorials/ laboratory work/ fieldwork/ project work/ viva/ seminars/ assignments/ presentations etc. or a combination of some of these
- d. **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One hour of teaching/ lecture or two hours of laboratory /practical work will be assigned per class/interaction.

One credit = 15 Hours of Teaching i.e., 15 Credit Hours

One credit = 30 Hours of Practical work & 15 Hours of Preparatory works



4. APPLICABILITY OF CBCS AND GRADING SYSTEM

- i. The Regulation herein specified applies to all full-time undergraduate Programmes under the Revised Choice Based Credit System in Four-Year Undergraduate Programme (FYUGP) by the State Universities of Jharkhand hereinafter referred to as the University.
- ii. The College imparting undergraduate teaching, hereinafter, shall be referred to as College.

5. UNDERGRADUATE PROGRAMME

- i. The University is offering several undergraduate courses in its different constituent and affiliated colleges for the award of the degree for Certificate after one year, Diploma after two years, Bachelor degree after three years and Bachelor degree (with Hons./Research) after four years. Programmes shall have option of entry and exit after every two semesters.
- ii. A participant of the programme is a student who registers himself/ herself with the University for a Course of study and attends the same.
- iii. A full-time programme is a programme where the participants study as per the schedule and are not employed.

6. MULTIPLE ENTRY/ EXIT POINTS:

Level 5: Undergraduate Certificate: Entry will be based on the Certificate obtained after successful completion of Grade 12 or equivalent stage of education and the marks/grade imposed by the institution. The Undergraduate Certificate will be awarded to the student seeking exit after the successful completion of two-semesters with courses of 44 credits.

Level 6: Undergraduate Diploma: Continuation of study or lateral entry in the second year of the undergraduate programme will be possible for those who have met the entrance requirements, including attainment of prescribed levels as specified in the programme. The continuation of the study will be based on the evaluation of documentary evidences (including the academic record and/or evidence relating to the assessment and certification of prior learning) of the applicant's ability to pursue an undergraduate programme of study. The Undergraduate Diploma will be awarded to the student seeking exit after the successful completion of four-semesters with courses of 88 credits.

Level 7: Bachelor's Degree: Continuation of study or lateral entry in the third year (fifth semester) of the undergraduate programme will be possible for those who have met the entrance requirements, including attainment of prescribed levels as specified in the programme. The continuation of the study will be based on the evaluation of documentary evidences (including the academic record



and/or evidence relating to the assessment and certification of prior) of the applicant's ability to pursue an undergraduate programme of study. The Bachelor's Degree will be awarded to the student seeking exit after the successful completion of Six-semesters with courses of 132 credits.

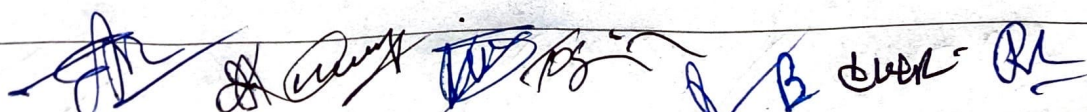
Level 8: Bachelor's Degree with Hons./Research: An individual seeking admission/ continuation to the Bachelor's Degree with Honours/ Research in a specified field of learning should have completed all requirements of the relevant 3-year Bachelor's degree with a minimum CGPA of 7.5, will be allowed to enter the fourth year of the undergraduate programme.

Lateral Entry

- a. There will be a lateral entry of the students only in semesters III and V.
- b. Provided that he/she must have cleared the specified credits of all the courses of previous semesters.
- c. The master content of the syllabus studied previously must be equivalent and there should not be variation in the syllabus more than 30%.
- d. Lateral entry into the programme of study in the third or fifth semester of the undergraduate programme will be based on the validation of prior learning outcomes achieved, including those achieved outside of formal learning or through learning and training in the workplace or in the community, or through continuing professional development activities, or through independent/self-directed learning activities evaluated by the norms and parameter decided by the university.

7. DURATION (TIME FRAME)

- i. The UG programme for a regular student shall be for a period of four years with multiple entry and multiple exit options.
- ii. Each academic year shall comprise of two semesters, viz. Odd and Even semesters.
- iii. Odd Semesters shall be from July to December and Even Semesters from January to June.
- iv. Eligibility to get entry in Semester VII is to secure a minimum of 7.5 CGPA up to semester VI along with other criteria imposed by the Institution.
- v. The validity of credits earned and kept in the Academic Bank of Credit account will be 7 years. After 7 years, re-entry into a programme of study will be based on the validation of prior learning outcomes.



8. SELECTION CRITERIA FOR ADMISSION:

The selection for admission will be primarily based on availability of seats in the Major subject and marks imposed by the institution. Merit point for selection will be based on marks obtained in Major subject at Class 12 (or equivalent level) or the aggregate marks of Class 12 (or equivalent level) if Marks of the Major subject is not available. Reservation norms of The Government of Jharkhand must be followed as amended in times.

9. ELIGIBILITY CRITERIA TO PURSUE UNDERGRADUATE COURSES

- i. The students passing Grade 12/ Intermediate/ equivalent examination shall be eligible for applying admission. The criteria for admission under the heads shall be the minimum pass marks at the last lower examination.
- ii. Entry will be based on the Certificate obtained after successful completion of Grade 12 or equivalent stage of education and the marks/grade imposed by the institution.
- iii. Other eligibility criteria including those for multiple entry will be as per the norms of the University.

10. CHOOSING PROGRAMME/ STUDY COURSES

There will be four disciplinary areas, each having basket of courses:

- A- Natural Science,
- B- Humanities,
- C- Social Science and
- D- Commerce.

At the time of admission, a student will have to select a 'Major' from any of the four disciplinary areas (out of A, B, C & D). The selection for admission will be primarily based on availability of seats in Major and marks imposed by the institution. A student will also have to select three subjects for 'Introductory Regular Courses' from a pool of subjects offered by the institution, associated with the Major. One of the three subjects will be continued as 'Minor' from semester IV onwards, based on the academic interest and performance of the student.

Common Courses: The following courses will be common to all students in semesters I to III:

- i. A student has to opt for One paper of 6 credits in MIL (Hindi) Communication or Non-Hindi & TRL/other language communication (NH+TRL/other language) of equal credits.
- ii. English Communication will be a compulsory common paper of 6 credits.
- iii. 'Environmental studies' of 3 credits
- iv. 'Understanding India' of 2 credits



- v. 'Health & Wellness, Yoga Education, Sports & Fitness' of 2 credits
- vi. 'Digital Education' of 3 credits
- vii. 'Mathematical & Computational Thinking and Analysis' of 2 credits
- viii. 'Global Citizenship Education & Education for Sustainable Development' of 2 credits
- ix. 'Community Engagement & Service (NSS/ NCC/ Adult Education)' of 3 credits

Internship/Project: Internships involve working with local industry, businesses, artists, crafts persons, etc. and opportunities for students to actively engage with the practical side of their learning. The project involves participating in field-based learning to understand the different socio-economic contexts, complex socio-economic problems in the community, and innovative practices required for the solutions. Internship/Project would be of 4 Credit. Internship/Project can be carried out during the summer vacation.

Introductory Courses: The introductory course will be of 15 credits to be covered during the first three semesters, in which 09 credits will be for introductory regular courses and 6 credits for introductory vocational studies.

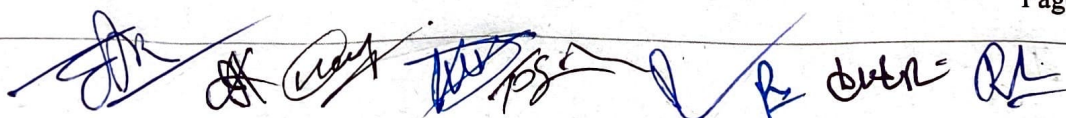
Introductory Regular Courses

At the time of admission, a student has to select a Major subject and three other subjects for 'Introductory Regular Courses' from a pool of subjects offered by the institution, associated with the selected Major. One of the three subjects will be continued as 'Minor' from semester IV onwards, based on the academic interest and performance of the student.

Introductory Vocational Studies- Students will have to select one vocational course of 6 credits from the provided set of courses. The 6 credits will be covered during the first two semesters.

Major Courses: (Disciplinary/Interdisciplinary Major)

- i. The FYUGP offers students a general understanding of the natural sciences, social sciences, humanities, interdisciplinary studies, and vocational education as well as in-depth study of at least one subject area termed as Major.
- ii. At the time of admission, a student will select a Major subject offered by the institution.
- iii. The major subject will be of a higher level to get deep knowledge and specialization in the discipline selected. These will be of total 54 credits to be covered during semesters I -VI. In semesters VII and VIII, the advanced level courses of the major subject of 24 credits required for taking up research will be offered.



Minor Courses: (Disciplinary/Interdisciplinary Minor)

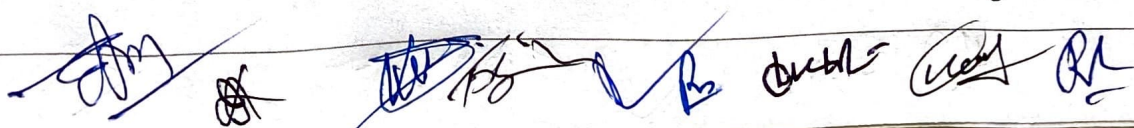
- i. The student will have to choose One Minor subject to support the major subject after completion of the third semester.
- ii. Minor will be a subject studied in 'Introductory Regular Courses'. These can be selected from the pool of subjects provided by the institution.

Research Courses: (Disciplinary/Interdisciplinary Advance Major)

- i. At the beginning of semester VII, each student will take up a research project along with advanced disciplinary /interdisciplinary courses. The final semester will be devoted mainly to the research project. The project should preferably be related to a topic in the chosen major.
- ii. In Research courses, the student will learn mainly
 - a. Research Methodology (6 credits)
 - b. Writing research proposal, data collection and review of the literature (4 credits)
 - c. Research internship/ Field work (4 credits)
 - d. Preparation of research project/ Writing research project report (4 credits)

Note:

- i. Major and Minor courses once selected would not be changed unless the student quits a programme and joins a new programme.
- ii. The student will be required to accumulate a certain minimum number of credits (as defined in the case of the Programme) to qualify for the stages of the Four-year UG programme.
- iii. Syllabus Guideline for Four Year Undergraduate Programme Implemented Under NEP is provided in **Annexure – I**.
- iv. For the FYUG Programme under NEP structure, the allowed combination of subjects for Undergraduate Certificate/ Undergraduate Diploma/ Bachelor's Degree / Bachelor's Degree with Honours/Research is mentioned in **Annexure – II**.
- v. University may revise subject mapping as per subjects available at institutions or in cases of new subject introduced in times.
- vi. The FYUGP Curriculum framework will be revised subject to the model curriculum provided by the UGC.



11. NATURE OF DIFFERENT TYPES OF COURSES IN A PROGRAMME

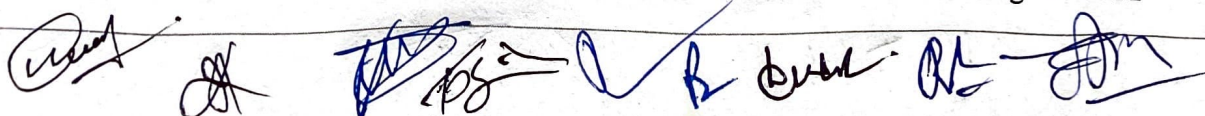
The following types of courses/activities constitute the programmes of study. Each of them will require a specific number of hours of teaching/guidance and laboratory/studio/workshop activities, field-based learning/projects, and internships, and community engagement and service.

- i. **Taught courses:** Courses involving lectures relating to a field or discipline by an expert or qualified personnel in a field of learning, work/vocation or professional practice. A minimum of 15 hours of teaching per credit in a semester along with 30 hours of out-of-class activities such as preparation for classes/lessons, completing assignments which form a part of the course work, and independent reading and study. The total learner engaged time for one credit taught course would be 45 hours. The out-of-class activities may not be measured and quantified for purposes of grading of the credit.
- ii. **Seminar:** A course requiring students to participate in structured discussion/conversation or debate focused on assigned tasks/readings, current or historical events, or shared experiences guided or led by an expert or qualified personnel in a field of learning, work/vocation or professional practice. A minimum of 15 hours of participation in seminar activity per credit in a semester along with 30 hours of out-of-class activities such as preparation for the seminar, completing assignments, and independent reading and study.
- iii. **Practicum:** A course requiring students to participate in an approved project or practical activity that applies previously learned/studied principles/theory related to the chosen field of learning, work/vocation or professional practice under the supervision of an expert or qualified individual in the field of learning, work/vocation or professional practice
- iv. **Internship:** A course requiring students to participate in a professional employment-related activity or work experience, or cooperative education activity with an entity external to the education institution, normally under the supervision of an employee of the given external entity. A key aspect of the internship is induction into actual work situations. Internships involve working with local industry, businesses, artists, crafts persons, etc. and opportunities for students to actively engage with the practical side of their learning.
- v. **Laboratory work/activity:** A course requiring students to discover/practice the application of scientific or technical principles/theories. The course may require scientific, or research-focused experiential work where students observe, test, conduct experiment(s) or practice the application of principles/theories relating to the field of learning, work/vocation or



professional practice. 30 hours in the laboratory activities per credit in a semester along with 15 hours of out-of-class activities such as preparation for the practicum, completing assignments which form a part of the course work, and independent reading and study. The total learner engaged time for a one-credit laboratory work/activity would be 45 hours.

- vi. **Studio activities:** Studio activities involve the engagement of students in creative or artistic activities. Every student is engaged in performing a creative activity to obtain a specific outcome. Studio-based activities involve visual- or aesthetic-focused experiential work. 30 hours in the studio activities per credit in a semester along with 15 hours of out-of-class activities such as preparation for the studio activity, completing assignments, and independent reading and study. The total learner engaged time for a one credit-hour studio activity would be 45 hours.
- vii. **Workshop-based activities:** Courses involving workshop-based activities require the engagement of students in hands-on activities related to work/vocation or professional practice. Every student is engaged in performing a skill-based activity related to a specific learning outcome(s). 30 hours of workshop-based activities per credit in a semester along with 15 hours of out-of-class activities such as preparation for the workshop activity, completing assignments, and independent reading and study. The total learner engaged time for a one credit-hour workshop activity would be 45 hours.
- viii. **Field practice/projects:** Courses requiring students to participate in field-based learning/projects generally under the supervision of an employee of the given external entity. 30 hours per credit in a semester along with 15 hours of activities such as preparation for the field projects, data analysis, preparation of reports etc., and independent reading and study.
- ix. **Community engagement and service:** Courses requiring students to participate in field-based learning/projects generally under the supervision of an employee of the given external entity. The curricular component of 'community engagement and service' will involve activities that would expose students to the socio-economic issues in society so that the theoretical learnings can be supplemented by actual life experiences to generate solutions to real-life problems. 30 hours of contact time per credit in a semester along with 15 hours of activities such as preparation for the community engagement and service, preparation of reports etc., and independent reading and study.



- x. **Hybrid courses involving a mix of taught courses and practicum:** A 4-credit course involving 75% of face-to-face teaching and 25% field-based learning/project or lab work, or workshop activities
- xi. **Learner engaged time for a 4-credit course involving 50% practicum:** A 4-credit course involving 50% face to face teaching and 50% field-based learning/project or lab work, or workshop activities

12. LEARNING ASSESSMENT

A variety of assessment methods that are appropriate to a given disciplinary/subject area and a programme of study will be used to assess progress towards the course/programme learning outcomes. Priority will be accorded to formative assessment. Evaluation will be based on continuous assessment, in which sessional work and the terminal examination will contribute to the final grade.

Sessional work will consist of class tests, mid-semester examination(s), homework assignments etc., as determined by the faculty in charge of the courses of study. Progress towards achievement of learning outcomes will be assessed using the following: time-constrained examinations; closed-book and open-book tests; problem-based assignments; practical assignment laboratory reports; observation of practical skills; individual project reports (case-study reports); team project reports; oral presentations, including seminar presentation; viva voce interviews; computerized adaptive assessment, examination on-demand, modular certifications etc.

13. LETTER GRADES AND GRADE POINTS:

- a. **Credit Weighed Marking System:** The performance of a student is evaluated in terms of earned credit weighed marking system. Earned credits are defined as the sum of course credits in which grade points above a certain cut off have been obtained for declaring a learner pass in that course.
- b. An absolute grading will be followed where the marks are converted directly to the grades based on pre-determined class intervals.
- c. A 10-point grading system with the following letter grades as given below will be followed:

Letter Grade: It is an index of the performance of students in a said course. Grades are denoted by the letters O, A+, A, B+, B, C, P and F.

Grade Point: It is a numerical weight allotted to each letter grade on a 10-point scale as below:




Table No. 7. Grades and Grade Points

Letter Grade	Grade Point
O (Outstanding)	10
A+(Excellent)	9
A(Very Good)	8
B+(Good)	7
B(Above Average)	6
C(Average)	5
P (Pass)	4
F(Fail)	0
Ab (Absent)	0

Table No. 8. Grades and Grade Points Conversion for Four Year Undergraduate Honours/ Research Programme

Class interval of Marks %	Grade Point	Letter Grade	Grade	Conventional . Equivalent
90 % and above	10	O	Outstanding	First Class with Distinction
75 to less than 90	9	A+	Excellent	
60 to less than 75	8	A	Very Good	First Class
55 to less than 60	7	B+	Good	Second Class
50 to less than 55	6	B	Above Average	
45 to less than 50	5	C	Average	
40 to less than 45	4	P	Pass	
Below 40	0	F	Fail	Fail
Absent	0	Ab	Absent	

14. CUMULATIVE GRADE POINT AVERAGE (CGPA):

It is a measure of the overall cumulative performance of a student's overall semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.

15. COMPUTATION OF SGPA AND CGPA:

- a. The UGC recommends the following procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)
- b. The SGPA is the ratio of the sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.

$$\text{SGPA (Si)} = \frac{\sum (C_i \times G_i)}{\sum C_i}$$

where C_i is the number of credits of the i th course and G_i is the grade point scored by the student in the i th course.

Thus, SGPA =

$$\frac{\text{All } \sum \text{ Course } [(Credits \text{ in each course}) \times (Grade \text{ point in that course})]}{\text{Total No. of Credits in that semester}}$$

- c. The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, i.e.

$$\text{CGPA} = \frac{\sum (C_i \times S_i)}{\sum C_i}$$

where S_i is the SGPA of the i th semester and C_i is the total number of credits in that semester.

Thus, CGPA =

$$\frac{\text{All semester } \sum [(SGPA \text{ in each semester}) \times (\text{Total Credits in that semester})]}{\text{Total No. of Credits in all semesters}}$$

- d. The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.
- e. For merit list, in case of equality, the CGPA shall be computed beyond two decimal places till the equality is resolved.
- f. In order to pass a Semester examination, the minimum **SGPA required is 4.0** and a minimum of **4.0 GP** in individual theory, practical and other credit components.

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16. ILLUSTRATION OF COMPUTATION OF SGPA AND CGPA

- a. Computation of SGPA (Table No. 9)
- b. Computation of CGPA (Table No. 10)

Table No. 9: Illustration for SGPA

Course	Credit	Grade letter	Grade point	Credit Point (CreditXGrade)
Course 1	3	A	8	3X8=24
Course 2	4	B+	7	4X7=28
Course 3	3	B	6	3X6=18
Course 4	3	O	10	3X10=30
Course 5	3	C	5	3X5=15
Course 6	4	B	6	4X6=24
TOTAL=	20			139

Thus, SGPA =139/20 =6.95

Table No. 10: Illustration for CGPA

Semester 1	Semester 2	Semester 3	Semester 4
Credit: 20 SGPA:6.9	Credit: 20 SGPA:7.8	Credit: 20 SGPA: 7.0	Credit: 20 SGPA:8.4
Semester 5	Semester 6		
Credit: 20 SGPA:7.3	Credit: 20 SGPA: 8.6		

$$\text{Thus, CGPA} = \frac{20 \times 6.9 + 20 \times 7.8 + 20 \times 7.0 + 20 \times 8.4 + 20 \times 7.3 + 20 \times 8.6}{20+20+20+20+20+20}$$

$$= \frac{138 + 156 + 140 + 168 + 146 + 172}{120} = 7.66$$

- a. Transcript (Format): Based on the above recommendations on Letter grades, grade points and SGPA and CCPA, the HEIs may issue the transcript for each semester and a consolidated transcript indicating the performance in all semesters.

17. VALIDITY OF REGISTRATION

- a. Validity of a registration will be for maximum for Seven years from the date of registration.
- b. If an examinee fails to obtain minimum marks to secure honours, he/she will be awarded maximum five (5) marks as grace marks in one paper in his/her whole academic session and will be awarded only when the status of the result changes.

18. EVALUATION OF LEARNING OUTCOME

1. Examination Regulation for UG Hons. Programme of 176 Credits

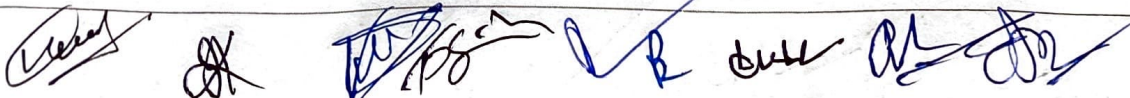
- i. Semester Internal Theory Examination in Introductory Courses (Natural Sc./ Humanities/ Social Sc./ Commerce), Major, Minor and Research Courses will be organized at College/ Institution level. However, Only One End semester evaluation in other courses will be done either at College/ Institution or University level depending upon the nature of course in the curriculum.
- ii. For the units of evaluation (namely tests, seminars, presentations, class performance, field work, thesis and others) the weightage assigned to each of such units in respect of each course shall be determined by the appropriate academic body of the university, and shall be made known to the students at the beginning of the academic session of the year, the semester as the case may be.
- iii. The question papers for the examinations shall be set in such a manner as to ensure that they cover the entire syllabus of the concerned course.
- iv. The tests and examinations shall aim at evaluating not only the student's ability to recall information, which he/she had memorized, but also his/her understanding of the subject and ability to synthesize scattered bits of information into a meaningful whole. Some of the questions shall be analytical and invite original thinking or application of theory.
- v. Semester Internal Theory Examination in Courses will be organized at College/Institution level.
- vi. There shall be only one Practical Examination in each semester for each paper separately.
- vii. Practical Examinations will be conducted by One External & One Internal Examiners.

2. Marks Distribution for Examinations for UG Hons. Programme of 176 Credits

There will be **Only One Semester Internal Examination** in Major, Minor and Research Courses, which will be organized at college/institution level.

- i. Out of 100 Marks in Semester Internal Theory Examination for Practical subjects will be of 15 marks and non-Practical subjects will be of 25 marks.
- ii. 15 Marks in Theory Examination may include 10 Marks questions from Written Examination/ Assignment/ Project/ Tutorial wherever applicable whereas 5 marks will be awarded on the attendance/ overall class performance in the semester.
- iii. 25 Marks in Theory Examination may include 20 Marks questions from Written Examination/ Assignment/ Project/ Tutorial wherever applicable whereas 5 marks will be awarded on the attendance/ overall class performance in the semester.
- iv. To convert attendance into marks a suggestive range is provided here. However, institutions may develop its own range:

[Attendance Upto 45%, 1 mark; 45 < Attd. < 55, 2 marks; 55 < Attd. < 65, 3 marks; 65 < Attd. < 75, 4 marks; 75 < Attd., 5 marks].



3. Marks distribution will be as shown in Table No.- 11

Table No. 11: Marks distribution pattern

Subjects	FM	Semester Internal	End Semester		
Common Courses	100	---	100		
Introductory Courses	100	---	100		
Vocational Courses including Internship	100	---	100		
Non- Practical Subjects	100	25	75		
Practical Subjects	T	P	T	T	P
	75	25	15	60	25

4. Eligibility for appearing in End Semester Examinations (ESE):

- i. If a candidate/student has not appeared in the Semester Internal Examination organized at college level, he/she will not be eligible to fill up the End Semester Examination Form for End Semester Examination to be organized at university level for that semester.
- ii. If a student failed to secure pass marks in aggregate of Semester Internal & End Semester, He/she will be required to reappear in End Semester Examination of following Sessions within period of Upper Limit of Six Years in Three Year Programme or Upper Limit of Seven Years in Four Year Degree Programme.
- iii. Eligibility to get entry in Semester VII is to secure minimum of 7.5 CGPA up to semester VI along with other criteria imposed by the Institution.
- iv. The validity of credits earned/kept in the Academic Credit Account will be 7 years. After 7 years, re-entry into a programme will be based on the validation of prior learning outcomes.

5. Guidelines for Question Setter:

- i. Question Paper shall show Full Marks (FM), Pass Marks (PM) & Max Time allowed (in Hrs.) at the top of the Question Paper.
- ii. In order to avoid wrote memory and to evaluate in-depth study, knowledge, understanding and application domain of student the pattern of questions as given below must be set.
- iii. There will be two categories of Questions Namely **Group A & Group B**. Group A will be of very short answer type (consisting objective type excluding multiple choice questions) of 1 mark & short answer type of 5 marks and questions in this group will be all compulsory. Group B will contain long answer type questions.
- iv. For Semester Internal Examination (SIE 10 marks):
There will be two group of questions. **Question No.1 will be very short answer type in Group A** consisting of five questions of 1 mark each. **Group B will contain descriptive type two questions of five marks each, out of which any one to answer.**

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v. **For Semester Internal Examination (SIE 20 marks):**

There will be two group of questions. **Group A is compulsory** which will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** two questions of ten marks each, out of which any one to answer.

vi. **For End Semester Examination (ESE 50 marks):**

There will be two group of questions. **Question No.1 will be very short answer type compulsory question in Group A** consisting of five questions of 1 mark each. **Group B will contain descriptive type** five questions of fifteen marks each, out of which any three are to answer.

vii. **For End Semester Examination (ESE 60 marks):**

There will be two group of questions. **Group A is compulsory** which will contain three questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 & 3 will be short answer type** of 5 marks. **Group B will contain descriptive type** five questions of fifteen marks each, out of which any three are to answer.

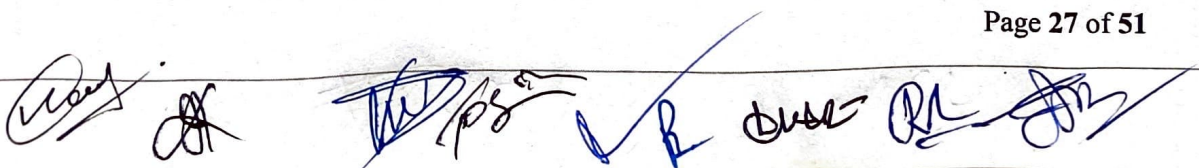
viii. **For End Semester Examination (ESE 75 marks):**

There will be two group of questions. **Group A is compulsory** which will contain three questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No. 2 & 3 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to answer.

ix. **For End Semester Examination (ESE 100 marks):**

There will be two group of questions. **Group A is compulsory** which will contain three questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No. 2 & 3 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of twenty marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.



19. CALCULATION OF MARKS FOR THE PURPOSE OF RESULT

Student's final marks and the result will be based on the marks obtained in Semester Internal Examination and End Semester Examination organized taken together. Passing in a subject will depend on the collective marks obtained in Semester internal and End Semester University Examination both. However, students must pass in Theory and Practical Examinations separately.

Pass Marks in 176 Credit Course i.e. UG Hons. /Research Programme:

- i. The pass marks in 176 credit courses will be 40% of the total marks obtained in each Course offered by the student.

Table No. 12: Full Marks (FM) & Pass Marks (PM) pattern for Subjects

Subjects/ Major subjects	FM	PM
Non- Practical Subjects	100	40
Practical Subjects: Theory Paper	75	30
Practical Subjects: Practical Paper	25	10
Practical Subjects: Practical Paper	50	20
Practical Subjects: Practical Paper	75	30

- ii. To pass in **MIL Non-Hindi** subject, a student must obtain minimum 40 marks as the aggregate of the two subjects taken together. Besides, He/she must also get 40% pass marks in both the papers individually.

Table No. 13: Full Marks (FM) & Pass Marks (PM) pattern for Language Communication Courses:

Subjects	FM	PM
MIL Hindi	100	40
MIL (Non-Hindi)	50	20
Other Language	50	20

20. PROMOTION CRITERIA:

- i. The Requisite Marks obtained by a student in a particular subject will be the criteria for promotion to the next Semester.
- ii. No student will be detained in odd Semesters (I, III, V & VII).
- iii. To get promotion from Semester-II to Semester-III a student will be required to pass in at least 75% of Courses in an academic year (a student has to pass in minimum 9 papers out of the total 12 papers. However, it will be necessary to procure pass marks in each of the paper before completion of the course.
- iv. To get promotion from Semester-IV to Semester-V (taken together of Semester I, II, III & IV) a student has to pass in minimum 16 papers out of the total 22 papers.

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21. MODERATION (GRACE MARKS)

- i. Grace marks will be awarded in theory papers only.
- ii. A maximum of 5 marks; only in one paper, only once in complete academic cycle; will be awarded as grace marks.
- iii. Grace marks will be awarded in the condition of requirement for the change of status of result viz: Not-promoted to Promoted & for Promoted to Pass.
- iv. Provision of Grace marks will be applicable to students in the parent institute only.
- v. A student will have to clear all his papers within Seven Years of duration to qualify for the degree.
- vi. On completion of UG course of 176 credit, a student will get a comprehensive result with marks sheet on hybrid system i.e. on Grade system, percentage system.
- vii. The minimum and maximum number of credits may increase provided a candidate opts for Add on courses. A separate certificate in such cases may be issued.
- viii. The tentative/ provisional grade shall be issued at the end of every semester indicating the courses completed successfully. The final Grade Card may be issued by the Registrar/ Controller of Examinations of the concerned university after a candidate has successfully completed all the courses of the said programme.

22. RANKING

The Merit List and Ranking thereupon shall be prepared only for Regular Examinees, who passed the Examination in single attempt.

23. REVIEW

The University may, review, alter, substitute, amend any of the provisions of this regulation subject to such conditions as may be prescribed by the UGC and as per any special situation arising during the operation of this regulation as perceived by the Academic Council of the University.

FORMAT OF QUESTION PAPER FOR SEMESTER INTERNAL EXAMINATION

Question format for 10 Marks:

F.M. =10	Subject/ Code Time=1Hr.	Exam Year
General Instructions:		
i. Group A carries very short answer type compulsory questions. ii. Answer 1 out of 2 subjective/ descriptive questions given in Group B . iii. Answer in your own words as far as practicable. iv. Answer all sub parts of a question at one place. v. Numbers in right indicate full marks of the question.		
Group A		
1.		[5x1=5]
i.	
ii.	
iii.	
iv.	
v.	
Group B		
2.	[5]
3.	[5]
Note: There may be subdivisions in each question asked in Theory Examination.		

Question format for 20 Marks:

F.M. =20	Subject/ Code Time=1Hr.	Exam Year
General Instructions:		
i. Group A carries very short answer type compulsory questions. ii. Answer 1 out of 2 subjective/ descriptive questions given in Group B . iii. Answer in your own words as far as practicable. iv. Answer all sub parts of a question at one place. v. Numbers in right indicate full marks of the question.		
Group A		
1.		[5x1=5]
i.	
ii.	
iii.	
iv.	
v.	
2.	[5]
Group B		
3.	[10]
4.	[10]
Note: There may be subdivisions in each question asked in Theory Examination.		

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FORMAT OF QUESTION PAPER FOR END SEMESTER UNIVERSITY EXAMINATION

Question format for 50 Marks:

F.M. =50	Subject/ Code Time=3Hrs.	Exam Year
General Instructions:		
i. Group A carries very short answer type compulsory questions.		
ii. Answer 3 out of 5 subjective/ descriptive questions given in Group B .		
iii. Answer in your own words as far as practicable.		
iv. Answer all sub parts of a question at one place.		
v. Numbers in right indicate full marks of the question.		
<u>Group A</u>		
1.		[5x1=5]
i.		
ii.		
iii.		
iv.		
v.		
<u>Group B</u>		
2.		[15]
3.		[15]
4.		[15]
5.		[15]
6.		[15]
Note: There may be subdivisions in each question asked in Theory Examination.		

Question format for 60 Marks:

F.M. =60	Subject/ Code Time=3Hrs.	Exam Year
General Instructions:		
i. Group A carries very short answer type compulsory questions.		
ii. Answer 3 out of 5 subjective/ descriptive questions given in Group B .		
iii. Answer in your own words as far as practicable.		
iv. Answer all sub parts of a question at one place.		
v. Numbers in right indicate full marks of the question.		
<u>Group A</u>		
1.		[5x1=5]
i.		
ii.		
iii.		
iv.		
v.		
2.		[5]
3.		[5]
<u>Group B</u>		
4.		[15]
5.		[15]
6.		[15]
7.		[15]
8.		[15]
Note: There may be subdivisions in each question asked in Theory Examination.		

Question format for 75 Marks:

F.M. = 75	Subject/ Code Time=3Hrs.	Exam Year
General Instructions:		
i. Group A carries very short answer type compulsory questions.		
ii. Answer 4 out of 6 subjective/ descriptive questions given in Group B .		
iii. Answer in your own words as far as practicable.		
iv. Answer all sub parts of a question at one place.		
v. Numbers in right indicate full marks of the question.		
<u>Group A</u>		
1.		[5x1=5]
i.		
ii.		
iii.		
iv.		
v.		
2.		[5]
3.		[5]
<u>Group B</u>		
4.		[15]
5.		[15]
6.		[15]
7.		[15]
8.		[15]
9.		[15]
Note: There may be subdivisions in each question asked in Theory Examination.		

Question format for 100 Marks:

F.M. = 100	Subject/ Code Time=3Hrs.	Exam Year
General Instructions:		
i. Group A carries very short answer type compulsory questions.		
ii. Answer 4 out of 6 subjective/ descriptive questions given in Group B .		
iii. Answer in your own words as far as practicable.		
iv. Answer all sub parts of a question at one place.		
v. Numbers in right indicate full marks of the question.		
<u>Group A</u>		
1.		[10x1=10]
i.	vi.	
ii.	vii.	
iii.	viii.	
iv.	ix.	
v.	x.	
2.		[5]
3.		[5]
<u>Group B</u>		
4.		[20]
5.		[20]
6.		[20]
7.		[20]
8.		[20]
9.		[20]
Note: There may be subdivisions in each question asked in Theory Examination.		

SYLLABUS GUIDELINE FOR FOUR YEAR UNDERGRADUATE PROGRAMME
IMPLEMENTED UNDER NEP 2022 onwards

A. **COMMON COURSES** (Columns 2 to 12 in Table 1):

The syllabus of Common Courses will be prepared at the University level as per the following guidelines:

1) **Language and Communication Skills** (Columns 2 & 3 in Table 1)

- Special emphasis on language and communication skills.
- To enable the students to acquire and demonstrate the core linguistic skills, including critical reading and expository and academic writing skills, that help students articulate their arguments and present their thinking clearly and coherently and recognise the importance of language as a mediator of knowledge and identity.
- To enable the students to acquaint with the cultural and intellectual heritage of the chosen MIL and English language
- To provide reflective understanding of the structure and complexity of the language/literature related to both the MIL and English language.
- To develop and enhance the skills such as communication, ability to participate/conduct discussion and debate.

a) **Modern Indian language including TRL (6 Credits)**

b) **English Communication (6 Credits)**

Table No. 14: Full Marks (FM) & Credits pattern for Language Communication Courses:

Subject	Symbol	Full Marks	Credits
MIL: Hindi Communication	MIL	100	6
Non-Hindi +	NH	50	3
TRL/ other language communication	TRL/ Other Language	50	3
English Communication	Eng. Comm.	100	6

2) **Environmental Studies (Column 4)** [Theory paper, 3 Credits]

- To equip students with the ability to apply the acquired knowledge, skills, attitudes, and values required to take appropriate actions for mitigating the effects of environmental degradation, climate change and pollution, effective waste management, conservation of biological diversity, management of biological resources, forest and wildlife conservation, and sustainable development and living.

- To deepen the knowledge and understanding of India's environment in its totality, their interactive processes, and effects on the future quality of people's lives.
- A unit in the context of Jharkhand

3) **Understanding India** (Column 5) [Theory paper, 2 Credits]

- To enable the students to acquire and demonstrate the knowledge and understanding of contemporary India with its historical perspective
- To demonstrate the basic framework of the goals and policies of national development
- To demonstrate the constitutional obligations with special emphasis on constitutional values and fundamental rights and duties.
- To develop the understanding of Indian knowledge systems, Indian education system and the roles and obligations of teachers to the nation in general and to the society.
- To deepen knowledge about and understanding of India's freedom struggle and of the values and ideals that it represented.
- to prepare the learners for their roles and responsibilities as effective citizens of a democratic society.
- A unit in the context of Jharkhand

4) **Health & Wellness, Yoga Education, Sports & Fitness** (Column 6) [2 Credits]

- To promote an optimal state of physical, emotional, intellectual, social spiritual and environmental wellbeing of a person.
- To organise sports and fitness activities outside the regular institutional working hours.
- Yoga education focusing on preparing the students physically and mentally for the integration of their physical, mental, and spiritual faculties, to maintain self-discipline, self-control, to learn to handle oneself well in all life situations.
- The focus of sports and fitness components of the courses will be on the improvement of physical fitness including the improvement of various components of physical and skills related fitness like strength, speed, coordination, endurance and flexibility;
- Acquisition of sports skills relevant to a particular sport; improvement of tactical abilities; and improvement of mental abilities.

5) **Digital Education** (Column 7) [3 Credits]

- An overview of Computer System
- Basic Hardware & Software
- Operating System
- Word Processing, Spread Sheets and Presentation
- Internet



- e-Governance Services
- Digital Financial Tools & Applications
- Cyber Security

6) Mathematical and Computational Thinking and Analysis (Column 8) [2 Credits]

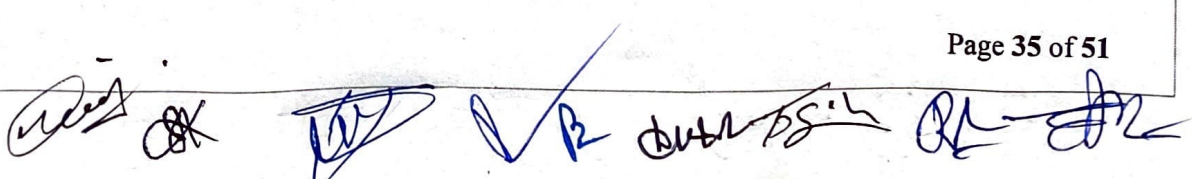
- To focus primarily on the mathematical and statistical tools used to support the study of natural and social sciences.
- To focus on the methodology used to analyse quantitative information to make decisions, judgments, and predictions
- To focus on the methodology of quantitative analysis.
- To ensure that students achieve a level of proficiency in using and analysing quantitative information.
- To enable students for defining a problem by means of numerical or geometrical representations of real-world phenomena, determining how to solve it, deducing inferences, formulating alternatives, and predicting cause and effect relationships.

7) Global Citizenship Education & Education for Sustainable Development (Column 9) [Theory paper, 2 Credits]

- To empower learners to become aware of and understand global and sustainable development issues
- To become active promoters of more peaceful, tolerant, inclusive, secure, and sustainable societies.
- Enabling students to embrace and practice constitutional, humanistic, ethical, and moral values in conducting one's life, including universal human values and citizenship values.
- To practice responsible global citizenship required for responding to contemporary global challenges
- To aware students about global issues and to make them active promoters of more peaceful, tolerant, inclusive, secure, and sustainable societies.
- To enable the students in recognising environmental and sustainability issues, and to participate in actions to promote sustainable development.
- To instil integrity in students and enabling them identify ethical issues related to work, and follow ethical practices.

8) Community Engagement & Service (NSS/ NCC/ Adult Education) (Column 10) [2 Credits]

- Courses requiring students to participate in field-based learning/project



- The curricular component will involve activities that would expose students to the socio-economic issues in society so that the theoretical learnings can be supplemented by actual life experiences to generate solutions to real-life problems.
- To instil the desire and ability to participate in activities/services that are undertaken in collaboration with community members for promoting the wellbeing of the society, including participation in National Services Scheme (NSS), National Cadet Corps (NCC), adult literacy/education programmes, mentoring school students etc.

B. INTRODUCTORY COURSES (Columns 11 & 12 in Table 1):

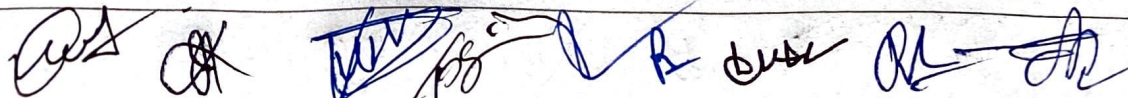
Introductory Courses aim to develop capabilities in the students across a range of disciplines including sciences, social sciences, arts, humanities, languages, as well as professional, technical, and vocational subjects.

1) Introductory Regular Courses (Column 11) [3+3+3=09 Credits]

- There will be an introductory paper of each subject which aim at instilling a broad understanding and an appreciation of the subject.
- A student will study three different subjects at the introductory level during first three semesters.
- It would help students recognise the differences and similarities between disciplines and identify different ways of organising knowledge.
- The syllabus of introductory paper of a subject should aims to develop a coherent view of essential concepts, structures, and intellectual methods that characterise the subject.
- The main thrust of interdisciplinary courses will be to promote critical thinking, team-based intellectual activities, and the analytic skills that characterise different disciplinary areas of study.
- The subject studied in the introductory regular courses would be a gateway to the Minor course to be pursued from the fourth to sixth semesters of the FYUGP. Moreover, it would be a prerequisite to the selection of Minor Subject.

2) Introductory Vocational Courses (Column 12) [3+3=06 Credits]

- **The course would involve Workshop-based activities** requiring engagement of students in hands-on activities related to work/vocation or professional practice.
- Every student is engaged in performing a skill-based activity related to specific learning outcome(s).
- 30 hours of workshop-based activities per credit in a semester along with 15 hours of out-of-class activities such as preparation for the workshop activity, completing assignments, and independent reading and study. The total learner engaged time for a one credit-hour workshop activity would be 45 hours.



C. MAJOR/ADVANCE MAJOR (Columns 14 in Table 1):

- The syllabi will be as per the syllabi of 'Learning Outcomes based Curriculum Framework' (LOCF) released by UGC.
- If LOCF syllabus of a subject is not available, then syllabus of such subject will be as per the CBCS Syllabus of UGC.
- Syllabus of MJ-1 (Major Paper 1) will be the LOCF/CBCS Syllabus of Core-1 paper of the respective subject.
- Syllabus of AMJ-1, AMJ-2, AMJ-3 & AMJ-4 (Advance Major papers 1-4) will be taken from LOCF/CBCS Syllabus of DSE1, 2, 3 & 4 papers of the respective subject.
- The syllabus of MJ-2 to MJ-9 ((Major Papers 2 to 9) will be prepared by taking the contents from LOCF/CBCS syllabus of Core-2 to Core-14. At first, each University will submit subject-wise titles of these papers to the State NEP Implementation Cell in the following format:

University:		
Subject:		
Paper	Code	Paper Title
Major paper 1	MJ-1	
Major paper 2	MJ-2	
Major paper 3	MJ-3	
Major paper 4	MJ-4	
Major paper 5	MJ-5	
Major paper 6	MJ-6	
Major paper 7	MJ-7	
Major paper 8	MJ-8	
Major paper 9	MJ-9	

- Titles of these Major papers will be finalised by the State NEP Implementation Cell after required consultation and then circulated to the Universities. Thereafter, syllabi of the papers as per the finalised titles will be prepared at the University level taking the content from LOCF/CBCS curriculum of UGC.
- The Credit hours of Non-Practical Subjects would be Lecture + Tutorials = 5+1=6.
- The Credit hours of Practical Subjects would be Lecture + Practical = 4+2=6.

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D. **MINOR** (Columns 15 & 16 in Table 1):

1) **Minor relating to disciplinary area** (Columns 15) [6+6+6=18 Credits]

- The syllabus of MN-1 to MN-3 ((Minor Papers 1 to 3) will be prepared by taking the contents from LOCF/CBCS syllabus of GE-1 to GE-4. At first, each University will submit subject-wise titles of these papers to the State NEP Implementation Cell in the following format:

University:		
Subject:		
Paper	Code	Paper Title
Minor paper 1	MN-1	
Minor paper 2	MN-2	
Minor paper 3	MN-3	

- Titles of the Minor papers will be finalised by the State NEP Implementation Cell after required consultation and then circulated to the Universities. Thereafter, syllabi of the papers as per the finalised titles will be prepared at the University level taking the content from LOCF/CBCS curriculum of UGC.
- The Credit hours of Non-Practical Subjects would be Lecture + Tutorials = 5+1=6.
- The Credit hours of Practical Subjects would be Lecture + Practical = 4+2=6.

2) **Minor relating to vocational studies** (Columns 16) [4+4+4+2=14 Credits]

- VS-1, VS-2, VS-3 will be decided at the institute level as per availability and facility for vocational studies.
- VSR (Sem. VIII) will be a 2 credit vocational study course associated with the Major subject area to support the research.

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CHOOSING PROGRAMME IN THE FOUR YEAR UNDERGRADUATE PROGRAMME IMPLEMENTED UNDER NEP 2022 onwards

Table No. 15: Matrix option to select subject combination from Disciplinary/ Interdisciplinary programmes:

Introductory Subjects/ Minor Major	Natural Science										Social Science										C										Humanities										Total
	Botany	Chemistry	Mathematics	Physics	Geology	Statistics	Zoology	Anthropology	Economics	Geography	History	Home Science	Political Science	Psychology	Sociology	Commerce	Philosophy	Bengali	English	Hindi	Ho	Kharia	Kumali	Kurux	Mundari	Nagpuri	Panch Pargana	Sanskrit	Santali	Urdu											
Botany	✓																														5										
Chemistry		✓																													6										
Mathematics			✓																												6										
Physics				✓																											5										
Geology					✓																										8										
Statistics						✓																									6										
Zoology							✓																								6										
Anthropology								✓																							22										
Economics									✓																						24										
Geography										✓																					23										
History											✓																				22										
Home Science												✓																			23										
Political Science													✓																		21										
Psychology														✓																	22										
Sociology															✓																21										

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Jharkhand, NEP, FYUGP 2022 onwards

C	Humanities											Social Science								Natural Science						C						
	Urdu	Santali	Sanskrit	Panch Pargania	Nagpuri	Mundari	Kurux	Kurmali	Kharita	Ho	Hindi	English	Bengali	Philosophy	Commerce	Sociology	Psychology	Political Science	Home Science	History	Geography	Economics	Anthropology	Zoology	Statistics		Geology	Physics	Mathematics	Chemistry	Botany	
11														✓																		
22	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓									
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
11														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								

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CHOOSING PROGRAMME/ STUDY COURSES IN THE FOUR-YEAR UNDERGRADUATE PROGRAMME IMPLEMENTED UNDER NEP **2022 onwards**

Table No. 16: Option to select subject combination from Disciplinary/ Interdisciplinary programmes:

NATURAL SCIENCES

S.N.	Major	Introductory Subject/ Minor
1	Botany	Chemistry
		Geology
		Zoology
		Economics
		Geography

S.N.	Major	Introductory Subject/ Minor
2	Chemistry	Botany
		Mathematics
		Physics
		Geology
		Zoology
		Economics

S.N.	Major	Introductory Subject/ Minor
3	Mathematics	Chemistry
		Physics
		Geology
		Statistics
		Economics
		Commerce

S.N.	Major	Introductory Subject/ Minor
4	Physics	Chemistry
		Mathematics
		Economics
		Geography
		Philosophy

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S.N.	Major	Introductory Subject/ Minor
5	Geology	Botany
		Chemistry
		Mathematics
		Physics
		Zoology
		Anthropology
		Economics
		Geography

S.N.	Major	Introductory Subject/ Minor
6	Statistics	Mathematics
		Economics
		Geography
		History
		Political Science
		Commerce

COMMERCE:

S.N.	Major	Introductory Subject/ Minor
1	Commerce	Mathematics
		Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Philosophy

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SOCIAL SCIENCES:

S.N.	Major	Introductory Subject/ Minor
1	Anthropology	Geology
		Zoology
		Economics
		Geography
		History
		Political Science
		Psychology
		Sociology
		Philosophy
		Bengali
		English
		Hindi
		Ho
		Kharia
		Kurmali
		Kurux
		Mundari
		Nagpuri
		Panch Pargania
		Sanskrit
Santali		
Urdu		

S.N.	Major	Introductory Subject/ Minor
2	Economics	Mathematics
		Statistics
		Anthropology
		Geography
		History
		Home science
		Political Science
		Psychology
		Sociology
		Philosophy
		Bengali
		English
		Hindi
		Ho
		Kharia
		Kurmali
		Kurux
		Mundari
		Nagpuri
		Panch Pargania
Sanskrit		
Santali		
Urdu		

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S.N.	Major	Introductory Subject/ Minor
3	Geography	Geology
		Statistics
		Anthropology
		Economics
		History
		Political Science
		Psychology
		Sociology
		Philosophy
		Bengali
		English
		Hindi
		Ho
		Kharia
		Kurmali
		Kurux
		Mundari
		Nagpuri
		Panch Pargania
		Sanskrit
Santali		
Urdu		

S.N.	Major	Introductory Subject/ Minor
4	History	Geology
		Statistics
		Anthropology
		Economics
		Geography
		Political Science
		Psychology
		Sociology
		Philosophy
		Bengali
		English
		Hindi
		Ho
		Kharia
		Kurmali
		Kurux
		Mundari
		Nagpuri
		Panch Pargania
		Sanskrit
Santali		
Urdu		

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S.N.	Major	Introductory Subject/ Minor
5	Home Science	Zoology
		Anthropology
		Economics
		Geography
		History
		Political Science
		Psychology
		Sociology
		Philosophy
		Bengali
		English
		Hindi
		Ho
		Kharia
		Kurmali
		Kurux
		Mundari
		Nagpuri
Panch Pargania		
Sanskrit		
Santali		
Urdu		

S.N.	Major	Introductory Subject/ Minor
6.	Political Science	Anthropology
		Economics
		Geography
		History
		Home Science
		Psychology
		Sociology
		Philosophy
		Bengali
		English
		Hindi
		Ho
		Kharia
		Kurmali
		Kurux
		Mundari
		Nagpuri
		Panch Pargania
Sanskrit		
Santali		
Urdu		

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S.N.	Major	Introductory Subject/ Minor
7	Psychology	Zoology
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Sociology
		Philosophy
		Bengali
		English
		Hindi
		Ho
		Kharia
		Kurmali
		Kurux
		Mundari
Nagpuri		
Panch Pargania		
Sanskrit		
Santali		
Urdu		

S.N.	Major	Introductory Subject/ Minor
8	Sociology	Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Philosophy
		Bengali
		English
		Hindi
		Ho
		Kharia
		Kurmali
		Kurux
		Mundari
		Nagpuri
		Panch Pargania
Sanskrit		
Santali		
Urdu		

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HUMANITIES:

S.N.	Major	Introductory Subject/ Minor
1	Philosophy	Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Bengali
		English
		Hindi
		Ho
		Kharia
		Kurmali
		Kurux
		Mundari
		Nagpuri
		Panch Pargania
Sanskrit		
Santali		
Urdu		

S.N.	Major	Introductory Subject/ Minor
2	Bengali	Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Philosophy

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S.N.	Major	Introductory Subject/ Minor
3	English	Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Philosophy

S.N.	Major	Introductory Subject/ Minor
4	Hindi	Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Philosophy

S.N.	Major	Introductory Subject/ Minor
5	Ho	Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Philosophy

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S.N.	Major	Introductory Subject/ Minor
6	Kharia	Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Philosophy

S.N.	Major	Introductory Subject/ Minor
7	Kur mali	Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Philosophy

S.N.	Major	Introductory Subject/ Minor
8	Kurux	Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Philosophy

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S.N.	Major	Introductory Subject/ Minor
9	Mundari	Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Philosophy

S.N.	Major	Introductory Subject/ Minor
10	Nagpuri	Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Philosophy

S.N.	Major	Introductory Subject/ Minor
11	Panch Pargania	Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Philosophy

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S.N.	Major	Introductory Subject/ Minor
12	Sanskrit	Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Philosophy

S.N.	Major	Introductory Subject/ Minor
13	Santali	Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Philosophy

S.N.	Major	Introductory Subject/ Minor
14	Urdu	Statistics
		Anthropology
		Economics
		Geography
		History
		Home Science
		Political Science
		Psychology
		Sociology
		Commerce
		Philosophy

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