Course Regulations

Of

Four Year Under Graduate Programme (FYUGP)

Of

B.Sc. (Hons.) Programme in Computer Application and Cyber Security

(W.e.f. from Academic Year 2025-26)

Department Of Cyber Defence
Jharkhand Raksha Shakti University
Meur's Road SKIPA Premises, Ranchi

Regulation for B.Sc. (Honours) Programme in Computer Applications and Cyber Security as per NEP 2020 (FYUGP)

Jharkhand Raksha Shakti University

Department of Computer Applications and Cyber Security

These Regulations have been framed and adopted by the Department of Computer Applications and Cyber Security of Jharkhand Raksha Shakti University, Ranchi in pursuance of the notification of Department of Higher and Technical Education (Directorate of Higher Education), Government of Jharkhand for the Implementation of Four Year Under Graduate Programme (FYUGP) in State Universities of Jharkhand Regulations, 2024.

The following Regulations shall govern all aspects of B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) at the Jharkhand Raksha Shakti University, Ranchi, and shall override all the existing regulations and practices related to the three-year undergraduate academic programme of B.Sc. (Hons.) in Computer Applications and Cyber Security, unless stipulated otherwise.

PART I. INTRODUCTORY

1. Short title, application, and commencement

1.1	These Regulations may be called B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) Regulations, 2025.
1.2	It shall extend to the Department of Cyber Defence of Jharkhand Raksha Shakti University, Ranchi.
1.3	These Regulations will come into effect from the academic year 2025-2026 and will have a prospective effect.

2. Definitions

In these Regulations, unless specifically defined otherwise or required otherwise by the context, the following definitions will prevail:

2.1	"Academic Year" means the period from July of one calendar year to June of the following calendar year.
2.2	"Academic Bank of Credit (ABC)" is a digital repository established by the University Grants Commission to accumulate and archive the credits earned by students through various courses and programmes across different higher educational institutions. The implementation of ABC, to the extent of this regulation, will be governed by the "Implementation of Academic Bank of Credits in State Universities of Jharkhand Regulations, 2024".
2.3	“Attendance” means the student's presence in the class, which is duly entered in the register maintained for each course separately.
2.4	"Regulation" means B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) Regulations (adapted and amended up to date).
2.5	"University" means the Jharkhand Raksha Shakti University, Ranchi.
2.6	"UGC" means the University Grants Commission established under the University Grants Commission Act, 1956.

2.7	"NEP" means the National Education Policy, 2020.
2.8	"FYUGP" means Four-Year Undergraduate Programme.
2.9	"Programmes" means an under graduate programme leading to the Under graduate Certificate/Undergraduate Diploma/ Bachelor's Degree/Bachelor's Degree Honours & Bachelor's Degree Honours with Research. A full-time programme is a programme where the participants study as per the schedule and are not employed.
2.10	"Courses" comprises papers that are taught and evaluated within a programme, including lectures/tutorials, laboratory work, field work, project work, vocational training, viva, seminars, term papers, presentations, assignments, self-study, internship, etc., or a combination of some of these elements.
2.11	"Semester" means either Odd Semester, which runs from the 1st Monday of August to the 3rd Saturday of December, or Even Semester, which runs from the 1st Monday of January to the 3rd Saturday of May. If any of the mentioned dates fall on a holiday, the following day will be applicable. Additionally, will be in the months of June and July. Each semester comprises at least 90 actual direct teaching days, amounting to 15 teaching weeks with 40 hours of instructional time per week.
2.12	"Choice-Based Credit System (CBCS)" provides choices for students to select from the prescribed Programme.
2.13	"Credit (C)" means a numeric value that is the unit by which the weight of a course is measured. One Credit is equivalent to one hour of teaching (Theoretical or Tutorial) or two hours of Practical Work/Field Work/Extra Curricular Work per week in a semester.
2.14	"Multiple Entry - Multiple Exit (ME-ME)" is a flexible academic framework allowing students to enter and exit a programme at multiple points. To the extent of this regulation, ME-ME will be governed by the "Multiple Entry - Multiple Exit in State Universities of Jharkhand Regulation, 2024".
2.15	"Grade" in a course is a letter symbol (O, A+, A, B+, B, C, P, F and Ab) representing the alphabetical grade awarded to a student based on their performance in various examinations.
2.16	"Grade Point (G)" is an integer indicating the numerical equivalent of a student's broad performance level in each course. Grade Point means points given to a letter grade on a 10-point scale.
2.17	"Credit Point (P)" of a course is the value obtained by multiplying the grade point (G) by the credit (C) of the course: $P = G \times C$.
2.18	"Semester Grade Point Average (SGPA)" means a measure of a student's performance in a Semester. It is the weighted average of total grade points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It will be expressed up to two decimal places.
2.19	"Cumulative Grade Point Average (CGPA)" means a measure of the cumulative performance of students over all the Semesters at the end of each academic session.

PART II: ADMINISTRATION AND FUNCTIONING	
3. Constitution of Board of Studies (BoS)	
3.1	The BoS shall be constituted by the University for a period of two years.
3.2	The meetings of the BoS shall be arranged at least once a year.
3.3	The Vice-Chancellor will approve the members of the BoS from the panel of experts recommended by the Head/ Head In-charge of the Department.
3.4	The Head/ Head In-charge of the Department will be the Chairman of BoS.
3.4	The BoS shall co-opt experts from the Computer Applications, Computer Science and Cyber Security field as External members not below the rank of Assistant Professor or equivalent, with the approval of the Vice Chancellor.
3.5	A copy of the BoS Meeting minutes shall be available on the University website.
4. Composition of the Board of Studies	
4.1	The composition of the Board of Studies (BoS) is given below: (a) The Head/ Head In-charge, Department of Cyber Defence, as Chairperson. (b) All Professors/Associate Professors/Assistant Professors of the Department of Cyber Defence as Members. (c) Two Subject Experts from nationally recognized institutes of Computer Applications/ Computer Science/ Cyber Security approved by the Vice-Chancellor as External Members, not below the rank of Assistant Professor or equivalent. (d) One student alumnus with distinct academic credentials.
5. Functioning and Powers of the Board of Studies	
5.1	The Board of Studies shall have the power: (a) The Board of Studies shall advise the changes in the overall curriculum of the B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year). Any proposal for a change in the Curricular Structure of the Programme shall be first placed before the Board of Studies for its views. The Board of Studies shall forward its recommendation on the proposal to the Vice-Chancellor for the approval of the Academic Council. (b) The Board of Studies shall be empowered to recommend approval of the introduction of new elective courses or omitting the previously offered courses after consultation with the Head and the concerned Faculty. Any Faculty proposing a new elective course shall submit the course outline along with the proposed evaluation structure to the Board, and the Board shall forward its recommendation on the proposal to the Vice-Chancellor for the approval of the Academic Council.
PART III: ADMISSION AND STUDENT PROGRESSION	
6. Eligibility Criteria to Pursue UG Courses	
6.1	The Students passing the Grade 12/Intermediate/equivalent examination with a science stream and **mathematics as a compulsory subject**, securing a minimum of 50% marks in aggregate, shall be eligible to apply for admission as per the University Admission Policy.
6.2	UG Degree Programmes with Double Major shall be provided only to those students

	who secure a minimum of an overall 7.5 CGPA or 75% marks or higher. When both CGPA & Marks % are available, the CGPA score will be the deciding parameter.
6.3	Eligibility criteria, including those for multiple entry, shall follow the Multiple Entry - Multiple Exit in State Universities of Jharkhand Regulations, 2024.
6.4	The validity of credits earned/kept in the Academic Bank of Credits shall follow the Implementation of Academic Bank of Credits in State Universities of Jharkhand Regulations, Jharkhand, 2024
7. Selection Criterion for Admission	
7.1	The total number of seats for the B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (FYUGP) is 50; however, the Vice-Chancellor has the authority to change the course intake.
7.2	Reservation norms of the Government of Jharkhand shall be followed as amended from time to time.
8. Student Progression: Awarding Certificate, Diploma, And Degrees	
	This framework will allow students to exit the programme at various stages with appropriate qualifications, ensuring flexibility and recognition of their academic achievements.
8.1	**UG Certificate:** The Under Graduate Certificate will be awarded to the student seeking exit after the successful completion of two semesters with courses of a minimum of 40 credits and vocational course/ internship/project of 4 credits during the summer vacation.
8.2	**UG Diploma:** The Under Graduate Diploma will be awarded to the student seeking exit after the successful completion of four semesters with courses of a minimum of 80 credits and vocational course/ internship/ project of 4 credits during the summer vacation.
8.3	**Bachelor's Degree:** The Bachelor's Degree will be awarded to students seeking exit after the successful completion of six semesters with a minimum of 120 credits and the internship of 4 credits (i.e. total 124 credits). It is mandatory to complete the internship of a total of 4 credits in any of the semesters during the first three years of the B.Sc. (Hons.) program. Programme in Computer Applications and Cyber Security (Four Year).
8.4	**Fourth Year of B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year)- Three Pathways:** Upon completion of the three-year Bachelor's Degree, students can choose from three distinct alternatives for further specialization in their fourth year, based on their academic performance, personal choice, and the availability of seats. The three distinct alternatives are: • **Bachelor's Degree (Honours with Research)** • **Bachelor's Degree (Honours)** • **Bachelor's Degree (Postgraduate Diploma)**
	8.4.1 Bachelor's Degree (Honours with Research): Students who will secure a

	minimum of 7.5 CGPA in their three-year Bachelor's Degree are eligible for the "Bachelor's Degree (Honours with Research) This pathway involves completing a research project in the major discipline under the guidance of a faculty member of the Department and taking advanced-level courses that support the research project. Successful completion of these studies, resulting in a total of 164 credits, including 12 credits from a research project by the end of the eighth semester, leads to a Bachelor's Degree (Honours with Research). ***Note:*** *The Department can offer a 4-year UG Degree (Honours with Research) only when it has the required infrastructure such as library access to journals, computer labs and software, laboratory facilities to carry out experimental research work, and at least two permanent faculty members who are recognized as Ph.D. supervisors.*
	8.4.2 Bachelor's Degree (Honours): In this pathway, during the 7th and 8th semesters, students will undertake advanced-level courses in both major and minor streams to earn a UG Degree (Honours). The research component required for a Bachelor's Degree (Honours with Research) will be replaced by these advanced-level courses. Successful completion of these studies, resulting in a total of 164 credits by the end of the eighth semester, leads to a Bachelor's Degree (Honours).
	8.4.3 Bachelor's Degree (Postgraduate Diploma): This pathway will offer students the opportunity to elevate their qualifications and expertise to align with the demands of the job market and laboratory/industry in their chosen field during the fourth year of B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year). Successful completion of these studies, resulting in a total of 164 credits by the end of the eighth semester, leads to a Bachelor's Degree (Postgraduate Diploma).
PART IV: TYPE OF COURSES	
	In the first three years, students will complete Core Courses for foundational knowledge, Multidisciplinary Courses for broad knowledge, and Ability Enhancement Courses for academic skills. Additionally, Value Added and Skill Enhancement Courses will provide practical skills, and an internship offers real-world exposure. In the fourth year, based on the desired qualification, students will choose advanced-level courses for a Bachelor's Degree (Honours), a significant research project for a Bachelor's Degree (Honours with Research), or Postgraduate Diploma Courses for specialized professional roles or further education.
9.1	**Core Courses (Major & Minor)**
	Under the B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year), Core Courses include both Major and Minor subjects. Major courses will focus on the primary field of study, offering essential in-depth knowledge and skills, while Minor courses will allow exploration of additional areas, broadening academic and professional competencies. Graduates must demonstrate a general understanding across natural sciences, social sciences, humanities, interdisciplinary studies, and vocational education, along with an in-depth study in one area. Major courses will cover nearly half of the curriculum, with supportive introductory courses offered in the first two semesters. These courses will provide a broad intellectual experience and prerequisites for both major and

	minor subjects. Minors will be pursued from the third to eighth semesters, with options indisciplinary, interdisciplinary, and skill-based vocational courses related to the chosen major or vocational programme. In the fourth year, Core Courses transits to advanced-level courses for specialized training. For a Bachelor's Degree (Honours), the curriculum includes 10 advanced courses of 40 credits to deepen expertise. For a Bachelor's Degree (Honours with Research), students will complete 5 major courses, 2 minor courses, and a 12-credit research project. This includes research methodology and practical components, preparing students for professional roles or further academic pursuits.
9.2	**Associated Core Courses**
	There will be associated core courses offered at the beginning of the B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) in the first two semesters, which are designed to support the core subject chosen as a major. These supportive associated courses are broad in scope and introductory in nature, providing a broad intellectual experience that forms an essential part of a holistic education. The credit earned for associated core courses may be considered for the credit requirement for a minor.
9.3	**Common Courses**
	All B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) students must complete a set of Common Courses, totalling 36 credits across five sub-divisions. These courses provide a broad knowledge base and skills applicable across disciplines. The credit distribution is: • Multi-Disciplinary Courses (MDC): 9 Credits • Ability Enhancement Courses (AEC): 8 Credits • Skill Enhancement Courses (SEC): 9 Credits • Value Added Courses (VAC): 6 Credits • Indian Knowledge System (IKS) & Awareness Module: 4 Credits
	9.3.1 Multi-Disciplinary Courses (MDC) All undergraduate students must complete three introductory-level Multidisciplinary Courses (MDC) in Semesters I, II, and III, each carrying three credits, totalling nine credits. These courses must be distinct from their Core Courses and cannot be repeated from higher secondary education. The aim is to promote critical thinking, team-based intellectual activities, and analytic skills across different disciplines. This structure diversifies their education and cultivates essential inter-disciplinary skills for modern professional environments.
	9.3.2 Ability Enhancement Courses (AEC) The Ability Enhancement Courses (AEC) under B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) is aimed at enhancing students' communication skills for the modern job needs. Spanning the first four semesters, these courses include four modules, each worth two credits, focused on developing core linguistic skills such as critical reading and academic writing. They will enable students to articulate their arguments, present their thinking clearly, and recognize the importance of language as a mediator of knowledge and identity.

	9.3.3 Skill Enhancement Courses (SEC) The Skill Enhancement Courses (SEC) under B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) is specifically aimed at addressing the vital need for computer literacy, digital crime investigation and management skills among students of Computer Applications and Cyber Security. Spread across the first four semesters, these courses offer three modules, each providing three credits, focused on cultivating essential computer skills, field practices and related competencies. These courses are critical in equipping students with the technological skills required to thrive in the modern recruitment criterion, ensuring they are well-prepared to meet the demands of an increasingly digital world.
	9.3.4 Value Added Courses (VAC) Value Added Courses (VAC) within the B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) offers focused educational enrichment to broaden students' perspectives and enhance their overall well-being. Each course, worth 2 credits, aims to cultivate a deeper appreciation and awareness of cultural, physical, and environmental health. "Understanding India" provides insights into the country's diverse cultural and historical landscapes. "Health, Wellness, Yoga & Sports" encourages a holistic approach to physical health and mental well-being. "Environmental Studies" equips students with crucial knowledge about sustainable practices and environmental conservation. Together, these courses prepare students to be well-rounded individuals who can contribute thoughtfully to society.
	9.3.5 Indian Knowledge System (IKS) & Awareness Module The National Educational Policy 2020 (NEP 2020) recommends incorporating the Indian Knowledge System (IKS) into the curriculum at all levels of education. The 2-credit course on IKS, under value-added courses, is aimed to provide a comprehensive introduction to the role of IKS, particularly in the development of different disciplines of Computer Applications and Cyber Security. This course aims to familiarise students with India's rich cultural, philosophical, scientific, and technical heritage, promoting an appreciation for traditional knowledge systems and their applications in modern contexts. The Awareness Module carries 2 credits on social awareness, incorporating social ethics and common social rules. This module covers fundamental as well as contemporary topics. This course provides a reasonable balance between the breadth and depth of topics in two separate parts. Part 1 (approximately 10 hours) will cover several basic topics briefly, such as road safety, sexual harassment, diversity and inclusion, cleanliness, important laws, etiquette in public places, general financial management, environmental conservation, basic first aid, etc. Part 2 (approximately 20 hours) will focus exclusively on one specific topic, such as (1) civic education and citizen participation in democracy, (2) drug abuse, (3) gender norms, (4) sustainable development. More topics that are closely aligned with the core intent of this course may be added on the recommendation of BoS. The Department may experiment, evaluate, and revise the course content for its effectiveness. Instead of traditional examinations, credit for this module is awarded

	based on alternative activities such as short quizzes, active participation in workshops, group presentations, community activities, and reflective write-ups, encouraging practical engagement and application of knowledge.
9.4	**Emphasis on Indian Knowledge System (IKS):**
	As per UGC guidelines, at least 5% of undergraduate programme credits must be dedicated to Indian Knowledge System (IKS) courses, exposing students to India's cultural, scientific, and philosophical heritage. At least 50% of these credits should integrate with the student's major, blending traditional knowledge with modern education. The B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) curriculum includes 9 credits for IKS: a 2-credit common course, a 3-credit multi-disciplinary course in the MDC, and IKS content in a major paper of 4 credits.
9.5	**Internship**
	The B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) curriculum requires 4 internship credits for a Bachelor's Degree. Students can either complete two 4-week internships worth 2 credits each or one 8-week internship for all 4 credits. This practical experience connects academic learning with real-world applications, offering valuable exposure to professional environments in their fields of study.
9.6	**Research Courses**
	9.6.1 Research Methodology [1x4= 4 Credits]
	In Semester VII, students will undertake a 4-credit course in Research Methodology. This core course will cover research methods relevant to their specific subject, equipping them with the foundational skills needed for conducting research. This course will be one of the compulsory core courses in Semester VII.
	9.6.2 Research Proposal - Planning and Techniques [1x4 = 4 Credits]
	Also in Semester VII, students will be engaged in a 4-credit, activity-based course focused on planning and techniques for research proposal development. This course will involve the creation of a research project or proposal, review related literature, and gather necessary data. It will encompass techniques for laboratory work, practicums, field-based projects, survey analyses, and internships.
	9.6.3 Research Internship & Dissertation/Thesis [1x8 = 8 Credits]
	In Semester VIII, students will complete an 8-credit course involving a research internship and the preparation of a dissertation/thesis. This course will include laboratory work, practicums, field projects, survey analysis, or internship-based projects. Students must submit a comprehensive research report and defend their dissertation/thesis.
10. Credit Framework	
10.1	Credit Framework for the first three years of B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) is as given in Annexure-1.
10.2	Credit Framework for fourth years of B.Sc. (Hons.) Programme in Computer

	Applications and Cyber Security (Four Year) is as given in Annexure-2.
10.3	Options for Elective courses for a chosen major are given in Annexure-3.
10.4	Credit Distribution in Elective Courses during the First Three Years of B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) is as given in Annexure-4.
10.5	Credit Distribution in Elective Courses during the Fourth Year of B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) is as given in Annexure-5.
10.6	Semester-wise Course Code and Credit Points for Single Major during the First Three Years of B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) is as given in Annexure-6.
10.7	**10.7.1** Semester-wise Course Code and Credit Points for Single Major during the Fourth Year of B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) for Bachelor's Degree (Honours with Research) is as given in Annexure-7. **10.7.2** Semester-wise Course Code and Credit Points for Single Major during the Fourth Year of B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) for Bachelor's Degree (Honours) is as given in Annexure-8. **10.7.3** Semester-wise Course Code and Credit Points for Single Major during the Fourth Year of B.Sc. (Hons.) Programme in Computer Applications and Cyber Security (Four Year) for Bachelor's Degree (with Postgraduate Diploma) is as given in Annexure-9.
11. Nature of Different Types of Courses	
11.1	**Lecture 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 is recommended.
11.2	**Tutorial Courses**
	Courses involving problem-solving and discussions relating to a field or discipline under the guidance of qualified personnel in a field of learning, work/vocation, or professional practice.
11.3	**Practicum or Laboratory Work/ Activity**
	A course requiring student to participate in a project or practical or lab 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.
11.4	**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.
11.5	**Internship**

	A course requiring students to participate in a professional activity, work experience, or cooperative education activity with an entity external to the educational institution, normally under the supervision of an expert of the given external entity. A key aspect of the internship is induction into actual work situations. Internships involve working with local industry, government, or private organizations, and similar entities to provide opportunities for students to actively engage in on-site experiential learning.
11.6	**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.
11.7	**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.
11.8	**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' shall involve activities that would expose students to the socio-economic issues in society so that the theoretical learning can be supplemented by actual life experiences to generate solutions to real-life problems.

12. Total Credits of the Course

Courses	**Nature of Courses**	**3 Year UG Credits**	**4 Yr UG Credits**
Major	Core Courses	**60**	**80**
Minor	Discipline/ Interdisciplinary/ Vocational Courses	**24**	**42**
Multidisciplinary	3 Courses	**9**	**9**
AEC	Language Courses	**8**	**8**
SEC	Computer Awareness & Skills	**9**	**9**
Value Added Courses	Understanding India, Environment Studies, Health, Wellness &Yoga	**6**	**6**
IKS & Awareness Module	One common course on Indian Knowledge System (2 credits) and one common course on Social Awareness	**4**	**4**
Research/ Dissertation/ Advanced Major Courses	Research Institutions/ 3 Courses	**---**	**12**
	Total Credits =	**120**	**160**

	Mandatory 8-week Summer Internship during the first three years for 4 Credits			
		Total Credits required for the award of Bachelor's Degree	**124**	**164**

13. Credit Hours for Different Types of Courses

	A credit is a unit by which the course work is measured. It determines the number of hours of instruction required per week over a semester (minimum 15 weeks).
13.1	**Tutorial Courses**
	One credit for tutorial work means one hour of engagement per week. In a semester of 15 weeks duration, a one-credit tutorial in a course is equivalent to 15 hours of engagement.
13.2	**Practicum or Laboratory Work/Activity**
	A one-credit course in practicum or lab work, community engagement and services, and fieldwork in a semester means two hours of engagement per week. In a semester of 15 weeks duration, a one-credit practicum in a course is equivalent to 30 hours of engagement.
13.3	**Seminar**
	A one-credit Seminar or Internship or Studio Activities or Field practice/projects or Community engagement and service means two-hour engagements per week. Accordingly, in a semester of 15 weeks duration, one credit in these courses is equivalent to 30 hours of engagement.
13.4	**Hybrid Courses**
	A course can have a combination of lecture credits, tutorial credits, and practicum credits. For example, a 4-credit course with three credits assigned for lectures and one credit for practicum shall have three 1-hour lectures per week and one 2-hour duration field-based learning/project or lab work, or workshop activities per week. In a semester of 15 weeks duration, a 4-credit course is equivalent to 45 hours of lectures and 30 hours of practicum.

PART V: EVALUATION AND PROMOTION CRITERION

14. Letter Grades and Grade Points

14.1	**Credit Weighed Marking System:** The performance of a student is evaluated in terms of the earned credit-weighted 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.
14.2	An absolute grading will be followed, where the marks are converted directly to the grades based on pre-determined class intervals.
14.3	**Letter Grades and Grade Points**
	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. A 10-point grading system with the letter grades as given will be as followed:

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

14.4 Grades and Grade Points Conversion according to a class interval of marks and their conventional equivalent is as suggested below: -

The 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	

15. 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 semesters. It is expressed up to two decimal places.

16. Computation of SGPA and CGPA

16.1 The UGC recommends the following procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)

16.2 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.

$$\mathbf{SGPA\ (Si) = \sum (C_i\ X\ G_i) / C_i}$$

where C_i is the number of credits of the i^{th} course and Gi is the grade point scored by the student in the i^{th} course.

Thus, SGPA=

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

16.3 The CGPA is also calculated in the same manner, considering all the courses undergone by a student over all the semesters of a programme, i.e.

$$CGPA = \sum (C_i\ X\ S_i) / C_i$$

where Si is the SGPA of the i^{th} semester and C_i is the total number of credits in that semester.

Thus, CGPA=

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

16.4 The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

16.5 For the merit list, in case of equality, the CGPA shall be computed beyond two decimal places till the equality is resolved.

16.6 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. A minimum of 40% marks is required to pass mid semester Internal Examination (Excluding marks assigned for attendance percentage), and External Examination.

16.7 Illustration of the Computation of GPA and CGPA

16.7.1 Illustration of Computation of SGPA

Course	**Credit**	**Grade Letter**	**Grade Point**	**Credit Point (Credit x Grade)**
Course 1	3	A	8	3 x 8 = 24
Course 2	4	B+	7	4 x 7 = 28
Course 3	3	B	6	3 x 6 = 18
Course 4	3	O	10	3 x 10 = 30
Course 5	3	C	5	3 x 5 = 15

Course 6	4	B	6	4 x 6 = 24
TOTAL =	20			139

Thus, SGPA = 139/20 = 6.95

16.7.2 Computation of CGPA

Semester 1	**Semester 2**	**Semester3**	**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		

Thus, CGPA = $\frac{(20 \times 6.95) + (20 \times 7.80) + (20 \times 7.0) + (20 \times 8.40) + (20 \times 7.30) + (20 \times 8.60)}{20+20+20+20+20+20}$

$= \frac{139+156+140+168+146+172}{120} =$ **7.67**

16.7.3 Transcript (Format): Transcript will be issued by the University for each semester, and a consolidated transcript indicating the performance in all semesters.

16.7.4 Conversion of CGPA into Percentage: The University follows the grading pattern (mentioned in 14.3 and 14.4) in an examination and the formula for S.G.P.A. and C.G.P.A (mentioned in 16.2 and 16.3), and the Conversion formula for C.G.P.A into Percentage are given below:

Percentage of Marks in Aggregate = (C.G.P.A) * 9.5

17.	**Evaluation of Learning Outcome**
17.1	Semester Internal Theory Examination in Major, Minor, Research Courses, and other courses will be organized at the University level.
17.2	For the units of evaluation (namely tests, seminars, presentations, class performance, fieldwork, thesis and others) the weightage assigned to each of such units in respect of each course shall be determined by Board of Studies and shall be made known to the students at the beginning of the academic session of the semester.
17.3	The question papers for the examinations shall be set by the external examiners from a panel approved by the Controller of Examinations in such a manner as to ensure that they cover the entire syllabus of the concerned course.
17.4	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.
17.5	There shall be only one End Semester Theory Examination in each semester for each paper separately of following durations:

	75 marks = 3 Hours 50 marks = 2 Hours
17.6	There shall be only one Practical Examination (each of 4 hours) in each semester for each paper separately.
17.7	End Semester Practical Examinations will be conducted by One External & One Internal Examiners.
17.8	There will be Only One Semester Internal Examination in Major, Minor, and Research Courses, which will be organized at the Department level.
17.9	Out of 100 or 75 Marks, the Semester Internal Theory Examination (each of 1 hour) in the Practical subjects will be of 15 marks, and in non-practical subjects will be of 25 marks.
17.10	15 Marks in Theory Examination of Practical subjects may include 10 Marks questions from the Written Examination/ Assignment/ Project/ Tutorial, wherever applicable, and 5 marks will be awarded on the attendance/overall class performance in the semester.
17.11	25 Marks in Theory Examination of Non-Practical subjects may include 20 Marks questions from Written Examination/ Assignment/ Project/ Tutorial, wherever applicable, and 5 marks will be awarded on the attendance/ overall class performance in the semester.
17.12	To convert attendance into marks following range will be followed:

Attendance Percentage	Marks Assigned
75% - 80%	1
80%<Attendance< 85	2
85%<Attendance< 90	3
90%<Attendance< 95	4
95%<Attendance< 100	5

17.13 Marks distribution will be as follows:

Subjects	Credits	FM	Mid Semester Internal Examination	End Semester University Examination
Ability Enhancement Courses	2	50	---	50
Value Added Courses	2	50	---	50
Skill Enhancement Courses	3	75	15	60
Multidisciplinary Courses	3	75	25	50
Minor Courses	4	100	25	75
Major Courses	4	100	25	75

Advanced Major	4	100		25	75	
Research Courses i. Research Methodology (Core course) (F.M. = 100) ii. Research proposal (Planning and Techniques) (F.M. = 100) iii. Thesis and others (F.M. = 200)	4 4 8	100 100 200		25 25 ---	75 75 200	
Internship	4	100		---	Grade Points awarded by University	
Skill Enhancement Courses	3	75		**T** 15 (10+5)	**T** 50	**P** 10
Multidisciplinary Courses	3	75		25	50	
Non-Practical Subjects (MJ/MN)	4	100		25	75	
Practical Subjects (MJ/MN)	4	**E** 75	**M** 25	**T+P** 25 (10+10+5)	**T** 50	**P** 25

17.14	**Medium of Instruction and Examination:** The medium of instruction and the medium of examination in all the subjects shall be Hindi/ English.
18. Promotion Criteria	
18.1	All the students will be promoted in Odd Semesters (I, III, V, VII).
18.2	To get a promotion from Semester II to Semester III, from Semester IV to Semester V, and from Semester VI to Semester VII, a student must secure a minimum of 4 CGPA.
18.3	Every student who fails to obtain promotion **as per clause 18.2** shall have to repeat the entire academic year.
18.4	However, it will be necessary to obtain a minimum credit (4) to pass in each of the courses individually before completion of the course.
18.5	Credits earned from recognized online courses may be considered a component for fulfilling the criteria for promotion. If any student fails to secure passing marks in a course offered through the regular offline mode in the university, then they may be allowed to procure the required credits from any recognized online course offered by SWAYAM, MOOCs, or other sources designated/approved by the University.

19. Repeat Examination	
19.1	Any student who secures an F grade in a subject shall be eligible to write the repeat examination for that subject in the next academic year, provided: No medal/cash prize/or any other rank shall be given individually or overall University ranks/medals to be given to the repeaters or improvement examination holders. Passing on the first attempt with the highest marks only will be eligible for any kind of medal/prizes/rank.
19.2	**Repeat of Internal Components** Any student who seeks to write the repeat examination for any subject in the next academic year shall have to repeat only the internal components in which he/she obtained less than 40% of the total marks allotted for that component.
20. Dissertation and Evaluation	
20.1	**Submission of Dissertation:**
	The student will be allowed to submit his/her thesis as and when the supervisor is satisfied with the progress and completion of the research work. The project work should be original research. The student will have to submit their thesis in four copies for evaluation. (One for Internal Examiner, one for External Examiner, one for Library, and one for student). The thesis should include a certificate of the work carried out by the student, duly signed by the student, supervisor, and HOD of the Department.
20.2	**Evaluation of the Dissertation/Thesis**
	The student will have to defend his/her research work in front of a board in a Pre-Submission Presentation. The internal examiner with an external examiner appointed by the CoE will do the assessment of the project work jointly. If the examiners decide that the performance of the student in the project work as well as in oral presentation is unsatisfactory, the student will have to conduct additional experiments suggested by the examiners, rewrite the Dissertation/Thesis, and resubmit. The evaluation will consider the following: • Project dissertation design • Methodology and content depth • Participation in an internship programme with a reputed organization • Application of research techniques in data collection • Data Analysis • Report presentation • Presentation style • Results and discussion • Future scope • References
20.3	Marks distribution will be as follows: 20.3.1 Assessment of Project Synopsis: 50 marks 20.3.2 Assessment of Project Thesis: 100 marks 20.3.3 Viva-voce: 50 marks

21. Credit for online courses	
	40% of the credits in any category may be earned through the online courses that are approved by the University as per the existing UGC regulations. This percentage would change as per the update in the concerned regulation of UGC.
PART VI: ATTENDANCE	
22. Attendance	
22.1	No student shall be eligible for the end semester examination in a subject if the student concerned has not attended a minimum of 75% of the classes held in the subject. *Provided* that all the tutorials and practical training conducted in the subject for which attendance has been recorded may also be used for the calculation of the total percentage of attendance of a student.
22.2	In case of any shortage of attendance below the threshold limit of 75%, the concerned student will be debarred from appearing in the end semester examination. The debarred students shall not be allowed to take end semester examination in the same academic year. All debarred students (either due to a shortage of attendance or due to any academic misconduct) are allowed to take the examination of the debarred subject in the next academic year only. Once a student writes a repeat examination in a subject, due to failure in the end semester examination or any other reason, an annotation of "R" is made beside the concerned subject on the transcript or marks statement of the concerned student.
23. Condonation of Absence	
23.1	If a student is short of attendance due to illness, participation in sports or other academic events with approval of the University, extra- curricular activities, etc. then shortage of up to 10% attendance shall be condoned by the Vice-Chancellor on the specific recommendation of the Head, Department of Cyber Defence.
	Explanations: - (a) University-approved competitions, Conferences, Seminars, Workshops, and other activities mean those approved by the Vice-Chancellor. (Students shall submit an application prior to the Vice Chancellor, duly recommended by the Head, with all relevant documents to be considered for being University approved.)
	(b) Medical reasons mean a contagious disease or any disease for which a student has been admitted to a hospital for inpatient care. Provided that medical reasons may also include a case of a psychological condition, wherein it is certified by the counsellor engaged by the University that the concerned student requires a prolonged leave of absence for treatment and recuperation from the condition in question.
23.2	**Indication of Debarred in Transcript**
	The transcript of a student who had been debarred from appearing in end semester exam due to a shortage of attendance or any other academic misconduct in the previous academic year shall carry the letter "D" besides his/her grades in the

	concerned subjects for which he/she was debarred.
PART VII: PLAGIARISM AND ALLIED ACADEMIC MISCONDUCT	
24. Cautionary Statement	
	Students are expected to exercise the greatest degree of caution in their conduct, in protecting their work and in ensuring that nobody has any opportunity to use it in an unauthorised manner.
24.1	**'Academic Misconduct' includes, but is not limited to Plagiarism:** Failure to cite or otherwise acknowledge in any paper, exercise tutorial, essay, or project submitted for credit, arguments, or phrases gained from another source, including but not limited to published text or another person's work.
24.2	**Plagiarism:** Failure to cite or otherwise acknowledge in any paper, exercise, tutorial, essay, or project submitted for credit, arguments, or phrases gained from another source, including but not limited to published text or another person's work.
24.3	**Cheating/ Use of Unfair Means:** Violating any specific instruction given by the course instructor or unauthorized use of information during any evaluated assignment or exercise.
24.4	**Multiple Submissions:** The submission of one piece of work in more than one offering or in any two exercises for credit. Explanation: If a student makes a substantial addition to any work previously submitted for credit, it shall not amount to multiple submissions.
24.5	**Work of Another Author:** The submission of work, a substantial part of which has been prepared by another, as one's own. Explanation: If a student got a friend to proof read his/her paper and point out prominent grammatical/ typographic errors, this would not count as substantial help. However, if the friend re-wrote a significant part of the paper, this would count as substantial help.
25. Penalties	
	Students who were found indulged in any of the academic misconduct shall be called for proper explanation by the BoS. The board may there upon recommend the revisions in thesis or may cancel it.
PART VIII: MISCELLANEOUS	
26.	**Removal of Difficulties**
26.1	If any difficulty arises in giving effect to the provisions of these Regulations, the Vice-Chancellor, may by order, do anything not inconsistent with spirit of these Regulations for the purpose of removing the difficulties
26.2	Without any prejudice to the generality of the preceding provision, the Vice-Chancellor may by order, alternate models of Assessment and Evaluation in case of any public health emergency, natural calamities or other similar circumstances.
26.3	Every order under this Regulation shall be laid at the earliest before the Academic Council for ratification.

ANNEXURES

Annexure 1: Credit Framework for First Three Years of FYUGP

Academic level	Level of courses	Semester	**MJ**: Discipline-specific courses- core or major (60)	**AC**: Associated core courses from the discipline /interdisciplinary/vocational (8)	**ELC**: Elective courses may be opted from four paths (follow annexure [3,4 & 5] (16)	**MDC**: Multidisciplinary courses (from a pool of courses) (9)	**AEC**: Ability enhancement courses (modern Indian language and English) (8)	**SEC**: Skill Enhancement Courses (9)	**VAC**: Value-added course (6)	**IKS**: (i) Indian knowledge system (2) & (ii) social awareness (2)	**RC**: Research courses (12)	**AMJ**: Advanced courses instead of Research (12)	Total Credits	**IAP**: Internship/apprenticeship/ project/vocational course/ dissertation (4)
	1	2	3 (80)	4 (32)		5	6	7	8	9	10	11	12	13
Level 4.5	Level 100-199: Foundation or Introductory courses	1	4	4	----	3	2	3	2	2	---	---	20	4
		2	4	4	----	3	2	3	2	2	---	---	20	
Exit poin	**Undergraduate certificate provided with summer internship/project/vocational course/dissertation (4 credits)**													
Level 5	Level 200-299: intermediate Level courses	3	4+4	---	4	3	2	3	---	---	--	---	20	
		4	4+4+4	---	4	---	2	---	2	---	--	---	20	
Exit point	**Undergraduate diploma provided with summer internship/project/vocational course/dissertation (4 credits)**													
Level 5.5	Level 300-399: Higher level courses	5	4+4+4+4	---	4	---	---	--	--	---	---	--	20	
		6	4+4+4+4	---	4	---	---	--	--	---	---	--	20	
Exit point	**Bachelor's degree with summer internship/project/vocational course/dissertation (4 credits)**												120	+4

Annexure 2: Credit Framework for Fourth Years of FYUGP

Academic level	Level of courses	Semester	**MJ**: Discipline-specific courses- core or major (60)	**AC**: Associated core courses from the discipline /interdisciplinary/vocational (8)	**ELC**: Elective courses may be opted from four paths (follow annexe [3,4 & 5] (16)	**MDC**: Multidisciplinary courses (from a pool of courses) (9)	**AEC**: Ability enhancement courses (modern Indian language and English) (8)	**SEC**: Skill enhancement courses (9)	**VAC**: Value-added course (6)	**IKS**: (i) Indian knowledge system (2) & (ii) social awareness (2)	**RC**: Research courses (12)	**AMJ**: Advanced courses instead of Research (12)	Total Credits	**IAP**: Internship/apprenticeship/ project/vocational course/ dissertation (4)
	HONOURS WITH RESEARCH													
	1	2	3(80)	4(32)		5	6	7	8	9	10	11	12	13
Level 6	Level 400-499: Advanced courses	6	4+4+4	---	4	---	----	---	---	---	4	---	20	----
		7	4+4	---	4	---	---	---	---	---	8	---	20	
	Exit point: Bachelor's degree with Honours with research												**OR**	
OR	**HONOURS**													
Level 6	Level 400-499: Advanced courses	6	4+4+4	---	4	---	---	---	---	---	--	4	20	
		7	4+4	---	4	---	---	---	---	---	--	4+4	20	
	Exit point: Bachelor's degree with Honours												**OR**	
OR	**PG. DIPLOMA**													
Level 6	Level 400-499: Advanced courses	6	4+4+4	---	4	---	---	--	--	---	---	4	20	
		7	4+4	---	4	---	---	--	--	---	---	4+4	20	
	Exit point: PG. Diploma degree												160	+4

Annexure 3: Options for Elective Courses

PATH A	PATH B	PATH C	PATH D
ELC-A: Elective courses from interdisciplinary subjects 1& 2 (24)	**ELC-B: Elective courses from the discipline (24)**	**ELC-C: Elective courses from vocational (24)**	**ELC-D: Elective courses from the discipline for Double Major (48)**
This pathway may be recommended for students who wish to develop core competency in multiple disciplines of study. In this case, the credits for the minor pathway shall be distributed among the constituent disciplines/subjects. If students pursuing FYUGP are adopted a UG Degree in a major discipline, they are eligible to mention their core competencies in the disciplines of their choice if they have earned 12 credits each from pathway courses of two particular disciplines. In the first 3 years of FYUGP, this pathway is composed of one major discipline with 60 credits from 15 courses and two other disciplines, with 12 credits from 3 courses in each discipline. In this pathway, if students choose one of the two disciplines for 12 credits in one discipline then they should choose a different discipline for the other 12 credits. If the students continue to the fourth year of FYUGP, the students need to earn an additional 4 credits in both disciplines.	This pathway may be recommended to those students who wish for an in-depth study in more than one discipline, with a focus on one discipline (major) and relatively less focus on the other (minor). If the students exit at the end of the third year of FYUGP, they are awarded a major degree in a particular discipline and a minor in another discipline of their choice, if they earn a minimum of 24 credits from the courses in the minor discipline. If the students continue to the fourth year of FYUGP, they should earn a minimum of 32 credits in the minor discipline, to be eligible for a UG degree (Hons) with a major and minor. For this, in the fourth year, they should earn an additional minimum of 8 credits through 2 courses in the minor discipline.	This pathway may be recommended to those students who wish for exposure to a vocational discipline in addition to the in-depth study in the Major discipline. The credit requirements for Major and Vocational Minor disciplines in this pathway are the same as those for Major with Minor pathway, except that the Minor courses are in a vocational discipline. If students exit at the end of the third year of FYUGP, they are awarded a Major Degree in a particular discipline and a Minor in vocational discipline of their choice, if they earn a minimum of 24 credits from the Vocational courses. If the students continue to the fourth year of FYUGP, they should earn a minimum of 32 credits in the vocational discipline. For this, in the fourth year, they should earn an additional minimum of 8 credits through 2 courses in the Vocational discipline.	To secure the required minimum credits in each discipline, students who wish to opt for a Double Major should include the credits earned by them from the Multi-Disciplinary Courses, Skill Enhancement Courses, and Value-Added Courses offered by the respective Major disciplines. The Double Major pathway is extended to the fourth year. Shifting to a double major from a minor in the third semester will be allowed subject to clearance of the courses of double major not studied earlier in succeeding sessions. In the fourth year, the student can continue to earn the required credits in either Major A or Major B to qualify for a UG Degree (Honours)/ UG Degree (Honours with Research) in A or B. If he/she opts to continue with Major B in the fourth year, he/she should earn an additional 16 credits of 300-399 level in Major B through mandatory online courses.

Annexure 4: Credit Distribution in Elective Courses during the First Year of FYUGP

Academic Level	Level Courses	Semester	**Path A** **ELC**: Elective Courses from Interdisciplinary Subjects 1 & 2(24)		**Path B** **ELC**: Elective Courses from discipline (24)	**Path C** **ELC:** Elective Courses from vocational (24)	**Path D:** **ELC:** Elective courses from discipline from Double Major (48)
	1	2	3A. Subject 1	3B. Subject 2	4	5	6
Level 4.5	Level 100-199: **Foundation or Introductory courses**	I	---	---	---	---	4+4
		II	---	---	---	---	4+4
		Exit Point: Bachelor's Degree with Hons. with Research					
Level 5	Level 200-299: **Intermediate-level courses**	III	4	---	4	4	4+4
		IV	---	4	4	4	4+4
		Exit Point: Bachelor's Degree with Hons					
Level 5.5	Level 300-399: **Higher-level Courses**	V	4	---	4	4	4+4
		VI	---	4	4	4	4+4
		Exit Point: P. G. Diploma Degree					

Annexure 5: Credit Distribution in Elective Courses during the Fourth Year of FYUGP

Academic Level	Level Courses	Semester	**Path A** **ELC**: Elective Courses from discipline (8)		**Path B** **ELC**: Elective Courses from Interdisciplinary Subjects 1 & 2 (8)	**Path C** **ELC:** Elective Courses from vocational (8)	**Path D:** **ELC:** Elective courses from discipline from Double Major (16)
	1	2	3A. Subject 1	3B Subject 2	4	5	6
Level 6	Level 400-499: **Foundation or Introductory courses**	VII	4	---	4	4	4+4
		VIII	4	---	4	4	4+4
Exit Point: Bachelor's Degree with Hons. with Research							

Annexure 6: Semester-wise Course Code and Credit Points for Single Major during the First Three Years of FYUGP

Semester	Common, Introductory, Major, Minor, Vocational & Internship Courses		Credits	
	Code	Papers	Paper	Semester
I	AEC-1	Language and Communication Skills (MIL-1: Modern Indian language Hindi/ English)	2	20
	VAC-1	Value Added Courses-1	2	
	IKS-1	Indian Knowledge System-I/Social Awareness Activities	2	
	SEC-1	Skill Enhancement Courses-I	3	
	MDC-1	Multi-disciplinary Courses-I	3	
	AC-1	Associated core courses from discipline/Interdisciplinary/ vocational	4	
	MJ-1	Major Paper 1 (Disciplinary/ Interdisciplinary Major)	4	
II	AEC-2	Language and Communication Skills (MIL-1: Modern Indian language Hindi/ English)	2	20
	VAC-2	Value Added Courses-2	2	
	IKS-2	Indian Knowledge System-2/Social Awareness Activities	2	
	SEC-2	Skill Enhancement Courses-2	3	
	MDC-2	Multi-disciplinary Courses-2	3	
	AC-2	Associated core courses from discipline/Interdisciplinary/ vocational	4	
	MJ-2	Major Paper 2 (Disciplinary/ Interdisciplinary Major)	4	
III	AEC-3	Language and Communication Skills (MIL-2: MIL including TRL)	2	20
	SEC-3	Skill Enhancement Courses-3	3	
	MDC-3	Multi-disciplinary Courses-3	3	
	ELC-1	Elective courses from discipline/Interdisciplinary/ vocational	4	
	MJ-3	Major Paper 3 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-4	Major Paper 4 (Disciplinary/ Interdisciplinary Major)	4	
IV	AEC-4	Language and Communication Skills (MIL-2: MIL including TRL)	2	20
	VAC-3	Value Added Courses-3	2	
	ELC-2	Elective courses from discipline/Interdisciplinary/ vocational	4	
	MJ-5	Major Paper 5 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-6	Major Paper 6 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-7	Major Paper 7 (Disciplinary/ Interdisciplinary Major)	4	
V	ELC-3	Elective courses from discipline/Interdisciplinary/ vocational	4	20

	MJ-8	Major Paper 8 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-9	Major Paper 9 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-10	Major Paper 10 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-11	Major Paper 11 (Disciplinary/ Interdisciplinary Major)	4	
VI	ELC-4	Elective courses from discipline/Interdisciplinary/ vocational	4	20
	MJ-12	Major Paper 12 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-13	Major Paper 13 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-14	Major Paper 14 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-15	Major Paper 15 (Disciplinary/ Interdisciplinary Major)	4	
Total Credits excluding one Internship (IAP) of 4 credits =			**120**	**120**

Annexure 7: Semester-wise Course Code and Credit Points for Single Major during the Fourth Year of FYUGP for Bachelor's Degree (Honours with Research)

Semester	**Common, Introductory, Major, Minor, Vocational & Internship Courses**		**Credits**	
	Code	**Papers**	**Paper**	**Semester**
VII A	ELC-5	Elective courses from discipline/Interdisciplinary/ vocational	4	20
	MJ-16	Major Paper 16 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-17	Major Paper 17 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-18	Major Paper 18 (Disciplinary/ Interdisciplinary Major)	4	
	RC-1	Research Proposal – Planning & Techniques (Disciplinary/ Interdisciplinary Major)	4	
VIII A	ELC-6	Elective courses from discipline/Interdisciplinary/ vocational	4	20
	MJ-19	Major Paper 17 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-20	Major Paper 18 (Disciplinary/ Interdisciplinary Major)	4	
	RC-2	Research Internship/ Field Work/ Project/ Dissertation/ Thesis	8	
Total Credits excluding one Internship of 4 credits =			**160**	**160**

Annexure 8: Semester-wise Course Code and Credit Points for Single Major during the Fourth Year of FYUGP for Bachelor's Degree (Honours)

Semester	Common, Introductory, Major, Minor, Vocational & Internship Courses		Credits	
	Code	Papers	Paper	Semester
VII B	ELC-5	Elective courses from discipline/Interdisciplinary/ vocational	4	20
	MJ-16	Major Paper 16 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-17	Major Paper 17 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-18	Major Paper 18 (Disciplinary/ Interdisciplinary Major)	4	
	AMJ-1	Advanced Major Paper 1 (Disciplinary/ Interdisciplinary Major)	4	
VIII B	ELC-6	Elective courses from discipline/Interdisciplinary/ vocational	4	20
	MJ-19	Major Paper 19 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-20	Major Paper 20 (Disciplinary/ Interdisciplinary Major)	4	
	AMJ-2	Advanced Major Paper 2 (Disciplinary/ Interdisciplinary Major)	4	
	AMJ-3	Advanced Major Paper 3 (Disciplinary/ Interdisciplinary Major)	4	
Total Credits excluding one Internship of 4 credits =			**160**	**160**

Annexure 9: Semester-wise Course Code and Credit Points for Single Major during the Fourth Year of FYUGP for Bachelor's Degree (With Postgraduate Diploma)

Semester	Common, Introductory, Major, Minor, Vocational & Internship Courses		Credits	
	Code	Papers	Paper	Semester
VII C	ELC-5	Elective courses from discipline/Interdisciplinary/ vocational	4	20
	MJ-16	Major Paper 16 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-17	Major Paper 17 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-18	Major Paper 18 (Disciplinary/ Interdisciplinary Major)	4	
	JOC-1	Skill Based Job Oriented paper (Disciplinary/ Interdisciplinary Major)	4	

VIII C	ELC-6	Elective courses from discipline/Interdisciplinary/ vocational	4	20
	MJ-19	Major Paper 19 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-20	Major Paper 20 (Disciplinary/ Interdisciplinary Major)	4	
	JOC-2	Skill Based Job Oriented paper (Disciplinary/ Interdisciplinary Major)	4	
	JOC-3	Skill Based Job Oriented paper (Disciplinary/ Interdisciplinary Major)	4	
Total Credits excluding one Internship of 4 credits =			**160**	**160**