CURRICULUM AND CREDIT FRAMEWORK FOR UNDERGRADUATE PROGRAMMES (CCFUGP)



WITH EFFECT FROM THE SESSION 2024-25

Developed by Centre for Curriculum Design and Development

MAHARSHI DAYANAND UNIVERSITY ROHTAK (HARYANA)

1.0. Introduction

Education plays a significant role in the holistic development of the student. A robust, flexible, multidisciplinary education framework with "Learner Centric Pedagogy" could effectively transform a student into a global citizen of tomorrow to catalyze nation's growth and development. The National Education Policy 2020 (NEP 2020) outlines the goals, objectives, and policies for the development and improvement of education across all levels. The NEP 2020 is a comprehensive and ambitious policy that aims to transform the Indian education system and makes it more student-centric, holistic and to align with the needs of the 21st century. Some of the key features of the NEP 2020 include:

- Multidisciplinary, flexible and equitable education framework for the holistic development of learners
- Emphasis on skill-based education, vocational education and apprenticeship/internship
- Encourage critical thinking, creativity and problem-solving skills
- Increase the Gross Enrollment Ratio (GER) in higher education to 50% by 2035
- Promotion of Indian languages, art, culture and heritage
- Emphasis on Multidisciplinary, Interdisciplinary, and Transdisciplinary research to develop innovative solutions to overcome societal issues

NEP 2020 advocates that a holistic and multidisciplinary education would aim to develop all capacities of human beings -intellectual, aesthetic, social, physical, emotional, and moral in an integrated manner. Such a holistic education approach is necessarily required at under graduate level. *The 4-year multidisciplinary Bachelor's programme, however, shall be the preferred option since it allows the opportunity to experience the full range of holistic and multidisciplinary education in addition to a focus on the chosen major and minors as per the choices of the student.* The holistic four year under graduate education with multiple entry and exit provisions will help in matching of the undergraduate education to international standards and will facilitate the student mobility for higher studies, research and employability across the globe. The CCFUGP developed for State Universities and their affiliated colleges underlines the heart and soul of NEP 2020.

2.0. **Objectives**

The following objectives of NEP 2020 are kept in perspectives while designing the CCFUGP:

- To provide multidisciplinary and holistic education to learners to ensure the unity and integrity of all knowledge;
- To provide flexibility so that learners have the ability to choose programmes, according to their talents and interests;
- To eliminate harmful hierarchies among disciplines/fields of study and silos between different areas of learning;
- To promote creativity and critical thinking and to encourage logical decision-making and innovation;
- To promote ethics and human & constitutional values among the learners;
- > To promote multilingualism and the power of language in learning and teaching;
- > To impart life skills such as communication, cooperation, teamwork, and resilience;
- To promote outstanding research as a co-requisite for outstanding education and development; and
- To incorporate Indian Knowledge System relevant for a particular discipline or field of studies.

3.0 Scope of the Framework

- i. Curriculum and Credit Framework for Undergraduate Programmes (Multidisciplinary)
- ii. Curriculum and Credit Framework for Undergraduate Programmes (Single Major) (For students who choose to pursue single major from 1st semester)
- iii. Curriculum and Credit Framework for Undergraduate Programmes (Single Major)(For students who choose to pursue single major after 2nd semester of multidisciplinary Programmes)
- iv. Curriculum and Credit Framework for Undergraduate Programmes (Interdisciplinary)

The above framework is applicable to the programmes such as Bachelor of Science (B.Sc.), Bachelor of Arts (B.A.), Bachelor of Commerce (B.Com.), Bachelor of Computer Applications (BCA), Bachelor of Business Administration (BBA) etc.

4.0. Main features of Curriculum and Credit Framework

CCFUGP includes the following features:

- i. Opportunity for learners to choose the courses of their interest in all disciplines
- ii. Provision of multiple entry and exit options with a UG Certificate or UG Diploma or UG Degree depending on the number of credits earned
- Flexibility for students to move among the institutions through the implementation of Academic Bank of Credits (ABC)
- iv. Flexibility to switch to alternative modes of learning (Offline, ODL, Online, and Hybrid modes)
- v. Versatile curricular framework for holistic development of graduate

Definition of Keywords:

Course:

Course refers to a paper having specified credits which is a component of a programme in a discipline/subject. The course defines the learning objectives and learning outcomes. A course may be designed comprising credits for lectures/tutorials/laboratory work/field work/outreach activities/project work/internship/vocational training etc. or combination thereof.

Credit:

Credit is the weightage given to each course of study. It is the numerical value assigned to a course according to the relative importance of the contents and the contact hours required to teach the prescribed syllabi of the programme.

Discipline Specific Course (DSC)/Major Course:

Discipline specific/Major course is the discipline or subject of main focus in which the degree will be awarded. Students should secure the prescribed number of credits (atleast 50% of total credits) through Discipline Specific Course/Major Course in the major discipline.

Minor Course (MIC):

Minor discipline is the discipline that helps a student to gain a broader understanding beyond the major discipline. For example, if a student pursuing Economics as major course may choose Statistics as minor course.

Vocational Course (VOC):

Vocational Course assists student in developing workforce-relevant skills and enhance the employability of student.

Multidisciplinary Course (MDC):

A Multidisciplinary Course is an option to explore disciplines of interest beyond the choices of learners made in their major and minor disciplines.

Ability Enhancement Course (AEC):

Ability Enhancement Course aims to achieve competency in language and communication skills.

Skill Enhancement Course (SEC):

Skill Enhancement Course aims to promote skills pertaining to a particular field of study, impart practical skills, hands-on training, soft skills, etc., in order to enhance the student's employability.

Internship:

Internship is a course to develop a professional ability through an appropriate learning. The duration of Internship is of 120 hours during summer vacation.

Research Project:

Research Project is a course involving applications of knowledge in exploring, analyzing and solving real-life situations/problems.

Dissertation:

Dissertation is a long piece of academic writing based on original research.

Value Added Course (VAC):

Value Added Course aims to add the knowledge of learner beyond academic disciplines.

Semester/Academic Year

A semester comprises 90 working days and an academic year is divided into two semesters.

Academic Bank of Credit (ABC)

Academic Bank of credit is an academic service mechanism to facilitate students to become its academic account holders, thereby paving the way for seamless student mobility between or within degree-granting Higher Educational Institutions through a formal system of credit recognition, credit accumulation, credit transfers and credit redemption to promote distributed and flexible teaching-learning. ABC will digitally store the academic credits earned by students from HEIs registered with ABC for awarding degrees/ diplomas/ certificates taking into account credits earned by students.

Academic Bank Account

Academic Bank Account is an individual account with the Academic Bank of Credits opened and operated by a student, to which all academic credits earned by the Student from course(s) of study are deposited, recognized, maintained, accumulated, transferred, validated or redeemed for the purposes of the award of degree/diploma/certificates etc. by an awarding institution.

Multiple Entry and Exit Points

These are stages where the students may have options for entry and exit as per UGC Guidelines for Multiple Entry and Exit in Academic Programmes.

Credit Point

It is the product of the grade point and the number of credits for a course.

Grade Point

It is a numerical weight allotted to each letter grade on a 10-point scale.

Letter Grade

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

Semester Grade Point Average (SGPA)

The SGPA is the ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.

Cumulative Grade Point Average (CGPA)

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.

5.0. Eligibility

Senior Secondary School Leaving Certificate or Higher Secondary (12th Grade) Certificate obtained after successful completion of Grade 12 or equivalent stage of education corresponding to Level-4. However, the minimum eligibility to various UG programmes will be governed by the Ordinances of the University.

6.0. Programme Structure

The undergraduate degree programme is designed for eight semesters, or four years with multiple entry and exit options.

6.1 Major and Minor disciplines

Major discipline is the discipline or subject of main focus and the degree will be awarded in that discipline. Students should secure the prescribed number of credits (about 50% of total credits) through core courses in the major discipline.

Minor discipline helps a student to gain a broader understanding beyond the major discipline. For example, if a student pursuing an Economics major obtains a minimum of 12 credits from a bunch of courses in Statistics, then the student will be awarded B.A. degree in Economics with a Minor in Statistics.

6.2 Awarding UG Certificate, UG Diploma, and Degrees

UG Certificate: Students who opt to exit after completion of the first year and have secured 48 credits (44 credits in case of single major) will be awarded a UG certificate if, in addition, they complete 4 credits of internship during the summer vacation of the first year. These students are allowed to re-enter the degree programme within three years and complete the degree programme within the stipulated maximum period of seven years.

UG Diploma: Students who opt to exit after completion of the 2nd year and have secured 96 credits (94 credits in case of single major) will be awarded the UG diploma if, in addition, they complete 4 credits of internship during the summer vacation of the second year. These students are allowed to re-enter within a period of three years and complete the degree programme within the maximum period of seven years.

3-year UG Degree (Bachelor's Degree): Students who wish to undergo a 3-year UG programme will be awarded UG Degree in the Major discipline after successful completion of three years, securing 132 credits (136 credits in case of single major) and satisfying the minimum credit requirement as given in Table 1.

4-year UG Degree (Honours) (Bachelor's Degree with Honors): A four-year UG Honours degree in the major discipline will be awarded to those who complete a 4-year degree programme with 180 credits (184 credits in case of single major) and have satisfied the credit requirements as given in Table 1.

4-year UG Degree (Honours with Research) (Bachelor's Degree with Honors): Students who secure 75% marks and above in the first six semesters and wish to undertake research at the undergraduate level can choose a research stream in the fourth year. They should do a research project or dissertation under the guidance of a faculty member of the University/College. The research project/dissertation will be in the major discipline. The students, who secure 180 credits (184 credits in case of single major), including 12 credits from a research project/dissertation, are awarded UG Degree (Honours with Research). The students who secure 75% marks in first six semesters will be eligible to pursue UG Degree (Hons. with Research).

UG Degree Programmes with Single Major: A student has to secure a minimum of 50% credits from the major discipline for the 3-year/4-year UG degree to be awarded a single major. For example, in a 3-year UG programme, if the total number of credits to be earned is 136, a student of Physics with a minimum of 68 credits will be awarded a B.Sc. in Physics with a single major. Similarly, in a 4-year UG programme, if the total number of credits to be earned is 184, a student of Physics with a minimum of 92 credits will be awarded a B.Sc. (Hons./Hon. With Research) in Physics in a 4-year UG programme with single major.

Interdisciplinary UG Programmes: The credits for core courses shall be distributed among the constituent disciplines/subjects so as to get core competence in the interdisciplinary programme. For example, a degree in Econometrics requires courses in economics, statistics, and mathematics. The total credits to core courses shall be distributed so that the student gets full competence in Econometrics upon completion of the programme. The degree for such students will be awarded as B.Sc. in Econometrics for a 3-year UG programme or B.Sc. (Honours) / B.Sc. (Honours with Research) in Econometrics for a 4-year UG programme.

Multidisciplinary UG Programmes: In the case of students pursuing a multidisciplinary programme of study, the credits to core courses will be distributed among the broad disciplines such as Life sciences, Physical Sciences, Commerce & Management, Arts, Social Sciences, Humanities, etc., For example, a student who opts for a UG program in Life sciences will have the total credits to core courses distributed across Botany, Zoology and Human biology disciplines. The degree will be awarded as B.Sc. in Life Sciences for a 3-year programme and B.Sc. (Honours) in Life Sciences or B.Sc. (Honours with Research) for a 4-year programme without or with a research component respectively. The CCFUGP is detailed in the Table 1 to 5.

Table1: Minimum Credit Requirements to Award Degree under Each Category

S. No.	Broad Category of Course	Minimur Requiremen Guide	t as per UGC	(Multi	rogrammes disciplinary/ disciplinary)			UG Programmes (Single Major) For students who choose to pursue single major after 2 semester of multidisciplinary Programmes			ogrammes isciplinary
		3-year UG	4-Year UG	3-year UG	4-Year UG	3-year UG	4-Year UG	3-year UG	4-Year UG	3-year UG	4-Year UG
1	Discipline Specific Courses (DSC) / Major Course	60	80	72	112 (100+12*)	72	112 (100+12*)	68 [#] +16 =84	108 [#] (96 [#] +12*+16 =124)	76	112 (100 + 12*)
2	Minor Course (MIC including Vocational Courses [VOC])	24	32	24	32	24	32	24	32	24	32
3	Multidisciplinary Courses (MDC)	09	09	09	09	09	09	09	09	09	09
4	Ability Enhancement Courses (AEC)	08	08	08	08	08	08	08	08	08	08
5	Skill Enhancement Courses (SEC)	09	09	09	09	11	11	09	09	09	09
6	Value Added Courses (VAC)	06 – 08	06 - 08	06	06	08	08	06	06	06	06
7	Internship	02 – 04	02 – 04	04	04	04	04	04	04	04	04
8	Research Project / Dissertation*	-	12*	-	12*	-	12*	-	12*	0	12*
	Total	120	160	132	180	136	184	144	192	136	184

Note:*Honours students not undertaking research shall have to do 3 courses for 12 credits in lieu of a research project/Dissertation.

Credits obtained in the chosen single Major

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Semester	Discipline-Specific Courses (DSC) / Major courses	Minor(MIC)/ Vocational (VOC)/ Skill	Multidisciplinary courses(MDC)	Ability Enhancement courses(AEC)	with Hons. in One Majo Research project/ Dissertation	Value-Added Courses (VAC)	Total Credits
		Enhancement Courses (SEC)/ Internship	Courses(IVIDC)	COUISES(ALC)	Dissertation	Courses (VAC)	
	DSC - A1 @ 4 credits	MIC1 @ 4 credits	MDC1 @ 3 credits	AEC1 @ 2 credits			24
	DSC - B1 @ 4 credits	SEC1@ 3 credits**]				
	DSC - C1 @ 4 credits						
II	DSC - A2 @ 4 credits	SEC2 @ 3 credits**	MDC2 @ 3 credits	AEC2 @ 2 credits		VAC1 @ 2 credits	24
	DSC – B2 @ 4 credits					VAC2 @ 2 credits	
	DSC – C2 @ 4 credits						
Students exiting	the programme after second semes	ster and securing 52 credits in	cluding 4 credits of summ	er internship will be awar	ded UG Certificate in the releva	nt Discipline/ Subject	
111	DSC – A3 @ 4 credits	MIC2 @ 4 credits	MDC3 @ 3 credits	AEC3 @ 2 credits			24
	DSC – B3 @ 4 credits	SEC3@ 3 credits**]				
	DSC – C3 @ 4 credits						
IV	DSC – A4 @ 4 credits	MIC3(VOC)@ 4 credits		AEC4 @ 2 credits		VAC3 @ 2 credits	20
	DSC – B4 @ 4 credits						
	DSC – C4 @ 4 credits						
Students exiting	the programme after fourth semes	ter and securing 96 credits inc	luding 4 credits of summ	er internship will be award	ded UG Diploma in the relevant	Discipline/Subject	
v	DSC – A5 @ 4 credits	MIC4(VOC)@ 4 credits					20
	DSC – B5 @ 4 credits	Internship @ 4 credits#					
	DSC – C5 @ 4 credits						
VI	DSC – A6 @ 4 credits	MIC5 @ 4 credits					20
	DSC – B6 @ 4 credits	MIC6(VOC)@ 4 credits					
	DSC – C6 @ 4 credits						
Students will be	awarded 3-year UG Degree in the r	relevant Discipline/Subject up	on securing 132 credits.				
VII*	DSC – H1 @ 4 credits	SEC4 @ 4 credits					24
	DSC – H2 @ 4 credits	OR					
	DSC – H3 @ 4 credits	MIC7 (VOC) @ 4 credits					
	DSC – H4 @ 4 credits	OR					
	DSC – H5 @ 4 credits	Internship @ 4 credits					
	DSC – H6 @ 4 credits	SEC5 @ 4 credits					24
VIII*	DSC – H7 @ 4 credits	OR					
	DSC – H8 @ 4 credits	MIC8 (VOC) @ 4 credits					
(4yr UG Hon.)	DSC – H9 @ 4 credits	OR					
	DSC – H10 @ 4 credits	Internship @ 4 credits					
VIII*	DSC – H6@ 4 credits	SEC5 @ 4 credits			Research project/		24
(4yr UG Hon.	DSC – H7@ 4 credits	OR			Dissertation@		
with Research)		MIC8 (VOC) @ 4 credits			12 credits	TOTAL CREDITS	180
		OR					
		Internship @ 4 credits					

Table 2: Credit Structure for Undergraduate Programmes (Multidisciplinary with Hons. in One Major Discipline)

* Student should select one major discipline (Out of A, B, or C studied during first three years of UG Programmes) in which he/she wishes to pursue Honors. This framework is subject to modification as per UGC guidelines at the University level. The universities may decide to offer the Honors degree Programmes subject to the fulfillment of credit point table

** SEC for imparting practical skills related to Major (A, B and C)/minor.

#Four credits of internship earned by a student during summer internship after 2nd semester or 4th semester will be counted in 5th semester of a student who pursue 3 year UG Programmes without taking exit option.

Semester	Discipline-Specific	Table 3: Credit Struct Minor(MIC)/	Multidisciplinary	Ability Enhancement	Dissertation	Value-Added	Total Credit
	Courses (DSC) / Major	Vocational (VOC)/ Skill	courses (MDC)	courses (AEC)		Courses (VAC)	
	Course	Enhancement Courses (SEC)/					
•		Internship	MDC1 @			VACL @ 2 and the	22
I	DSC - A1 @ 4 credits DSC - A2 @ 4 credits	MIC1 @ 4 credits SEC1@ 3 credits	MDC1 @ 3 credits	AEC1 @ 2 credits		VAC1 @ 2 credits	22
	DSC – AZ @ 4 credits	SECT@ 3 credits	5 creaits				
II	DSC – A3 @ 4 credits	MIC2 @ 4 credits	MDC2 @	AEC2 @ 2 credits		VAC2 @ 2 credits	22
	DSC – A4 @ 4 credits	SEC2@ 3 credits	3 credits				
Students exiting t	he programme after second se	emester and securing 48 credits in	cluding 4 credits of sum	mer internship will be awar	ded UG Certificate in the relev	ant Discipline/Subject	1
Ш	DSC – A5 @ 4 credits	MIC3 @ 4 credits	MDC3 @	AEC3 @ 2 credits		VAC3 @ 2 credits	22
	DSC – A6 @ 4 credits	SEC3@ 3 credits	3 credits				
IV	DSC – A7 @ 4 credits	MIC4(VOC)@ 4 credits		AEC4 @ 2 credits		VAC4 @ 2 credits	24
	DSC – A8 @ 4 credits						
	DSC – A9 @ 4 credits						
	DSC – A10 @ 4 credits						
Students exiting t	he programme after fourth se	mester and securing 94 credits inc	luding 4 credits of summ	ner internship will be award	ded UG Diploma in the relevar	t Discipline/Subject	
v	DSC – A11 @ 4 credits	MIC5(VOC)@ 4 credits					24
	DSC – A12 @ 4 credits						
	DSC – A13 @ 4 credits	Internship @ 4 credits#					
	DSC – A14 @ 4 credits						
VI	DSC – A15 @ 4 credits	MIC6(VOC)@ 4 credits					22
	DSC – A16 @ 4 credits						
	DSC – A17 @ 4 credits	SEC3@ 2 credits					
	DSC – A18 @ 4 credits						
Students will be a	awarded 3-year UG Degree in	relevant major Discipline/Subject	upon securing 136 credi	ts.			
VII	DSC – H1 @ 4 credits	SEC4 @ 4 credits					24
	DSC – H2 @ 4 credits	OR					
	DSC – H3 @ 4 credits	MIC7 (VOC) @ 4 credits					
	DSC – H4 @ 4 credits	OR					
	DSC – H5 @ 4 credits	Internship @ 4 credits					
	DSC – H6 @ 4 credits	SEC5 @ 4 credits					24
	DSC – H7 @ 4 credits	OR					
VIII	DSC – H8 @ 4 credits	MIC8 (VOC) @ 4 credits OR					
(4yr UG Hon.)	DSC – H9 @ 4 credits	Internship @ 4 credits					
	DSC – H10 @ 4 credits	1					
VIII	DSC – H6@ 4 credits	SEC5 @ 4 credits			Research project/		24
(4yr UG Hon.	DSC – H7@ 4 credits	OR			Dissertation @	TOTAL CREDITS	184
with Research)	2	MIC8 (VOC) @ 4 credits			12 credits		
		OR					
		Internship @ 4 credits					

Table 3: Credit Structure for Undergraduate Programmes (Single Major)

#Four credits of internship earned by a student during summer internship after 2nd semester or 4th semester will be counted in 5th semester of a student who pursue 3 year UG Programmes without taking exit option.

Table 4: Credit Structure for Undergraduate Programmes (Single Major)

(For students who choose to pursue single major after 2nd semester of multidisciplinary Programmes)

Semester	Discipline-Specific	Minor(MIC)/	Multidisciplinary courses	Ability Enhancement	Dissertation	Value-Added	Total Credit
	Courses (DSC) / Major Courses	Vocational (VOC)/ Skill	(MDC)	courses (AEC)		Courses (VAC)	
		Enhancement Courses (SEC)/					
1	DSC - A1 @ 4 credits	Internship MIC1 @ 4 credits	MDC1@	AEC1 @			24
•	DSC - B1 @ 4 credits	SEC1@ 3 credits**	3 credits	2 credits			27
	DSC - C1 @ 4 credits	SECTO Sciences	5 creats	2 creatio			
11	DSC - A2 @ 4 credits	SEC2@ 3 credits**	MDC2 @	AEC2 @		VAC1 @2 credits	24
	DSC – B2 @ 4 credits		3 credits	2 credits		VAC2 @ 2 credits	
	DSC – C2 @ 4 credits	1					
Students exiting the	-	r and securing 52 credits including 4 c	redits of summer internship w	ill be awarded UG Certificate	e in the relevant Discipline /Subject		
	DSC – A3 @ 4 credits	MIC2 (VOC) @ 4 credits	MDC3 @	AEC3 @			24
	DSC – AS @ 4 credits	SEC3@ 3 credits	3 credits	2 credits			24
	DSC – A4 @ 4 credits		Scients	2 (160113			
IV	DSC – AS @ 4 credits	MIC3(VOC)@ 4 credits		AEC4 @		VAC3 @	24
	DSC – A7 @ 4 credits	inics(voc)@ + ciedits		2 credits		2 credits	24
	DSC – A8 @ 4 credits	-		2 creates		2 creans	
	DSC – A9 @ 4 credits	-					
Students exiting the	-	r and securing 100 credits including 4 d	redits of summer internship w	vill be awarded UG Diploma	in the relevant Discipline/Subject		
v	DSC – A10@ 4 credits	MIC4(VOC)@ 4 credits	· · ·				24
v	DSC – A10@ 4 credits						24
	DSC – A12@ 4 credits	Internship @ 4 credits#	-				
	DSC – A12@4 credits	internship @ 4 credits#					
VI	DSC – A14 @ 4 credits	MIC5 @ 4 credits					24
••	DSC – A15 @ 4 credits						
	DSC – A16 @ 4 credits	MIC6(VOC)@ 4 credits	-				
	DSC – A17 @ 4 credits						
Students will be aw	-	nt major Discipline/Subject upon secu	ring 144 credits.				
VII			1				
VII	DSC – H1 @ 4 credits	SEC4 @ 4 credits OR					24
	DSC – H2 @ 4 credits	MIC7 (VOC) @ 4 credits					
	DSC – H3 @ 4 credits DSC – H4 @ 4 credits	OR					
	DSC – H4 @ 4 credits	Internship @ 4 credits					
	DSC – H5 @ 4 credits	SEC5 @ 4 credits					24
	DSC – H7 @ 4 credits	OR					24
VIII	DSC – H8 @ 4 credits	MIC8 (VOC) @ 4 credits					
(4yr UG Hon.)	DSC – H9 @ 4 credits	OR					
	DSC – H10 @ 4 credits	Internship @ 4 credits					
VIII	DSC –H6@ 4 credits	SEC5 @ 4 credits			Research project/ Dissertation		24
(4yr UG Hon. with	DSC – H7@ 4 credits	OR			@	TOTAL CREDITS	192
Research)	Doc interficients	MIC8 (VOC) @ 4 credits			12 credits		152
nesearchy		OR					

#Four credits of internship earned by a student during summer internship after 2nd semester or 4th semester will be counted in 5th semester of a student who pursue 3 year UG Programmes without taking exit option.

** SEC for imparting practical skills related to Major (A, B and C)/minor.

Semester	Discipline-Specific Courses (DSC) /Major Course	Minor(MIC)/ Vocational (VOC)/Skill Enhancement Courses (SEC)/ Internship	Multidisciplinary courses (MDC)	Ability Enhancement courses (AEC)	Dissertation	Value-Added Courses (VAC)	Total Credit
I	DSC - ID1 @ 4 credits DSC - ID2 @ 4 credits	MIC1 @ 4 credits SEC1@ 3 credits	MDC1 @ 3 credits	AEC1 @ 2 credits		VAC1 @ 2 credits	22
II	DSC – ID3 @ 4 credits DSC – ID4 @ 4 credits	MIC2 @ 4 credits SEC2@ 3 credits	MDC2 @ 3 credits	AEC2 @ 2 credits		VAC2 @ 2 credits	22
Students exiting	the programme after second se	mester and securing 48 credits in	cluding 4 credits of sumr	mer internship will be awar	ded UG Certificate in the relev	ant Discipline/Subject	
111	DSC – ID5 @ 4 credits DSC – ID6 @ 4 credits	MIC3 @ 4 credits SEC3@ 3 credits	MDC3 @ 3 credits	AEC3 @ 2 credits			24
IV	DSC - ID7 @ 4 credits DSC - ID8 @ 4 credits DSC - ID9 @ 4 credits DSC - ID10 @ 4 credits DSC - ID11 @ 4 credits	MIC4(VOC)@ 4 credits		AEC4 @ 2 credits		VAC3 @ 2 credits	24
Students exiting	-	mester and securing 96 credits inc	luding 4 credits of summ	ner internship will be award	ded UG Diploma in the relevan	t Discipline/Subject	
v	DSC - ID12 @ 4 credits DSC - ID13 @ 4 credits DSC - ID14 @ 4 credits	MIC5(VOC)@ 4 credits Internship @ 4 credits#					24
VI	DSC - ID15 @ 4 credits DSC - ID16@ 4 credits DSC - ID17 @ 4 credits DSC - ID18 @ 4 credits DSC - ID19 @ 4 credits	MIC6(VOC)@ 4 credits					20
Students will be	-	elevant major Discipline/Subject	upon securing 136 credit	is.			
VII	DSC - ID20 @ 4 credits DSC - ID21 @ 4 credits DSC - ID22 @ 4 credits DSC - ID22 @ 4 credits DSC - ID23 @ 4 credits DSC - ID23 @ 4 credits DSC - ID24 @ 4 credits	SEC4 @ 4 credits OR MIC7 (VOC) @ 4 credits OR Internship @ 4 credits					24
VIII (4yr UG Hon.)	DSC – ID25 @ 4 credits DSC – ID26 @ 4 credits DSC – ID27 @ 4 credits DSC – ID27 @ 4 credits DSC – ID28 @ 4 credits DSC – ID29 @ 4 credits	SEC5 @ 4 credits OR MIC8 (VOC) @ 4 credits OR Internship @ 4 credits					24
VIII (4yr UG Hon.	DSC – ID25 @ 4 credits	SEC5 @ 4 credits OR			Research project/ Dissertation @		24
with Research)	DSC – ID26 @ 4 credits	MIC8 (VOC) @ 4 credits OR Internship @ 4 credits			12 credits	TOTAL CREDITS	184

Table 5: Credit Structure for Undergraduate Programmes (Interdisciplinary)

#Four credits of internship earned by a student during summer internship after 2nd semester or 4th semester will be counted in 5th semester of a student who pursue 3 year UG Programmes without taking exit option.

NOTE:

DSC/MC	Discipline Specific Course/Major Course: Credit of a DSC major could be the combination of lecture credits, tutorial credits, and practical
	credits. DSC includes core courses, subject elective and subject skill enhancement courses.
MIC	Minor Course (MIC) with minimum 24 Credits including Vocational Course (VOC)
including	
VOC	
MDC	Multidisciplinary Course: All UG students must undergo three introductory level multidisciplinary courses relating to Natural Sciences,
	Physical Sciences, Humanities, Arts & Social Sciences, Commerce & Management, Interdisciplinary Studies. Students are not allowed to
	choose or repeat courses already undergone at the higher secondary level (12th class) or opted as major and minor stream under this
	category.
AEC	Ability Enhancement Course: Ability Enhancement (Language) courses may be designed to achieve competency in the Modern Indian
	Language and English, with a special emphasis on language and communication skills.
SEC	Skill Enhancement Course: Skill Enhancement Courses may be primed to impart practical skills, hands-on training, soft skills, etc., to enhance
	the student's employability.
Summer	Internships will require 120 hours (1 credit: 30 hrs of engagement) of involvement working with local industry, government or private
Internship	organizations, business organizations, artists, crafts persons, and similar entities during summers.
	#Four credits of internship earned by a student during summer internship after 2 nd semester or 4 th semester will be counted in 5 th
	semester of a student who pursue 3 year UG Programmes without taking exit option.
Research	Research Project/ Dissertation for UG degree (Honours with research) will be completed in the eighth semester under the guidance of a college and
Project/	university faculty member.
Dissertation	
VAC	Value Added Course: All UG students must undergo at least three Value Added Courses
	For students who choose to pursue single major after 2 nd semester of multidisciplinary Programmes
	The 16 credits earned during first year in the two subjects, other than the subject which is continued as Single Major, will be counted
	towards minor

DSC Major and Minor in I& II Semesters will have Foundation or Introductory level courses. DSC Major and Minor in III & IV semesters will be Intermediate Level Courses. Whereas DSC Major and minor in V & VI shall be of higher level courses and in VII & VIII semesters, advanced level courses will be offered.

6.3. Credit hours for different types of courses

A credit is a unit by which the workload relating to a course is measured. It determines the number of hours of instruction required per week over the duration of a semester (minimum 15 weeks).

Required contact hours to earn credits will be as follows:

Nature of Work	Course Credits	Contact hours per week	Contact hours per semester (15 weeks)
Lecture	01	01	15
Tutorial per paper	01	01	15
Practical, Seminar, Internship, field practice/project, or community engagement, etc.	01	02	30

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. Similarly, a 4 –credit course with 3- credits assigned for lectures and one credit for tutorial shall have three 1-hour lectures per week and one 1-hour tutorial per week. In a semester of 15 weeks duration, a four-credit course is equivalent to 45 hours of lectures and 15 hours of tutorials.

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, internships, and community engagement and service

• 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.

• 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.

• Practicum or Laboratory work:

A course requiring students 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.

• 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.

• Internship:

A course requiring students to participate in a professional activity or work experience, or cooperative education activity with an entity external to the education 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, business organizations, artists, crafts persons, and similar entities to provide opportunities for students to actively engage in on-site experiential learning.

• 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.

• Field practice/projects:

Courses requiring students to participate in field-based learning/projects generally under the supervision of an expert of the given external entity.

• Community engagement and service:

Courses requiring students to participate in field-based learning/projects generally under the supervision of an expert 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.

7.0 Curricular components of the Undergraduate Programmes

The curriculum includes courses in language, skill, environmental education, India comprehension, digital and technological solutions, health and wellness, yoga education, sports and fitness, and more. It also includes courses from major streams, minor streams, and other disciplines.

7.1 Disciplinary/ Interdisciplinary Major: A student's major would give them the opportunity to study a specific subject or field in depth. The major would provide the opportunity for a student to pursue in-depth study of a particular subject or discipline. Students may be allowed to change major within the broad discipline at the end of the second semester by giving her/him sufficient time to explore interdisciplinary courses during the first year. Advanced-level disciplinary/interdisciplinary courses, a course in research methodology, and a project/dissertation will be conducted in the seventh semester. The final semester may comprise seminar presentation, preparation, and submission of project report/dissertation. The project work/dissertation will be on a topic in the disciplinary programme of study or an interdisciplinary topic.

7.2 Disciplinary/ Interdisciplinary Minor: Courses from disciplinary or interdisciplinary minors, as well as skill-based courses related to a chosen vocational education programme, will be available to students. Students who complete a sufficient number of courses outside of their intended major can pursue a minor in that field or in the selected interdisciplinary field. After completing a variety of courses in the second semester, students can declare their preferred minor and vocational stream.

7.3 Vocational Education and Training: In addition to imparting theoretical and practical knowledge, the undergraduate programme will incorporate vocational education and training to impart skills. A minimum of 12 credits will be awarded to students in the "Minor" stream of vocational education and training. These credits may be related to the student's preferred

major or minor or choice of the student. These classes will be helpful in locating employment for students who drop out before finishing the programme.

7.4 Multidisciplinary courses: All UG students are required to undergo 3 introductory-level courses relating to any of the broad disciplines given below. These courses are intended to broaden the intellectual experience and form part of liberal arts and science education. Students are not allowed to choose or repeat courses already undergone at the higher secondary level (12th class) or opted as major and minor stream under this category.

- Life Sciences: Biochemistry, Biotechnology, Botany, Bioinformatics, Medical Biotechnology, Environmental Sciences, Food Technology, Forensic Sciences, Genetics, Microbiology, Zoology, Chemistry and other Life & Natural Sciences and other Natural Science disciplines are among the foundational courses that students can choose from.
- II. Physical Sciences: Chemistry, Physics, Mathematics, Computer Sciences, Statistics, Energy and Environmental Sciences and other Physical Science disciplines are among the foundational courses that students can choose from. The courses in this category will assist students in utilizing and putting techniques and tools into use in both their major and minor fields. Training in applications languages like STATA, SPSS, Tally, and other programming languages like Python could be a part of the class. When it comes to data analysis and the use of quantitative tools, the fundamental courses in this category will be beneficial to science and social science.
- III. Commerce and Management: The courses cover topics like Accounting, Commerce, Business Studies, Human Resource Management, Finance, Production & operations International Business, Business Economics, E – Business, Travel & Tourism Management Financial institutions, Financial Technology, Data Science, English, Sociology, Psychology and other areas.
- IV. Arts, Humanities and Social Sciences: Through courses in the social sciences like Economics, History, Geography, Sanskrit, Music, Visual Arts, Political science, Psychology, Sociology, Defence Studies, English, Hindi, Public Administration, Library Sciences, Journalism, Mass Media and Communication among others, students will be able to comprehend people and their social behavior, society, and country. Survey methods and

India-specific large-scale databases will be taught to students. History, archaeology, comparative literature, the arts and creative expressions, creative writing and literature, language(s), philosophy, and other related fields are just a few examples of courses that fall under the heading "humanities," as well as courses that are related to the humanities that are taught across disciplines.

V. Interdisciplinary Studies: Taking courses in interdisciplinary fields like Environmental Sciences, Yoga Sciences, Gender Studies, Political Economy and Development, Global Environment & Health, Cognitive Science, International Relations, Political Economy and Development, Sustainable Development, and so on will help the learners to understand society.

7.5 Language Enhancement Courses: Students must demonstrate proficiency in English and a Modern Indian Language (MIL), with an emphasis on their language and communication skills, in order to graduate. The primary objective of the classes is to assist students in developing and demonstrating fundamental linguistic skills like critical reading, expository writing, and academic writing. These skills help students understand the significance of language as a medium for knowledge and identity, as well as how to express their ideas in a clear and coherent manner. They would enable students to become familiar with the cultural and intellectual heritage of the chosen MIL and English languages, in addition to providing students with a reflective understanding of the complexity and structure of the language and literature related to both languages. The courses will also place an emphasis on the development and enhancement of skills like communication and the capacity for discussion and debate.

7.6 *Skills Enhancement Courses (SEC):* By giving students practical knowledge, hands-on experience, soft skills, etc., these courses aim to improve students' employability. The universities may design courses based on the needs of the students and the resources at its disposal.

7.7 Value-Added Courses (VAC) Common to All UG Students

Understanding India: The course aims at enabling the students to acquire and demonstrate the knowledge and understanding of contemporary India with its historical perspective, the basic framework of the goals and policies of national development, and the constitutional obligations

with special emphasis on constitutional values and fundamental rights and duties. The course would also focus on developing an understanding among student-teachers of the Indian knowledge systems, the Indian education system, and the roles and obligations of teachers to the nation in general and to the school/community/society. The course will attempt to deepen knowledge about and understanding of India's freedom struggle and of the values and ideals that it represented to develop an appreciation of the contributions made by people of all sections and regions of the country, and help learners understand and cherish the values enshrined in the Indian Constitution and to prepare them for their roles and responsibilities as effective citizens of a democratic society.

Environmental science/education: The course seeks 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. The course will also deepen the knowledge and understanding of India's environment in its totality, its interactive processes, and its effects on the future quality of people's lives.

Digital and technological solutions: Courses in cutting-edge areas that are fast gaining prominences, such as Artificial Intelligence (AI), 3-D machining, big data analysis, machine learning, drone technologies, and Deep learning with important applications to health, environment, and sustainable living that will be woven into undergraduate education for enhancing the employability of the youth.

Health & Wellness, Yoga education, sports, and fitness: Course components relating to health and wellness seek to promote an optimal state of physical, emotional, intellectual, social, spiritual, and environmental well-being of a person. Sports and fitness activities will be organized outside the regular institutional working hours. Yoga education would focus on preparing the students physically and mentally for the integration of their physical, mental, and spiritual faculties, and equipping them with basic knowledge about one's personality, maintaining self-discipline and 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 including motor skills as well as basic movement skills relevant to a particular sport; improvement of tactical abilities; and improvement of mental abilities.

The Universities may introduce other innovative value-added courses relevant to the discipline or common to all UG programmes.

7.8 Summer Internship/Apprenticeship: key aspect of the new UG programme is induction into actual work situations. All students will also undergo internships / Apprenticeships in a firm, industry, or organization or Training in labs with faculty and researchers in their own or other HEIs/research institutions during the summer term. Students will be provided with opportunities for internships with local industry, business organizations, health and allied areas, local governments (such as panchayats, municipalities), Parliament or elected representatives, media organizations, artists, crafts persons, and a wide variety of organizations so that students may actively engage with the practical side of their learning and, as a by-product, further improve their employability. Students who wish to exit after the first two semesters will undergo a 4-credit work-based learning/internship during the summer term in order to get a UG Certificate.

Community engagement and service: The curricular component of 'community engagement and service' seeks to 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. This can be part of summer term activity or part of a major or minor course depending upon the major discipline.

Field-based learning/minor project: The field-based learning/minor project will attempt to provide opportunities for students to understand the different socio-economic contexts. It will aim at giving students exposure to development-related issues in rural and urban settings. It will provide opportunities for students to observe situations in rural and urban contexts, and to observe and study actual field situations regarding issues related to socioeconomic development. Students will be given opportunities to gain a first-hand understanding of the policies, regulations, organizational structures, processes, and programmes that guide the development process. They would have the opportunity to gain an understanding of the complex socio-

economic problems in the community, and innovative practices required to generate solutions to the identified problems. This may be a summer term project or part of a major or minor course depending on the subject of study.

7.9 Research Project/Dissertation: Students choosing a 4-Year Bachelor's degree (Honours with Research) are required to take up research projects under the guidance of a faculty member. The students are expected to complete the Research Project in the eighth semester. The research outcomes of their project work may be published in peer-reviewed journals or may be presented in conferences /seminars or may be patented.

Other Activities: This component will include participation in activities related to National Service Scheme (NCC), National Cadet Corps (NCC), adult education/literacy initiatives, mentoring school students, and other similar activities.

Additional Seats: The HEIs may create 10% additional seats over and above the sanctioned strength to accommodate the request for a change of major. Any unfilled or vacant seats may be filled with those seeking a change of Major. Preference will be given to those who have got highest CGPA with no arrears in the first year.

7.10 Levels of Courses

- I. Foundation or introductory courses (First Year): These courses will focus on foundational theories, concepts, perspectives, principles, methods, and procedures for deciding the subject or discipline of interest. These courses will impart general education required for the advanced studies. These courses will expose students to the different fields of study will lay the foundation for higher-level course work.
- II. *Intermediate-level courses (Second Year):* These courses will include subject-specific courses to fulfill the credit requirements for minor or major areas of learning.
- III. *Higher-level courses (Third Year):* These courses will be of disciplinary/inter disciplinary area of study are required for majoring for the award of a degree.
- IV. Advanced courses (Fourth Year): These courses will include lecture courses with practicum, research methodology, advanced laboratory experiments / software training, research projects, hands-on-training, internship/apprenticeship projects at the undergraduate level.

8.0. Pedagogical approaches

The Learning Outcomes-Based Approach to curriculum planning and transaction requires that the pedagogical approaches are oriented towards enabling students to attain the defined learning outcomes relating to the courses within a programme. The outcome-based approach, particularly in the context of undergraduate studies, requires a significant shift from teachercentric to learner-centric pedagogies, and from passive to active/participatory pedagogies. Every programme of study lends itself to the well-structured and sequenced acquisition of knowledge and skills. Practical skills, including an appreciation of the link between theory and practice, will constitute an important aspect of the teaching-learning process. Teaching methods, guided by such a framework, may include lectures supported by tutorial work; practicum and field-based learning; the use of prescribed textbooks and e-learning resources and other self-study materials; field-based learning/project, open-ended project work, some of which may be teambased; activities designed to promote the development of generic/transferable and subjectspecific skills; and internship and visits to field sites, and industrial or other research facilities etc.

9.0. Outcomes based approach to Higher Education

The basic assumption of the learning outcomes-based approach to curriculum development for awarding higher education degree should be based on the demonstrable attainment of objectives (academic excellence, knowledge, creativity, abilities, attitudes, and values) in a student after the completion of a programme. The National Higher Education Qualifications Framework (NHEQF) specified learning outcomes related to the disciplinary area(s) in the selected field(s) of learning and generic learning outcomes that are anticipated to be attained by a graduate upon completion of the programme(s). Students must possess the qualities and characteristics of a graduate of a programme of study. The key outcomes that underpin curriculum planning and development at the undergraduate level include Graduate Attributes, Qualification Descriptors, Programme Learning Outcomes, and Course Learning Outcomes:

9.1 Graduate Attributes:

The graduate attributes reflect the particular quality and feature or characteristics of an individual, including the knowledge, skills, attitudes and values that are expected to be acquired

by a graduate through studies at the higher education institution (HEI) such as a college or university. The graduate attributes include capabilities that help strengthen one's abilities for widening current knowledge base and skills, gaining new knowledge and skills, undertaking future studies, performing well in a chosen career and playing a constructive role as a responsible citizen in the society. The graduate attributes define the characteristics of a student's university degree programme(s), and describe a set of characteristics/ competencies that are transferable beyond study of a particular subject area and programme contexts in which they have been developed. Graduate attributes are fostered through meaningful learning experiences made available through the curriculum, the total college/university experiences and a process of critical and reflective thinking.

The graduate attributes include capabilities that help:

- Broaden the current knowledge base and skills,
- Gain and apply new knowledge and skills,
- Undertake future studies independently,
- Perform well in a chosen career,
- Play a constructive role as a responsible citizen in society.

Graduate attributes include learning outcomes that are specific to disciplinary areas relating to the chosen field(s) of learning and generic learning outcomes that graduates of all programmes of study should acquire and demonstrate.

9.2 Qualification Level Descriptors

The qualification level descriptors describe the academic standard for a specific qualification in terms of the levels of knowledge and understanding, skills and competencies and attitudes and values that the holders of the qualification are expected to attain and demonstrate. These descriptors also indicate the common academic standards for qualification across academic programs and help the HEIs in designing, approving, assessing and reviewing academic programmes. The learning experiences and assessment procedures are expected to be designed to provide every student with the opportunity to achieve the intended programme learning outcomes. The qualification level descriptors reflect both disciplinary knowledge and

understanding as well as generic skills, including global competencies, that all students in different academic fields of study should acquire/attain and demonstrate.

9.3 Program Learning Outcomes

The programme learning outcomes are aligned with the relevant qualification descriptors. Programme learning outcomes will include subject-specific skills and generic skills, including transferable global skills and competencies, the achievement of which the students of a specific programme of study should be able to demonstrate for the award of the certificate/ Diploma/Degree qualification. The programme learning outcomes would also focus on knowledge and skills that prepare students for further study, employment, and citizenship. They help ensure comparability of learning levels and academic standards across colleges/ universities and provide a broad picture of the level of competence of graduates of a given programme of study. A programme of study may be mono disciplinary, multi-disciplinary or inter-disciplinary.

Common components of PLO are:

Program specific learning outcomes	Generic learning outcomes
 A comprehensive knowledge and coherent understanding of the chosen disciplinary/ interdisciplinary areas of study Practical, professional, and procedural knowledge required for carrying out various work/tasks related to the chosen field(s) of learning Application of knowledge and skills Capacity to extrapolate the acquired knowledge and skills to real-life situations and apply acquired competencies in new/unfamiliar contexts 	 Problem-solving Critical thinking Creativity Communication Skills Research-related skills Collaboration Learning how to learn Constitutional, humanistic, ethical, and moral values

The template for Programme Learning Outcomes (PLO) and course mapping with PLOs is enclosed as **Annexure A**. The Learning Outcomes Descriptors for UG Programmes i.e. levels 4.5 to 6.0 is given as **Annexure B**.

10. Learning Assessment

A variety of assessment methods that are appropriate to a given discipline/subject area and a programme of study will be used to assess progress towards the course/programme learning outcomes. Evaluation will be based on continuous assessment, in which sessional and the terminal examinations will contribute to the final grade. Sessionals will consist of class tests, mid-semester examination(s), homework assignments, class presentations etc., as determined by the concerned BOS.

The proportion of external and internal assessment in any course shall be preferably 70%:30%. However, this proportion may vary depending upon the nature of course.

10.1 Letter Grades and Grade Points:

The Semester Grade Point Average (SGPA) is computed from the grades as a measure of the student's performance in a given semester. The SGPA is based on the grades of the current term, while the Cumulative GPA (CGPA) is based on the grades in all courses taken after joining the programme of study. The HEIs may also mention marks obtained in each course and a weighted average of marks based on marks obtained in all the semesters taken together for the benefit of students.

Marks (%)	Letter Grade	Grade Point
> 90	O(outstanding)	10
> 75 to 90	A+(Excellent)	9
> 65 to 75	A(Very good)	8
> 55 to 65	B+(Good)	7
> 50 to 55	B(Above average)	6
> 40 to 50	C(Average)	5
40	P (Pass)	4
Less than 40	F(Fail)	0
	Ab(Absent)	0

a. Computation of SGPA and CGPA

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. SGPA (Si) = Σ (Ci x Gi) / Σ Ci

Where Ci is the number of credits of the ith course and Gi is the grade point scored by the student in the ith course.

Semester	Course	Credit	Letter Grade	Grade point	Credit Point (CreditxGrade)
Ι	Course 1	3	A	8	3X8= 24
I	Course 2	4	B+	7	4X7= 28
I	Course 3	3	В	6	3X6= 18
I	Course 4	3	0	10	3X 10 =30
I	Course 5	3	C	5	3X5= 15
I	Course 6	4	В	6	4X6= 24
		20			139
		139/20= 6.95			

Example for Computation of SGPA

The Cumulative Grade Point Average (CGPA) is also calculated in the same manner taking into

account all the courses undergone by a student in all the semesters of a programme, i.e.

 $CGPA = \Sigma(Ci \times Si) / \Sigma Ci$

where Si is the SGPA of the ith semester and Ci is the total number of credits in that semester.

Example for Computation of CGPA

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6		
Credit:21	Credit:22	Credit:25	Credit:26	Credit:26	Credit25		
SGPA:6.9	SGPA:7.8	SGPA:5.6	SGPA:6.0	SGPA:6.3	SGPA:8.0		
CGPA=6.73(21 x6.9+22x7.8+25x5.6+26 x6.0+26x6.3+25 x8.0)/145							

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

11. Power to Remove Difficulties:

If any difficulty arises in giving effect to the provisions of this Ordinance, the Vice Chancellor may, by order, make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty, however subject to ratification of such order by the Statutory bodies of the University.

ANNEXURE-A

PROGRAM LEARNING OUTCOMES OF UG PROGRAMMES

The graduate on completion of Bachelors programme will be able to:-

PLO 1	Demonstrate in-depth knowledge and coherent understanding of
	academic program and its linkages with related disciplinary/interdisciplinary areas.
PLO 2	Demonstrate practical, professional and procedural knowledge required for performing
	various tasks associated with the chosen field of learning.
PLO 3	Demonstrate the capacity to apply knowledge and skills related to one's specialisation in
	the chosen field of learning
PLO 4	Demonstrate the capacity to extrapolate the acquired knowledge and skills to real-life
	situations and apply acquired competencies in new/unfamiliar contexts
PLO 5	Demonstrate relevant generic competencies such as (i) problem-solving skills that are
	required to solve different types of problems with well defined solutions, , relating to
	concerned academic field (ii) communication skills involving the ability to listen carefully,
	to read texts and research papers analytically and to present complex information in a
	concise manner to different groups/audiences; (iii) analytical skills involving paying
	attention to detail and ability to construct logical arguments; (iv) ICT skills; (v) personal
	skills such as the ability to work both independently and in a group.
PLO 6	Demonstrate professional behaviour such as (i) being objective, unbiased and truthful in
	all aspects of work and avoiding unethical behavior; (ii) the ability to identify the potential
	ethical issues in work-related situations;

Course Learning Outcomes

The programme learning outcomes are attained by learners through the essential learnings acquired on completion of selected courses of study within a programme. The term 'course' is used to mean the individual courses of study that makes up the scheme of study for a programme. Course learning outcomes are specific to the learning for a given course of study related to a disciplinary or interdisciplinary/multi-disciplinary area. Some programmes of study are highly structured, with a closely laid down progression of compulsory/core courses to be taken at particular phases/stages of learning. Some programmes allow learners much more freedom to take a combination of courses of study pursued by another student of the same programme. Course-level learning outcomes will be aligned to programme learning outcomes.

Course Mapping with PLOs

Course level learning outcomes are specific to a course of study within a given programme of study. The achievement by students of course-level learning outcomes leads to the attainment of the programme learning outcomes. At the course level, each course may well have links to some but not all graduate attributes as these are developed through the totality of student learning experiences across the years of their study. A course map would indicate the linkage between course learning outcomes and each programme learning outcome. A course map would indicate the linkage between course learning outcomes learning outcomes and each programme learning outcome (**Table 1**).

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7
Course 1							
Course 2							
Course 3							
Course 4							
Course 5							
Course 6							
Course 7							
Course 8							
Course 9							
Course 10							
Course 11							
Course 12							
Course 13							
Course 14							
Course 15							
Course 'n'							

Table 1: Course mapping with PLO for Undergraduate Programmes (Multidisciplinary)

Annexure "B"

Learning Outcomes Descriptors for Higher Education qualification at levels 4.5 to 6.5

Elements of the Descriptors	Level 4.5 Undergraduate Certificate
Knowledge and	The graduates should be able to demonstrate the acquisition of:
understanding	 knowledge of facts, concepts, principles, theories, and processes in broad multidisciplinary learning contexts within the chosen fields of learning,
	 understanding of the linkages between the learning areas within and across the chosen fields of study,
	 procedural knowledge required for performing skilled or paraprofessional tasks associated with the chosen fields of learning.
Skills required to	The graduates should be able to demonstrate the acquisition:
perform and	• a range of cognitive and technical skills required for accomplishing assigned tasks relating to the chosen fields of learning in the context of
accomplish tasks	broad multidisciplinary contexts.
	 cognitive skills required to identify, analyze and synthesize information from a range of sources.
	• cognitive and technical skills required for selecting and using relevant methods, tools, and materials to assess the appropriateness of
	approaches to solving problems associated with the chosen fields of learning.
Application of	The graduates should be able to demonstrate the acquisition of:
knowledge and skills	• apply the acquired operational or technical and theoretical knowledge, and a range of cognitive and practical skills to select and use basic
	methods, tools, materials, and information to generate solutions to specific problems relating to the chosen fields of learning.
Generic learning	The graduates should be able to demonstrate the ability to:
outcomes	• listen carefully, read texts related to the chosen fields of study analytically and present information in a clear and concise manner to different
	groups/audiences.
	 express thoughts and ideas effectively in writing and orally and present the results/findings of the experiments carried out in a clear and concise manner to different groups.
	 meet own learning needs relating to the chosen fields of learning.
	• pursue self-directed and self-managed learning to upgrade knowledge and skills required to pursue higher level of education and training.
	 gather and interpret relevant quantitative and qualitative data to identify problems,
	 critically evaluate principles and theories associated with the chosen fields of learning.
	• make judgement and take decision, based on analysis of data and evidence, for formulating responses to issues/problems associated with the
	chosen fields of learning, requiring the exercise of some personal responsibility for action and outputs/outcomes.
Constitutional,	The graduates should be able to demonstrate the acquisition of:
humanistic, ethical	 embrace constitutional, humanistic, ethical, and moral values in one's life, and practice these values in real life situations,
and moral values	 put forward convincing arguments to respond to the ethical and moral issues associated with the chosen fields of learning.
Employment ready	The graduates should be able to demonstrate the acquisition of:
skills, and	 knowledge and a basket of essential skills, required to:
entrepreneurship skills	 perform effectively in a defined job relating to the chosen fields of study,
and mindset	• ability to exercise responsibility for the completion of assigned tasks and for the outputs of own work, and to take some responsibility for
	group work and output as a member of the group.

Elements of the Descriptors	Level 5 Undergraduate Diploma
Knowledge and	The graduates should be able to demonstrate the acquisition of:
understanding	 theoretical and technical knowledge in broad multidisciplinary contexts within the chosen fields of learning,
	 deeper knowledge and understanding of one of the learning areas and its underlying principles and theories,
	• procedural knowledge required for performing skilled or paraprofessional tasks associated with the chosen fields of learning.
Skills required to perform	The graduates should be able to demonstrate the acquisition:
and accomplish tasks	• cognitive and technical skills required for performing and accomplishing complex tasks relating to the chosen fields of learning.
	 cognitive and technical skills required to analyze and synthesize ideas and information from a range of sources.
	 act on information to generate solutions to specific problems associated with the chosen fields of learning.
Application of knowledge	The graduates should be able to demonstrate the acquisition of:
and skills	• apply the acquired specialized or theoretical knowledge, and a range of cognitive and practical skills to gather quantitative and qualitative data,
	 select and apply basic methods, tools, materials, and information to formulate solutions to problems related to the chosen field(s) of learning
Generic learning outcomes	The graduates should be able to demonstrate the ability to:
	• listen carefully, read texts related to the chosen fields of learning analytically and present complex information in a clear and concise manner to different groups/audiences,
	• communicate in writing and orally the information, arguments, and results of the experiments and studies conducted accurately and effectively to specialist and non-specialist audience.
	 meet own learning needs relating to the chosen field(s) of learning, work/vocation, and an area of professional practice,
	 pursue self-paced and self directed learning to upgrade knowledge and skills required for pursuing higher level of education and training. critically evaluate the essential theories, policies, and practices by following scientific approach to knowledge development.
	 make judgement and take decision, based on the analysis and evaluation of information, for determining solutions to a variety of unpredictable problems associated with the chosen fields of learning, taking responsibility for the nature and quality of outputs.
Constitutional, humanistic,	The graduates should be able to demonstrate the acquisition of:
ethical and moral values	 embrace constitutional, humanistic, ethical, and moral values, and practice these values in life,
	 take a position regarding these values,
	 formulate arguments in support of actions to address issues relating the ethical and moral issues relating to the chosen fields of learning,
	including environmental and sustainable development issues, from multiple perspectives.
Employment ready skills,	The graduates should be able to demonstrate the acquisition of:
and entrepreneurship skills	 knowledge and essential skills set that are necessary to:
and mindset	• take up job/employment relating to the chosen fields of study or professional practice requiring the exercise of full personal responsibility for the completion of tasks and for the outputs of own work, and full responsibility for the group task/work as a member of the group/
	team.
	 exercise self- management within the guidelines of study and work contexts.
	• supervise the routine work of others, taking some responsibility for the evaluation and improvement of work or study activities.

Elements of the Descriptors	Level 5.5 Bachelor's Degree
Knowledge and	The graduates should be able to demonstrate the acquisition of:
understanding	• comprehensive, factual, theoretical, and specialized knowledge in broad multidisciplinary contexts with depth in the underlying
	principles and theories relating to one or more fields of learning.
	 knowledge of the current and emerging issues and developments within the chosen fields of learning.
	 procedural knowledge required for performing and accomplishing professional tasks associated with the chosen fields of learning.
Skills required to perform and	The graduates should be able to demonstrate the acquisition:
accomplish tasks	 cognitive and technical skills required for performing and accomplishing complex tasks relating to the chosen fields of learning. cognitive and technical skills required to evaluate and analyze complex ideas.
	• cognitive and technical skills required to generate solutions to specific problems associated with the chosen fields of learning.
Application of knowledge and skills	The graduates should be able to demonstrate the acquisition of:
	 apply the acquired specialized technical or theoretical knowledge, and cognitive and practical skills to gather and analyze quantitative/ qualitative data to assess the appropriateness of different approaches to solving problems,
	 employ the right approach to generate solutions to problems related to the chosen fields of learning.
Generic learning outcomes	The graduates should be able to demonstrate the ability to:
	 listen carefully, to read text related to the chosen fields of learning analytically and present complex information in a clear and concise manner to different groups/audiences.
	 communicate in writing and orally the constructs and methodologies adopted for the studies undertaken relating to the chosen fields of learning,
	 make coherent arguments to support the findings/ results of the study undertaken to specialist and non-specialist audience. meet own learning needs relating to the chosen field(s) of learning,
	 pursue self-paced and self directed learning to upgrade knowledge and skills that will help adapt to changing demands of workplace and pursue higher level of education and training.
	• critically evaluate evidence for taking actions to generate solutions to specific problems associated with the chosen fields of learning based on empirical evidence.
	 make judgement and take decisions based on the analysis and evaluation of information for formulating responses to problems, including real-life problems,
	 exercise judgement across a broad range of functions based on empirical evidence, for determining personal and/or group actions to generate solutions to specific problems associated with the chosen fields of learning.
Constitutional, humanistic, ethical	The graduates should be able to demonstrate the acquisition of:
and moral values	• embrace the constitutional, humanistic, ethical, and moral values, and practice these values in life.
	• identify ethical issues related to the chosen fields of study,
	• formulate coherent arguments about ethical and moral issues, including environmental and sustainable development issues,
	from multiple perspectives.
	• follow ethical practices in all aspects of research and development, including avoiding unethical practices such as fabrication, falsification or misrepresentation of data or committing plagiarism.

Elements of the Descriptors	Level 5.5 Bachelor's Degree
Employment ready skills, and entrepreneurship skills and mindset	 The graduates should be able to demonstrate the acquisition of: knowledge and essential skills set and competence that are necessary to: take up a professional job relating to the chosen field of learning and professional practice, entrepreneurship skills and mindset required for setting up and running an economic enterprise or pursuing self-employment requiring the exercise of full personal responsibility for the outputs of own work, and full responsibility for output of group, exercise management and supervision in the contexts of work or study activities involving unpredictable work processes and working environment.

Elements of the Descriptors	Level 6 Bachelor's Degree (Honors / Honors with Research)		
Knowledge and	The graduates should be able to demonstrate the acquisition of:		
understanding	• advanced knowledge about a specialized field of enquiry, with depth in one or more fields of learning within a broad		
	multidisciplinary/ interdisciplinary context.		
	 a coherent understanding of the established methods and techniques of research and enquiry applicable to the chosen fields of learning. 		
	 an awareness and knowledge of the emerging developments and issues in the chosen fields of learning, 		
	• procedural knowledge required for performing and accomplishing professional tasks associated with the chosen fields of learning.		
Skills required to perform and			
accomplish tasks	 a range of cognitive and technical skills required for performing and accomplishing complex tasks relating to the chosen fields of learning, 		
	 cognitive and technical skills relating to the established research methods and techniques, 		
	 cognitive and technical skills required to evaluate complex ideas and undertake research and investigations to generate solutions to real-life problems, 		
	 generate solutions to complex problems independently, requiring the exercise of full personal judgement, responsibility, and accountability for the output of the initiatives taken as a practitioner. 		
Application of knowledge and	Graduates should demonstrate the ability to:		
skills	 apply the acquired advanced technical and/or theoretical knowledge and a range of cognitive and practical skills to analyze the quantitative and qualitative data gathered drawing on a wide range of sources for identifying problems and issues relating to the chosen fields of learning, 		
	• apply advanced knowledge relating to research methods to carryout research and investigations to formulate evidence-based		
	solutions to complex and unpredictable problems.		
Generic learning outcomes	The graduates should be able to demonstrate the ability to:		
	 listen carefully, read texts and research papers analytically and present complex information in a clear and concise manner to different groups/ audiences, 		
	 communicate technical information and explanations, and the findings/results of the research studies relating to specialized fields of learning, 		
	 present in a concise manner one's views on the relevance and applications of the findings of research and evaluation studies in the context of emerging developments and issues. 		
	 meet one's own learning needs relating to the chosen fields of learning, 		
	 pursue self-paced and self directed learning to upgrade knowledge and skills that will help accomplish complex tasks and pursue higher level of education and research. 		
	 Demonstrate a keen sense of observation, inquiry, and capability for asking relevant and appropriate questions, 		
	 problematize, synthesize and articulate issues and design research proposals, 		
	 define problems, formulate appropriate and relevant research questions, 		
	 formulate hypotheses, test hypotheses using quantitative and qualitative data, and establish hypotheses, make inference based on the analysis and interpretation of data, and predict causeand-effect relationships, 		
	 develop appropriate tools for data collection, 		

	 examine and assess the implications and consequences of emerging developments and issues relating to the chosen fields of study based on empirical evidence make judgement in a range of situations by critically reviewing and consolidating evidences, exercise judgement based on evaluation of evidence from a range of sources to generate solutions to complex problems, including real-life problems, associated with the chosen fields of learning requiring the exercise of full personal responsibility and accountability for the initiatives undertaken and the outputs/ outcomes of own work as well as of the group as a team member.
Constitutional, humanistic,	The graduates should be able to demonstrate the acquisition of:
ethical and moral values	 embrace and practice constitutional, humanistic, ethical, and moral values in one's life
	 adopt objective, unbiased, and truthful actions in all aspects of work related to the chosen field(s) of learning and professional practice.
	 present coherent arguments in support of relevant ethical and moral issues.
	 participate in actions to address environmental and sustainable development issues.
	 follow ethical practices in all aspects of research and development, including avoiding unethical practices such as fabrication, falsification or misrepresentation of data or committing plagiarism.
Employment ready skills, and	The graduates should be able to demonstrate the acquisition of:
entrepreneurship skills and	knowledge and skills set and competencies required for:
mindset	• adapting to the future of work and to the demands of the fast pace of technological developments and innovations that drive shift in employers' demands for skills, particularly with respect to transition towards more technology assisted work involving the creation of new forms of work and rapidly changing work and production processes.
	• managing complex technical or professional activities or projects, requiring the exercise of full personal responsibility for output of
	own work as well as for the outputs of the group as a member of the group/team.
	 exercising supervision in the context of work having unpredictable changes.