

PANDIT SUNDARLAL SHARMA (OPEN) UNIVERSITY CHHATTISGARH

PROGRAMME PROJECT REPORT (PPR)

PROGRAMME: BACHELOR OF SCIENCE (HONOURS)

(4 Year Under Graduate Programme)

1. Programme Mission and Objective: Bachelor of Science (Honours) Programme is designed through distance mode is guided by the provisions outlined in the National Education Policy 2020. The primarily objective is to promote the scientific temperament of the learners in higher education by providing easy access to all those learners to improve their qualification, skills and competence. The education in Bachelor of Science (Honours) will be under the following core subjects, which combines theory and practical:

- B.Sc.(Honours) in Mathematics,
- B.Sc.(Honours) in Physics,
- B.Sc.(Honours) in Zoology,
- B.Sc.(Honours) in Botany,
- B.Sc.(Honours) in Chemistry, and
- B.Sc.(Honours) in Computer Science.

The Programme Structure is described in section 6. Details of Core Courses lists are attached in annexure I to VI, while list of Generic Elective courses, Ability Enhancement Courses, Value Added Courses, and Skill Enhancement Courses are attached in annexure VII to X.

Following are the broader objectives of the programme:

- i. To educate and create the prospective and diverse group of learners of Chhattisgarh with knowledge, analytical ability and importance of Mathematics, Physics, Chemistry, Zoology, Botany and Computer Science and skills needed to provide leadership to society.
- ii. To be prepared for a lifelong career with primary processing acquiring the skills and experience to undertake appropriate research and study of Physics, Chemistry, Computer Science, Zoology, Botany and Mathematics.

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- iii. To make the learners aware of changing environment and scope, in the field of Physics, Chemistry, Zoology, Botany, Computer Science and Mathematics to operate in a competitive environment and to choose the discipline as a career for industry and entrepreneurship.
- iv. To seek continuous improvement in individual learning skills and personal development and to work with confident self-direction and originality so as to make a meaningful contribution to society in the field of science.
- v. The overall objective of the programme is to encourage and boost the learners towards post graduate programme and scientific visualization.

2. Relevance of the Program with HEI's Mission and Goals: Pandit Sundarlal Sharma (Open) University Chhattisgarh is committed to endow with assure quality of scientific education to tribal area of learner where regular form of education cannot reach. In the line of the mission of the University, this programme will provide ample of opportunities to those rural and backward learners who are deprived of Science education and cannot find a place in regular education system. Apart from that it is also open to those who wish to continue their learning irrespective of their rural background and economically poor families.

3. Nature of Prospective Target Group of Learners: The prospective learners can be 10+2 learners of science background.

4. Appropriateness of programme to be conducted in Open and Distance Learning mode to acquire specific skills and competence: Bachelor of Science (Honours) is one of the suitable course/programme to be offered through Open and Distance Learning mode. The theory and practical knowledge can be thoroughly captured by the learners to acquire the capability which will make them trained for self-employment as per the market demand.

5. Instructional Design:

Instructional design is a systematic and scientific approach that incorporates principles for the effective creation and implementation of educational programs. In the context of distance learning, instructional design holds particular significance. Successful distance learning design caters to the distinct learning needs of adult learners. Before course development begins, a thorough curriculum assessment is conducted, followed by the

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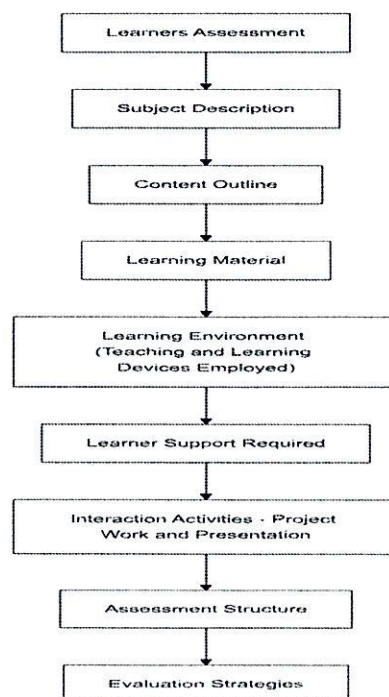
application of appropriate access devices and pedagogical tools to construct the curriculum.

Each course's content is systematically organized into Blocks and Units, with the study material segmented into smaller, manageable sections to accommodate distance learners effectively. To support self-assessment, self-check exercises are integrated throughout the study material. These exercises enable learners to review, consolidate, and evaluate their understanding of the content before progressing further.

Further, various theories and models are referred for designing effective instructional events, some are specified as under:

- Learning objectives
- Self-Check Exercises
- Learning through Modules
- In-depth Learning
- Reference Texts
- Real World Contexts
- Real World Examples

The programme has been developed on the basis of the following sequential steps:



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6. Curriculum Design:

Curriculum Design is the systematic organization and development of educational programs to meet specific academic, professional, or developmental objectives. It involves the careful planning of various components such as duration, credit allocation, course structure, learning methodologies, means of delivery, and faculty requirements to ensure an effective and holistic learning experience for the target audience. The curriculum design of Bachelor of Science (Honours) programme can be stated under the following headings:

- i. **Duration and Credit:** The Programme spans Four Years and is divided into Eight Semesters. In Three year (six semesters) duration it offers a total of 122 credit to award a Degree in Bachelor of Science in Major discipline, while it offers a total of 162 credits in Four year (eight semesters) duration to award a Degree in Bachelor of Science (Honours) in Major discipline, with each semester providing at least 20 credits. The programme includes defined exit points at the end of the second, fourth, sixth, and eighth semesters. Detailed information about these exit points and credit distribution is outlined in the Programme structure.
- ii. **Medium:** The course material for Bachelor of Science (Honours) programme will be in Hindi/English language. However, Learners can opt either English or Hindi language for answering the questions in the examination.

iii. Curriculum Framework: Definitions

Semester/Credits

- **Semester Duration:** Each semester at Pandit Sundarlal Sharma (Open) University consists of 90 working days, and an academic year is divided into two such semesters.
- **Internship:** A Four-week term during the vacation allows for internships/ apprenticeships/ vocational training/ Community engagement & services, particularly beneficial for learners of sixth semester.

Major and Minor Disciplines

- **Major Discipline:** The major is the primary field of study, and the degree is awarded in this discipline. Learners must secure approximately 50% credit or more from core courses out of the total credits.



- **Minor Discipline:** A minor provides a secondary focus, broadening the learner's academic scope. A learner could earn a minor in a subject by securing a minimum of 12 credits in this discipline.

Awarding UG Certificate, UG Diploma, and Degrees

- **UG Certificate:** Students who opt to exit after completion of the first year and have secured 40 credits will be awarded a UG Certificate if, in addition, they complete one vocational course of 4 credits 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 second year and have secured 80 credits will be awarded the UG Diploma if, in addition, they complete one vocational course of 4 credits 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:** 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 minimum 120 credits.
- **4-Year UG Degree (Honours):** Four-year UG Honours Degree in the major discipline will be awarded to those who complete a four-year degree programme with minimum 160 credits.

Interdisciplinary and Multidisciplinary Programmes

Interdisciplinary UG Programmes

Interdisciplinary programs involve a blend of courses from related fields to ensure comprehensive expertise upon graduation. The credits for core courses shall be distributed among the constituent disciplines/subjects so as to get core competence in the interdisciplinary programme.

Multidisciplinary UG Programmes

These programs allow learners to engage with multiple disciplines, providing a broad educational foundation. In the case of students pursuing a multidisciplinary

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programme of study, the credits to core courses will be distributed among the broad disciplines such as Sciences, Life sciences etc.

The statutory bodies of the University such as the Board of Studies and Academic Council will decide on the list of courses under major category and credit distribution for interdisciplinary and multidisciplinary programmes.

iv. Programme Structure:

The structure of the 4 Year Undergraduate Programme at Pandit Sundarlal Sharma (Open) University Chhattisgarh, detailing the minimum credit requirements for Bachelor of Science (Honours) is given below:

PANDIT SUNDARLAL SHARMA (OPEN) UNIVERSITY CHHATTISGARH BILASPUR, PROPOSED STRUCTURE FOR SEMESTER WISE DISTRIBUTION OF CREDITS OF UNDER GRADUATE PROGRAM UNDER NEP 2020								
Semester	Discipline Specific Courses (DSCs) Each 4 credits	Discipline Specific Electives (DSEs) Each 4 credits	Generic Electives (GEs) Each 3 credits	Ability Enhancement Courses (AEC) Each 3 credits	Value Added Courses (VAC) Each 2 credits	Skill Enhancement Courses (SDC) Each 4 credits	Internship/ Apprenticeship/ Vocational Training/ Community Engagement & Services	Grand total (credit)
I	DSC 1 DSC 2	DSE 1	GE 1	AEC 1	VAC 1	X	X	20
II	DSC 3 DSC 4	DSE 2	GE 2	AEC 2	X	SEC 1	X	22
LEVEL 4.5 EXIT 1 UG CERTIFICATE								
III	DSC 5 DSC 6	DSE 3	GE 3	AEC 3	VAC 2	X	X	20
IV	DSC 7 DSC 8	DSE 4	X	X	X	SEC 2	X	20
	DSC 9							
LEVEL 5 EXIT 2 UG DIPLOMA								
V	DSC 10 DSC 11	DSE 5	X	X	X	SEC 3	X	20
	DSC 12							
VI	DSC 13 DSC 14	DSE 6	X	X	VAC 3	X	Internship/Community Engagement & Service (2 C)	20
	DSC 15							
	60 Credits	24 Credits	9 Credits	9 Credits	6 Credits	12 credits	2 Credits	122 Credits
LEVEL 5.5 EXIT 3 UG DEGREE								
VII	DSC(H) 16	DSE 7	X	X	X	X	X	20
	DSC(H)17							
	DSC(H) 18							
VIII	DSC(H)19	DSE 8	X	X	X	X	X	20
	DSC(H) 20							
	DSC(H)21							
	DSC(H) 22							
	DSC(H)23							
	92 Credits	32 Credits	9 Credits	9 Credits	6 Credits	12 credits	2 Credits	162 Credits
LEVEL 6 EXIT 4 UG DEGREE HONOURS								

Provisions for opting various courses

- From semester I to semester VI, learner have to study 15 DSC courses, 06 DSE courses, 03 GE courses, 03 AEC courses, 03 VAC courses, 03 SEC courses and one Internship/Apprenticeship/ Vocational Training/ Community Engagement & Services.

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- In IV, V, VI semester, Learners will be required to opt for one specific subject as DSC, out of those opted previously by him in semester I, II and III as DSC/DSE. This selected subject will be for courses DSC-9, DSC-12 and DSC-15 respectively. Learners having successfully accomplished VI semester, will have three subjects of study as DSC/DSE. Out of these three subjects, two subjects will account for six courses each and the third subject will account for nine courses. Learners will be allowed to continue for honours in VII and VIII Semesters with the subject where he/she has studied and accomplished nine courses.
- The list of courses which is to be offered in a specific discipline for **Discipline Specific Courses (DSC)** will be given by respective department concern of the university.
- The list of courses which is to be offered in **Discipline Specific Elective (DSE)** will be offered by various School of Studies/Faculties. This list will be offered subject wise and on the basis of various semesters. The learners can opt from the basket of offered subjects, provided that he/she has to continue with the same subject form I to VI semester, thereby studying six courses of specific opted subject.
- The list of courses which is to be offered in **Generic Elective (GE) Course** shall be given by various School of Studies/Faculties. Learners can opt from the basket of offered courses provided that he/she shall not continue to opt for those courses which are offered by School/Faculty as **Discipline Specific Course (DSC)** which the learner has opted earlier.
- The list of courses which is to be offered as **Ability Enhancement Course (AEC)** shall be made available to the Learners. The Learners can opt for one AEC in each semester from the offered courses.
- The list of courses which is to be offered as **Value Added Course (VAC)** shall be made available to the Learners. The Learners can opt for one VAC in each semester from the offered courses.
- The list of courses which is to be offered as **Skill Enhancement Courses (SEC)** shall be made available to the Learners. The Learners can opt for one SEC in each semester from the offered courses.
- A Four-week term during the vacation allows for internships/ apprenticeships/ vocational training/ Community engagement & services, particularly beneficial for learners of sixth semester.


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- The learner, who have obtained overall 75% and above marks in I to VI semester, shall be eligible to continue for fourth year, i.e. VII and VIII semester for honours programme.
- In VII and VIII semester, learner have to study 04 DSC courses and one DSE course in each semester, i.e. total 08 DSC courses and 02 DSE courses.

Discipline Specific Courses (DSC) under Bachelor of Science (Honours)



A learner can opt DSC Courses form the list of offered courses as per the provisions mentioned by the School of Science and School of Life Science under Bachelor of Science (Honours). Learners can choose Mathematics, Physics and Computer Science courses from School of Science, while they can choose Zoology, Biology and Chemistry courses from School of Life Science. Details of course lists are available in annexure I to VI.

Discipline Specific Electives (DSE) under Bachelor of Science (Honours)

A learner can choose a course from multiple disciplines under Discipline Specific Elective. From School of Science, Computer Science, Mathematics, and Physics courses are available as DSE courses, while from School of Life Science, Chemistry, Zoology and Botany courses are available as DSE courses. Details of course lists are available in annexure I to VI.

Generic Elective

A learner has to study a course from the list of Generic Electives in each semester of semester I, II, & III. A learner can choose a course from multiple disciplines provided by various Schools/ Board of studies. Details of course lists are available in annexure VII.

Ability Enhancement Course

A learner has to study a course from the list of Ability Enhancement Courses in each semester of semester I, II, & III. A learner can choose a course from various disciplines provided by various Schools/ Board of studies. Details of course lists are available in annexure VIII.

Value Added Course

A learner has to study three Value Added Courses during semester I to VI. A learner can choose a course from various disciplines provided by various Schools/ Board of studies. Details of course lists are available in annexure IX.

Skill Enhancement Course

A learner has to study three Skill Enhancement Courses during semester I to VI. A learner can choose a course from various disciplines provided by various Schools/ Board of studies. Details of course lists are available in annexure X.

v. Learning Method: The learning method developed by University will comprise of independent form of delivery and will constitute the following components:

- a) Self-Instructional text books (Self Learning Materials).
- b) Counselling and contact sessions at the study centre by the subject experts.
- c) Preparing the learners Assignment.
- d) Video & Audio Lectures.

Contact sessions for courses shall be arranged at the Head Quarter and Learners Support centre where the Learners can solve their difficulties.

vi. Means of Delivery: The learners are given the syllabus of the courses and also the Self learning material. It helps the learners to study a specific topic. If the learner has any difficulty, he or she can make a note of it. They can discuss these noted difficulties with the counsellor during the contact session at the study centre.

vii. Requirement of Faculty and Support Staff: University shall appoint faculty and staff in specific Department/ Discipline as per the provision laid down by UGC ODL & Online Regulations.

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7. Procedure for admissions, curriculum transaction and evaluation:

- i. **Procedure of Admission:** The admission for Undergraduate Programme will be on semester basis (or as decided by the University from time to time). All the admissions for the Programme will be done through online mode. Applications will be invited by the University with in stipulated time period where Learners have to apply for the same with all their testimonials and required fees. The minimum eligibility for admission into this programme for the candidates is having passed 10+2 examination of Chhattisgarh Board of Secondary Education, Chhattisgarh or any other equivalent examination of a Board or University recognized by Pandit Sundarlal Sharma (open) University Chhattisgarh.
- ii. **Curriculum Transaction:** For successful completion of the proposed programme, a candidate has to obtain minimum passing mark for each of the subjects as specified in the University ordinance.
- iii. **Evaluation Pattern:** The pattern of evaluation for each course from semester I to semester VIII of Undergraduate Programme will have following three components: (a) Continuous Assessment through TMA (b) Practical Viva-Voce/ Internship (c) Term End Examination (TEE)
 - a) **Continuous Assessment through Tutor Mark Assignment:** For each course in every year the Learners performance will be continuously evaluated. Continuous assessment schedule and evaluation will be done by the Study Centre which will be monitored by the department concern. The Learners have to submit Tutor Mark Assignment (TMA) carrying 30 marks before the Term end examination (TEE) which will be the base of evaluation.
 - b) **Practical Viva Voce/ Internship:** Evaluation of this component will be based on Practical Viva-Voce/ Internship done by the Learners. Viva-voce will be conducted in the presence of an external examiner.
 - c) **Term End Examination (TEE):** Term End Examination (TEE) will be conducted at the end of the learning period through an examination as like other universities. Term End examination (TEE) of each course will be of 70 marks and will be on subjective mode. The questions in the examination will comprise of very short type answer, brief answers and long type answers. The structure of the examination is as under:



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Annexure I

List of Courses from Mathematics under Bachelor of Science (Honours)

Lists of DSC and DSE courses from Mathematics discipline under Bachelor of Science (Honours) are given below:

Semester		Mathematics- Discipline Specific Courses (DSC) / Discipline Specific Elective (DSE)
I	DSC	Calculus
II	DSC	Algebra and Trigonometry
III	DSC	Vector analysis and geometry
IV	DSC	Higher calculus
	DSC	Abstract algebra
V	DSC	Differential equation
	DSC	Mechanics Part-02
VI	DSC	Mechanics
	DSC	Simple statistical principles and their uses
VII	DSC(H)	Topology
	DSC(H)	Real Analysis
	DSC(H)	Partial Differential Equation
	DSC(H)	Discrete Mathematics
	DSE(H)	Advance Discrete Mathematics/dissertation
VIII	DSC(H)	Operational Research
	DSC(H)	Complex Analysis
	DSC(H)	Mathematical Statistics
	DSC(H)	Object oriented Programming with C++
	DSE(H)	Graph Theory

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AnnexureII

List of Courses from Physics under Bachelor of Science (Honours)

Lists of DSC and DSE courses from Physics discipline under Bachelor of Science (Honours) are given below:

Semester		Physics-Discipline Specific Courses (DSC) / Discipline Specific Elective (DSE)
I	DSC	Mechanical Oscillation
II	DSC	Electromagnet and Electromagnetic Theory
III	DSC	Kinetic Theory of Gases
IV	DSC	Wave and Sounds
	DSC	Atomic and Nuclear Physics
V	DSC	Optics
	DSC	Solid State Physics
VI	DSC	Emergence of Quantum Mechanics
	DSC	Electronics
VII	DSC(H)	Mathematical Physics
	DSC(H)	Classical Mechanics
	DSC(H)	Analog system & Application
	DSC(H)	Element of Modern Physics
	DSE(H)	Astro Physics
VIII	DSC(H)	Digital System & Application
	DSC(H)	Electrodynamics
	DSC(H)	Medical Physics
	DSC(H)	Atmospheric Physics
	DSE(H)	Biophysics

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Annexure III

List of Courses from Zoology under Bachelor of Science (Honours)

Lists of DSC and DSE courses from Zoology discipline under Bachelor of Science (Honours) are given below:

Semester		Zoology-Discipline Specific Courses (DSC) / Discipline Specific Elective (DSE)
I	DSC	Cell Biology and Invertebrates
II	DSC	Vertebrates and Embryology
III	DSC	Anatomy, Animal Physiology and Biochemistry
IV	DSC	Ecology and Economic Zoology
	DSC	Immunology and Microbiology
V	DSC	Genetics, Evolution and Animal Behaviour
	DSC	Biodiversity Conservation
VI	DSC	Molecular Cell Biology, Biotechnology and Medical Zoology
	DSC	Fish and Aquaculture
VII	DSC(H)	Diversity and Biology of Nonchordates
	DSC(H)	Animal Physiology
	DSC(H)	Ecology and Environment
	DSC(H)	General Physiology and Comparative Endocrinology of Vertebrates
	DSE(H)	Genetics and Genetic engineering
VIII	DSC(H)	Genetics and Genetical Engineering
	DSC(H)	Molecular Cell Biology
	DSC(H)	Biotechnology
	DSC(H)	Tools and Techniques of Biology
	DSE(H)	Immunology

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Annexure IV

List of Courses from Botany under Bachelor of Science (Honours)

Lists of DSC and DSE courses from Botany discipline under Bachelor of Science (Honours) are given below:

Semester		Botany -Discipline Specific Courses (DSC) / Discipline Specific Elective (DSE)
I	DSC	Bacteria, Virus and Fungi
II	DSC	Algae and Bryophytes
III	DSC	Pteridophytes and Gymnosperm
IV	DSC	Biology of Flowering Plants
	DSC	Cell Biochemistry
V	DSC	Ethnobotany
	DSC	Plant Physiology
VI	DSC	Cell and Molecular Biology
	DSC	Plant Ecology
VII	DSC(H)	Mycology
	DSC(H)	Plant Pathology
	DSC(H)	Element of Genetics
	DSC(H)	Tissue Culture
	DSE(H)	Instrumentation
VIII	DSC(H)	Instrumentation
	DSC(H)	Microbiology
	DSC(H)	Cytology and Molecular Biology
	DSC(H)	Botany of Flowering Plants
	DSE(H)	Conservational biology

Annexure V

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Annexure V

List of Courses from Chemistry under Bachelor of Science (Honours)

Lists of DSC and DSE courses from Chemistry discipline under Bachelor of Science (Honours) are given below:

Semester		Chemistry-Discipline Specific Courses (DSC) / Discipline Specific Elective (DSE)
I	DSE	Physical Chemistry-I
II	DSE	Inorganic Chemistry-I
III	DSE	Organic Chemistry-I
IV	DSC	Physical Chemistry-III
	DSE	Physical Chemistry-II
V	DSC	Inorganic Chemistry-III
	DSE	Inorganic Chemistry-II
VI	DSC	Organic Chemistry-III
	DSE	Organic Chemistry-II
VII	DSC(H)	Solid State Chemistry
	DSC(H)	Polymer Chemistry
	DSC(H)	Industrial Chemistry
	DSC(H)	Green Chemistry
	DSE(H)	Biochemistry
VIII	DSC(H)	Pericyclic Reaction
	DSC(H)	Photochemistry
	DSC(H)	Group Theory
	DSC(H)	Novel Inorganic Solids
	DSE(H)	Molecular rearrangement Reactions

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Annexure VI

List of Courses from Computer Science y under Bachelor of Science (Honours)

Lists of DSC and DSE courses from Computer Science discipline under Bachelor of Science (Honours) are given below:

Semester		Computer Science-Discipline Specific Courses (DSC)/ Discipline Specific Elective (DSE)
I	DSE	Fundamentals of Computer and Information Technology.
II	DSE	Internet & Web Development
III	DSE	PC Package
IV	DSC	Desktop Publishing
	DSE	Introduction to Operating System
V	DSC	Programming in C
	DSE	Object oriented programming in C++
VI	DSC	Visual Basic
	DSE	System Analysis & Design
VII	DSC(H)	Computer Network
	DSC(H)	Advance Operating System
	DSC(H)	Software Engineering
	DSC(H)	DBMS
	DSE(H)	Cyber Security
VIII	DSC(H)	Artificial Intelligence
	DSC(H)	Data Mining
	DSC(H)	MIS
	DSC(H)	Principle of Communication System
	DSE(H)	E-Commerce

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Annexure VII

Lists of Generic Elective Courses

Lists of Generic Elective courses are given below:

Semester	School of Commerce & Management	School of Science & School of Life Science	School of Social Science & School of Humanities
I	1) Principles of Management 2) Cyber Era & Intellectual Property Rights	1) Chemistry in Daily Human Life 2) Sericulture	1) Grameen Samaj Shashtra 2) Bhartiya Darshan
II	3) GST in India	3) Physics in Daily Human Life 4) Nursery Management & Gardening	3) Manav Vriddhiyam Vyaktitwa Vikas 4) Bhasha Kaushal
III	4) Industrial Relation	5) Office Automation Tools 6) Biodiversity Conservation	5) Academic & Professional Writing 6) Pracheen Bharat me Rishi Parampara

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Annexure VIII

Lists of Ability Enhancement Courses

Lists of Ability Enhancement courses are given below:

Semester	Ability Enhancement Course
I	Hindi Language -1 or English Language-1
II	Hindi Language -2 or English Language-2
III	Hindi Language -3 or English Language-3

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Annexure IX

Lists of Value Added Courses

Lists of Value Added courses are given below:

Semester	Value Added Courses
I	Environmental Study
III	Yog: An Introduction
VI	Cyber Space & Cyber Regulation

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Annexure X

Lists of Skill Enhancement Courses

Lists of Skill Enhancement courses are given below:

Semester	School of Commerce & Management	School of Science & School of Life Science	School of Social Sciences & School of Humanities	School of Education
II	1. GST-Account Maintenance Computation & Provisions 2. E-Commerce	1. Laboratory Practices & Analytical Techniques 2. Vermiculture and Vermicomposting	1. Counselling skill 2. Partakrita Prasikshan	1. Pradarshan kari Kala ayam Sikshan
IV	1. Entrepreneurship Development 2. Accounting in Tally	3. Mushroom Cultivation	3. Professional Social Work	2. Kala ayam Craft Sikshan
V	1. Office Management 2. ITR Filing	4. Web Designing	4. Home Budget and Basics of Investment 5. Vaidic Achar Paddhati	3. Udyanki Kala Sikshan

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