



# DEPARTMENT OF GEOGRAPHY

FACULTY OF EARTH SCIENCES

MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

**Scheme and Syllabus of the**  
**Undergraduate Program (GEOGRAPHY)**  
**following the Choice Based Credit System (CBCS)**  
**as per the National Education Policy, 2020**

**For Academic Qualification : Undergraduate Certificate, Undergraduate Diploma and Three year Bachelor's Degree in Arts (B.A.)**

**Discipline : Geography (Subject/ Discipline Code – GEG)**

**Faculty : Earth Science (Faculty Code - 03)**

## **Year of Implementation**

<b>Semester</b>	<b>Academic Session</b>
Semester I & II	2023-24
Semester III & IV	2024-25
Semester V & VI	2025-26

**Scope : All constituent and affiliated colleges of the University.**

## **Key features**

1. Semester System
2. Multiple Entry and Exit
3. Continuous Assessment
4. Grading System

## **Guided by**

1. Directives of the State Government circulated vide letter no. क्रमांक पत्र 18 (10) शिक्षा - 4/2020 दिनांक 08.06.2023.
2. Resolution No. T-1 of the Meeting of the Academic Council held on 28.06.2023.

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## 1.0 SCHEME OF UNDERGRADUATE PROGRAMME

Programme Code : UG103\_\_

Programme Faculty : EARTH SCIENCES (03)

Programme Name : THREE YEAR BACHELOR OF ARTS

### SCHEME

S. No.	Level	Course Code	Course Category	Title of the Course	Credits			Credits earned
					L	T	P	
<b>SEMESTER I</b>								
1	5	GEG5000T	DCC	Physical Geography I - Lithosphere	4	0	0	4
2		GEG5000P	DCC	Lab I – Scales and Representation of Relief	0	0	2	2
3		AEC- 1	AECC	As per University Common Scheme				2
<b>SEMESTER II</b>								
4	5	GEG5001T	DCC	Human Geography	4	0	0	4
5		GEG5001P	DCC	Lab II – Representation of Socio-economic-demographic Data	0	0	2	2
6		AEC - 2	AECC	As per University Common Scheme				2
<b>Exit with <i>Certificate in Arts</i></b>								
<b>SEMESTER III</b>								
7	6	GEG6002T	DCC	Physical Geography II – Atmosphere and Hydrosphere	4	0	0	4
8		GEG6002P	DCC	Lab-III – Representation of Climatic Data	0	0	2	2
9		SEC-1	SEC	Communicative English (University Common Scheme)				2
<b>SEMESTER IV</b>								
10	6	GEG6003T	DCC	Geography of India	4	0	0	4

S. No.	Level	Course Code	Course Category	Title of the Course	Credits			Credits earned
					L	T	P	
11		GEG6003P	DCC	Lab IV – Maps and Projections	0	0	2	2
12		SEA6312P	SEC	Computer Application	0	0	2	2
<b>Exit with <i>Diploma in Arts</i></b>								
<b>SEMESTER V</b>								
13	7	GEG7100T	DSE	Economic and Resource Geography	4	0	0	4
14		GEG7100P	DSE	Lab V (A) – Remote Sensing and Image Processing	0	0	2	2
15		GEG7101T	DSE	World Regional Geography	4	0	0	4
16		GEG7101P	DSE	Lab V (B) - Land Surveying and Field Work	0	0	2	2
17		SEA7313T	SEC	Quantitative Data Analysis	2	0	0	2
<b>SEMESTER VI</b>								
18	7	GEG7102T	DSE	Regional Development in India	4	0	0	4
19		GEG7102P	DSE	Lab VI (A) – Geographical Information System	0	0	2	2
20		GEG7103T	DSE	Geography of Rajasthan	4	0	0	4
21		GEG7103P	DSE	Lab VI (B) – Socio-economic Survey Techniques	0	0	2	2
22		SEA7314P	SEC	Remote Sensing and Geographical Information System	0	0	2	2
<b>Exit with <i>Bachelor of Arts</i></b>								

**Note:** The Course Codes highlighted in yellow are tentative and are liable to change as per University guidelines, as issued in due course of time.

**Course Categories :** DCC – Discipline Centric Core ; DSE – Discipline Centric Elective ; AEC – Ability Enhancement Compulsory ; SEC – Skill Enhancement Course

**Course Delivery :** L – Lecture; P – Practical

**Contact Hours :** Lecture - 1 Credit = 1 Hour/ Week

Practical - 1 Credit = 2 Hours / Week

## 2.0 CODING AND TERMINOLOGY

*(Compiled from the UGC Guidelines on adoption of Choice Based Credit System and the guidelines issued by the University from time to time)*

### 2.1 Programme

An educational programme leading to award of a Degree, Diploma or Certificate

### 2.2 Course

Usually referred to as 'papers' is a component of a Programme. The Courses define learning objectives and learning outcomes. A Course may be designed to comprise lectures/ tutorials/ laboratory work/ field work/ outreach activities/ project work/ vocational training/ seminars/term papers/ assignments/ presentations/ self study, and /or combinations of these.

### 2.3 Choice Based Credit System (CBCS)

Under the CBCS system, the requirement of awarding a Certificate/ Diploma or Degree is prescribed in terms of number of credits to be completed by the students.

CBCS is a student centric system. It provides **choice** to the students to select from the prescribed courses. The students can take courses of their choice across the disciplines, learn at their own pace, undergo additional courses and acquire more than the required credits and adopt an interdisciplinary flexible approach to learning. The student gets the opportunity to enhance skill/ employability by taking up project work, entrepreneurship or vocational training courses. He/ she can make best use of expertise of available faculty by opting for courses across disciplines. He/ she can complete part of the programme in the parent institute and get enrolled in another institution for specialized courses.

*(Note: The implementation is subject to the guidelines prescribed by the University)*

### 2.4 Credits

CBCS credits are allocated on the basis of the typical workload necessary to achieve the required learning outcomes from a Course. A credit determines the number of hours of instruction required per week. One credit is equivalent to 01 hour of teaching (lecture/ tutorial) or 02 hours of practical / field work per week during a Semester. One credit equals to 30 hours of Dissertation/ Project/ Field Study/ Seminar work, and 45 hours of Internship or On Job Experience or Community Engagement Course or Research Credit Course.

One Semester will consist of 15-18 weeks of academic work equivalent to 90 teaching days. The Odd Semester may be scheduled from July to December, and the Even Semester from January to June.

## 2.5 Contact Hours

### 15 Weeks per Semester

L – Lecture	(1 Credit = 1 Hour/Week)
T – Tutorial	(1 Credit = 1 Hour/Week)
P – Practical/Practicum	(1 Credit = 2 Hours/Week)
SA – Studio Activities	(1 Credit = 2 Hours/Week)

## 2.6 Programme Code

The programme code has seven digits/ characters.

- The *first* and *second* alphabets indicate the **Programme** (UG for Undergraduate programme).
- The *third* digit indicates the **type of Programme**.
  - 1 – Three year UG Programme.
  - 2 – Four year UG Programme with Honours.
  - 3 – Four year UG Programme with Honours and Research Degree in the respective subject.
  - 4 – Two year PG Programme.
- The *fourth* and *fifth* digits indicate the **Faculty Code** (03 for Earth Sciences).
- The *sixth* and *seventh* digits indicate the **Serial No. of the Programme in Faculty Programme List** (\_\_\_\_\_).

## 2.7 Course Code

The Course Code has 08 digits/ characters.

- The *first three* alphabets indicate the **Subject/ Discipline** (GEG for Geography).
- The *fourth* digit indicates the **National Higher Education Qualification Framework (NHEQF)** level.
  - 5 – I & II Semester of UG Programme.
  - 6 – III & IV Semester of UG Programme.
  - 7 – V & VI Semester of UG Programme.
- The *fifth* alphabet indicates the **Type of Course**.
  - T - Theory
  - P - Practical/ Practicum
  - S - Special Courses viz. Field Practice, Projects, Studio, Community Engagement and Service.

- The *sixth* to *eighth* digits indicate the **Course Category**.

Discipline Centric Core Courses ( 000 – 099 )

Discipline Specific Elective Courses ( 100 – 199 )

Ability Enhancement Compulsory Courses ( 200 – 299 )

Skill Enhancement Courses ( 300 – 399 )

## 2.8 NHEQF Level

NHEQF Level of Undergraduate Programmes are as under:

S.No.	NHEQF Level	Semester
1	5	I
2	5	II
3	6	III
4	6	IV
5	7	V
6	7	VI
7	8	VII
8	8	VIII

NHEQF Level of Academic Qualifications

S. No.	NHEQF Qualification Level	Relationship with Academic Qualification
1	4.5	<ol style="list-style-type: none"> <li>1. Courses leading to the Certificate.</li> <li>2. Courses which are part of the curricula of the first two semesters of Diploma and Bachelor Degree program (Three or Four years).</li> <li>3. These are the Foundation or Introductory courses.</li> </ol>
2	5	<ol style="list-style-type: none"> <li>1. Courses leading to the Diploma.</li> <li>2. Courses which are part of the curricula of the 3<sup>rd</sup> and 4<sup>th</sup> semesters of Bachelor Degree program (Three or Four years).</li> <li>3. These are intermediate level courses.</li> </ol>
3	5.5	<ol style="list-style-type: none"> <li>1. Courses leading to Bachelor degree program three years.</li> <li>2. Courses part of the curricula of the 5<sup>th</sup> and 6<sup>th</sup> semesters of the Four year Bachelor degree program.</li> <li>3. These are high level courses.</li> </ol>



## 2.9 Course Categories

Course type	Code	Nature of the Course	Mode of Delivery
Discipline Centric Core	DCC	The course designed for papers under this category aim to cover the basics that a student is expected to imbibe in that particular discipline. This course is to be compulsorily studied by a candidate as a core requirement of a programme.	Theory/ Tutorial/ Practical
Discipline Specific Elective	DSE	Elective courses offered under the specific discipline/subject of study. The University suggests the courses under this category based on their expertise, specialization, requirements, scope and need. The University may also offer elective courses of interdisciplinary nature (to be delivered by the teaching Department of a specific discipline or in collaboration with other Departments.	Theory/ Tutorial/ Practical/ others
Generic Elective Course	GEC	An elective course chosen from an unrelated discipline/subject of the main study with an intention to seek exposure beyond discipline/s of choice is called a Generic Elective. The purpose of this category of courses is to offer the students the option to explore disciplines of interest beyond the choices they make in Core and Discipline Specific Elective papers. The University has complete freedom to suggest its own courses under this category based on their expertise, specialization, requirements, scope and need.  A Core or Elective course offered in a subject may be treated as an elective by another discipline/ subject and vice-versa. Such electives are also referred to as Generic Electives.	Theory/ Tutorial/ Practical/ others
Ability Enhancement Compulsory Course	AECC	An Ability Enhancement Compulsory Course is based upon the content that leads to knowledge enhancement viz. (i) Environmental Science, (ii) English/ Hindi/ MIL Communication. These are mandatory for all Bachelor's Degree programs.	Theory/ Tutorial/ Practical/ others

Skill Enhancement Course	SEC	Skill Enhancement Course (SEC) courses is a value based or skill – based course aimed at providing hands on training, competencies, and skills. These courses may be chosen from a pool of courses designed to provide value based and / or skill based knowledge. These contain both theory and lab/ hands on/ field work. The main purpose of these courses is to increase employability.	Theory/ Tutorial/ Practical/ others
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## 2.10 Course Delivery

### Lecture

In theory papers, *one contact hour per week per credit* will be assigned in the time table for regular courses. For example, for a Four Credit Theory Course, Four hours of Lecture be allotted in the time table per week. Moreover, out of the total 60 hours of lectures, 40 hours will be for content delivery and 20 hours on diagnostic assessment, formative assessment, and subject/classroom activity/quiz, problem solving etc.

*Diagnostic Assessment* means an assessment that occurs at the beginning of the course or before a unit of instruction, to identify whether students have the prerequisite knowledge, understanding, or skills; provide information to assist in planning appropriate learning opportunities; identify student interests; identify misconceptions.

*Formative Assessment* means an ongoing assessment that keeps students, and educators informed of students' progress; provides direction to students on how to improve their learning; encourages students to take responsibility for their own progress; provides teachers with information upon which instructional modifications can be made; help teachers understand the degree to which students are achieving the learning expectations. The assignments, discussion thereon, problem solving related to course contents, activities asked to develop insightful understanding of the course contents

### Laboratory/ Practicum/Studio Activity Course

Two hours per week per credit will be assigned in the time table for regular Laboratory courses. For example, for a two Credit Laboratory Course, Four hours of Laboratory work will be allotted in the time table per week.

In Geography subject the Lab will consist of lectures on the concepts as well as practical exercises. Lab exercises will be completed by the students, which may also comprise of field work and / or computer exercises in related Courses. The students will have to prepare a Practical File which will be included in the final semester end evaluation.

**Tutorial (Not applicable for Geography)**

In the non-practical DCC as well as DSE courses the credit split is 5+1=6, where the later 1 credit is for tutorial specifically reserved for detailed derivation, survey, sampling methods, case studies, methods of data collection, site selection criterion and methods, literary work of a particular author, brief critics of a book, tangential contents of a topic of the course etc which cannot be covered in lecture. Out of the total 90 lectures for such courses, the 75 lectures shall be for content delivery and 15 hours on diagnostic assessment, formative assessment, and subject/class activity, problem solving, long derivations etc.

**2.11 Learning outcome**

Learning outcomes describe what a learner is expected to know, understand and be able to do after successful completion of a process of learning. These may be expressed in terms of competences. It can refer to a single course unit or else to a period of studies.

Learning outcomes specify the requirements for award of credit.

### **3.0 MINIMUM TOTAL AND COURSE CATEGORY WISE CREDIT REQUIREMENTS FOR THREE YEAR UNDERGRADUATE PROGRAM**

S. No.	Broad Category of Courses		Minimum Credit Requirement	
			3 Year UG	
1	Discipline Centric Core (DCC)	Subject 1	24	72
		Subject 2	24	
		Subject 3	24	
2	Discipline Specific Elective (DSE)	a. DSE	36	
		b. GEC		
		c. DPR		
		d. IOJ		
		e. CEC		
3	Ability Enhancement Compulsory (AEC)	Special type of Courses	04	
4	Skill Enhancement Course (SEC)		08	
5	Value Added Course Common for all UG (VAC)		-	
<b>Total</b>			<b>120</b>	

#### 4.0 STRUCTURAL FRAMEWORK FOR THREE YEARS UNDERGRADUATE PROGRAM

Structural framework of the three years B.A./B.Com./B.Sc. Program under NEP2020									
	I year		UG Certificate	II Year		UG Diploma	III Year		UG Degree
	SEM-1	SEM-II		SEM-III	SEM-IV		SEM-V	SEM-VI	
<b>Core Courses</b>	<b>DCC-A1 (6 Cr)</b> <b>DCC-B1 (6 Cr)</b> <b>DCC-C1 (6 Cr)</b>	<b>DCC-A2 (6 Cr)</b> <b>DCC-B2 (6 Cr)</b> <b>DCC-C2 (6 Cr)</b>	Student who opt to exit after completion of the I year securing 40 credits will be awarded a UG certificate if, in addition, he acquires 4 exit credits from SEC course from any recognized institute.	<b>DCC-A3 (6 Cr)</b> <b>DCC-B3 (6 Cr)</b> <b>DCC-C3 (6 Cr)</b>	<b>DCC-A4 (6 Cr)</b> <b>DCC-B4 (6 Cr)</b> <b>DCC-C4 (6 Cr)</b>	Student who opt to exit after completion of the II year securing 80 credits will be awarded a UG Diploma.	-	-	Students securing 120 credits and satisfying the minimum credit requirement to exit after completion of the III year securing 120 credits will be awarded a UG Degree.
<b>DSE / GEC</b>	-	-		-	-		<b>DSE-A1(6 Cr)</b> <b>DSE-B1(6 Cr)</b> <b>DSE-C1(6 Cr)</b>	<b>DSE-A1(6 Cr)</b> <b>DSE-B1(6 Cr)</b> <b>DSE-C1(6 Cr)</b>	
<b>AECC</b>	<b>AECC-1 (2Cr)</b>	<b>AECC-2 (2Cr)</b>		-	-		-	-	
<b>SEC</b>	-	-		<b>SEC-1 (2 Cr)</b> <b>(Communicative English)</b>	<b>SEC-2 (2 Cr)</b>		<b>SEC-3 (2 Cr)</b>	<b>SEC-4 (2Cr)</b>	
	<b>18+0+2+0=20</b>	<b>18+0+2+0=20</b>		<b>18+0+0+2=20</b>	<b>18+0+0+2=20</b>		<b>0+18+0+2=20</b>	<b>0+18+0+2=20</b>	
Cumulative minimum credit requirement for Certificate/Diploma /Degree	<b>40 (+4 exit SEC)</b>			<b>80</b>		<b>120</b>			
<b>72(DCC)+36(DSE/GEC)+4(AECC)+8(SEC)=120</b>									

#### Notes:

- (1) Geography can be one of the subjects (Subject A#, Subject B# and Subject C#) as per the subject combinations offered by the University.
- (2) 20 % of the credits in any category may be earned through online courses approved by the Department and Institution as per existing UGC regulations.
- (3) **Courses with Practical component in Geography : Theory (4 credits) + Practical (2 credits) = 6 credits**
- (4) Non-practical Courses: Theory (5 credits) + Tutorial (1 credit) = 6 credits (Numbers shown in brackets indicate Credits).

## 5.0 EXIT AND ENTRANCE POLICY

- 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 acquire 4 exit credits as SEC 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.
- Students who opt to exit after **completion of the second year** and have secured 80 credits will be awarded the **UG diploma**. These students are allowed to re-enter within a period of three years and complete the degree programme within the maximum period of five years.
- Students who wish to undergo a 3-year UG programme will be awarded **UG Degree after successful completion of three years**, securing 120 credits and satisfying the minimum credit requirement.

## 6.0 PROGRAMME SPECIFIC OBJECTIVES

Geography is important in building a better understanding of the world around us. The core idea of the discipline is to understand the man-environment relationship in spatio-temporal context. It has an unparalleled practical side. May it be urban or rural, economics or politics, industry or agriculture, flora or fauna, land or water, society or culture, planning or governance, practitioners of every field need some knowledge of geography to understand the past, present and inter-relationships between different phenomena. Owing to its vast scope and ramified applications, the subject is one of the core subjects at school level and also part of the General Studies curriculum of various competitive examinations.

The under graduate program offered by Department of Geography has been designed with twin objectives of developing a geographical aptitude with basic understanding of the various approaches of the discipline and preparing the students for various competitive examinations. The program complies with the National Education policy 2020 to provide a holistic and flexible learning experience to the learners and inculcating analytical skills, critical thinking, experiential learning, and creativity in them. The key features of the program include semester-based system to help students learn various branches of the subject, general as well as specialized in a three-year duration. Its multiple entry and exit system offer opportunities to acquire a Certificate (1-year), a Diploma (2-year) or a Graduate degree (3-year) in Arts stream. The program is also designed to have a continuous assessment and grading system of evaluation.

In view of high employability of geography students at all levels of school education, and range of other competitive exams, the curriculum includes Courses relevant to the same at various levels. The programme also aims to develop technical and data analytical skills through Courses on quantitative data analysis, surveying and geospatial technologies to enhance professional competence as well as opportunities for self-employability.

Summarily the *Programme Specific Outcomes* may be enumerated as under:

1. To introduce the students to the importance, fundamental approaches and branches of the discipline to understand the surroundings.
2. To familiarize students with the spatial variation and trends of the economic activities of man, and resource base and their sustainable utilization.
3. To impart comprehensive knowledge of the regional geography of the State, country and the world.
4. To develop a practical understanding of the cartographic tools and methods for geographical data collection and representation, and surveying and mapping techniques.
5. To acquaint learners with fundamentals of the state-of-the-art geospatial technology and its applications to the real-world problems.
6. To enable students to prepare for competitive examinations relevant for graduate students.

**7.0**

**SYLLABUS OF  
UNDERGRADUATE  
PROGRAMME**

**Semester-wise separate files are available on website**

## 8.0 SCHEME OF EXAMINATION

The Continuous Assessment (CA) procedure will be followed which contains the two components

- (1) The Internal Examination (IE), and
- (2) The End of Semester Examination (EoSE).

Letter grades in both components will contribute to the final grade. Credit points in a Course/Subject will be assigned only if, the student obtains **at least a P grade** in IE and EoSE examination of a Course/Subject.

In order to appear in the EoSE:

- The students must have 75% attendance.
- Relaxation to the students participating in the sports, co-curricular, cultural, NCC, NSS and any other similar activity approved by the Dean/Principal/Director/Head shall be permissible as per the rules given in information bulletin.
- The student must have appeared in the Internal Test and obtained **at least the P grade** in the course/subject.

**Students have to independently pass in the internal examination of each paper.** The Internal Examinations will be conducted by the respective teaching faculty. The Principal/ Head of the Department may assign the responsibility to any other faculty if required.

**The marks awarded in the Internal Examination shall not be counted to calculate and award the final score, SGPA and the CGPA.**

### 8.1 Internal Examination (Internal Test + Internal Assessment) (20 marks)

The maximum marks of each paper shall be 20. The minimum passing marks shall be 8. It will consist of two parts; a **Test (10 Marks)** and an **Internal Assessment (10 Marks)**.

#### Internal Test (10 Marks)

- The Internal Test for **Theory and Practical Courses** shall be based on the Course content. It will contain 10 questions including MCQs (Multiple Choice Questions), True/ False, one word answer type questions.
- The Internal Test for Theory Courses may be administered electronically / in hard copy. The faculty shall maintain a record of the answer sheets of the students (electronic / hardcopy) as per University norms.
- The Internal Test for Laboratory/ Practical Courses shall be administered **physically**. The faculty shall maintain a record of the answer sheets of the students as per University norms.
- The time allowed for Internal Test shall be **01 Hour for both Theory and Practical Courses**.



**Internal Assessment (10 Marks)**

- *Theory Courses* : Internal Assessment shall be of **maximum 10 marks**. This part shall be based on the performance of students in the assignments/ Seminars/quiz etc. In case of assignments, the teacher will **give at least five assignments distributed over the entire course contents**. These will be submitted by the students to the teacher for evaluation as per the schedule decided by the faculty concerned. The nature and type of activities / assignments may be decided by the teaching faculty in alignment with specific requirements of the respective Course.  
The faculty shall maintain a record of the assignments of the students (electronic / hardcopy) as per University norms.
- *Laboratory/ Practical Courses* : In Laboratory/Practical papers internal assessment shall be done on the basis of lab activity. The students will be assigned **04 lab exercises / field activities/ computer based activities** (as per the nature of the Course) aligned with the contents of the Course. The students will be required to **attempt any 02 of the 04 exercises/ activities**.
- The time allowed for Internal Assessment shall be **01 Hour for Practical Courses**. **The assessment will be held immediately after the Internal Test of the respective Course**.

THE EVALUATION FOR SKILL COURSES WILL BE AS PER THE SCHEME FOR PRACTICAL COURSES UNLESS SPECIFIED SEPARATELY.

## 8.2 End of Semester Examination (80 marks)

### Theory Courses/ Papers

A template of the question paper of theoretical courses has been displayed in the following table. The same pattern shall be followed for each theory papers.

The template of EoS examination of theory papers.		
Duration : 3.00 Hour	Max. Marks: 80	Min. Marks: 32
<b>SECTION-A</b>		
(Answer all questions, Each question is of 2 marks)		
(Two very short answer type questions within the limit of 50 words shall be asked from each unit without any internal choice)		
<b>Marks: 10 x2=20</b>		
<b>Q. 1</b>		
(a)		
(b)		
(c)		
(d)		
(e)		
(f)		
(g)		
(h)		
(i)		
(j)		
<b>SECTION-B</b>		
(Answer all questions, Each question is of 8 marks)		
(Five Long Answer type questions to be answered within the limit of 250 words each, shall be asked from each unit with internal choice)		
<b>Marks: 5x8=40</b>		
<b>Q. 2</b>		
	OR	
<b>Q. 3</b>		8 Marks
<b>Q. 4</b>		
	OR	
<b>Q. 5</b>		8 Marks
<b>Q. 6</b>		
	OR	
<b>Q. 7</b>		8 Marks
<b>Q. 8</b>		
	OR	
<b>Q.9</b>		8 Marks
<b>Q. 10</b>		
	OR	
<b>Q. 11</b>		8 Marks
<b>SECTION-C</b>		
(Answer any two questions, Each question is of 10 marks)		
(Four Long Answer type questions to be answered within 350 words each, shall be asked without internal choice. A question can have only two sub-divisions)		

<b>Marks: 2x10=20</b>	
<b>Q. 12</b>	10 Marks
<b>Q. 13</b>	10 Marks
<b>Q. 14</b>	10 Marks
<b>Q. 15</b>	10 Marks

### *Practical Courses/ Papers*

#### **Maximum Marks-80**

The distribution of 80 marks will be as follows :

- A. Lab exercise - 45 Marks
- B. Record Work - 25 Marks
- C. Viva-voce - 10 Marks

#### **A- Lab exercise – 45 marks**

Practical exercise shall be of three hours duration and candidates will be required to attempt any 3 exercises out of 5 exercises.

#### **B- Record work – 25 marks**

#### **C- Viva-Voce - 10 marks**

The system of conduct of the examination by Internal/ External examiner shall be as per the policy of the University.

### **7.0 Letter Grades and Grade Points**

<b>Letter Grade</b>	<b>Grade Point</b>	<b>Marks Range (%)</b>
O (outstanding)	10	91 - 100
A+ (Excellent)	9	81 – 90.99
A (Very good)	8	71 – 80.99
B+ (Good)	7	61 – 70.99
B (Above average)	6	51 – 60.99
C (Average)	5	45 – 50.99
P (Pass)	4	40 – 44.99
F (Fail)	0	Less than 40
Ab (Absent)	0	