

B.Sc.(Four Years) Agriculture 1st & 2nd Semester

FIRST SEMESTER

S.No	Course No.	Name of Paper/Course	Max. Marks	Theory Periods/Week	Practical Period/Week	Int. Ass.
1.	111	Punjabi/History & Culture of Punjab *	50	3	-	10
2.	112	English	75	3	-	15
3.	113	Basic Mathematics-I (Elementary Algebra & Trigonometry)	100	3	-	20
4.	114	Computer Applications	70+30	3	1	15+5
5.	115	General Botany	70+30	3	1	15+5
6.	116	Basic Economics	75	3	-	15
7.	117	Introductory Agro Climatology	70+30	3	1	15+5
8.	118	Elements of Agronomy	70+30	3	1	15+5
		Total	600	24	4	140

SECOND SEMESTER

S.No	Course No.	Name of Paper/Course	Max. Marks	Theory Periods/Week	Practical Period/Week	Int. Ass.
1.	121	Agricultural Journalism and language Culture	100	3	-	20
2.	122	Landscaping and Floriculture	50+25	3	1	10+5
3.	123	Introduction to Soil Sciences	70+30	3	1	15+5
4.	124	Basic Biochemistry	70+30	3	1	15+5
5.	125	Fundamentals of Microbiology	50+25	3	1	10+5
6.	126	General Zoology	70+30	3	1	15+5
7.	127	Basic Mathematics -2 (Analytical Geometry and Calculus)	100	3	-	20
8.	128	Environment, Road Safety Education, Violence against Women & Children and Drug Abuse*	-	-	-	-
9.	129	Punjabi/History & Culture of Punjab	50	3	-	10
		Total	600	24	5	140

*Qualifying Paper

THIRD SEMESTER

S.No	Course No.	Name of Paper/Course	Max. Marks	Theory Periods/Week	Practical Period/Week	Int. Ass.
1.	231	Agronomy -I (Kharif Crops)	70+30	3	1	15+5
2.	232	Elements of Genetics	70+30	3	1	15+5
3.	233	Manures and Fertilizers	50+25	3	1	10+5
4.	234	Fundamental of Agricultural	70+30	3	1	15+5

5.	235	Economics (Farm Management)				
6.	236	Agricultural Microbiology	50+25	3	1	10+5
7.	237	Horticulture (Vegetable Growing)	50+25	3	1	10+5
		Animal Husbandry	50+25	3	1	10+5
		Total	600	21	7	120

FOURTH SEMESTER

S.No	Course No.	Name of Paper/Course	Max. Marks	Theory Periods/Week	Practical Period/Week	Int. Ass.
1.	241	Agronomy –II(Rabi Crops)	70+30	3	1	15+5
2.	242	Horticulture (Fruit Growing)	50+25	3	1	10+5
3.	243	Agricultural Botany and Crop Physiology	70+30	3	1	15+5
4.	244	Statistical Techniques in Agriculture	50+25	3	1	10+5
5.	245	Introductory Entomology	50+25	3	1	10+5
6.	246	Soil Physics & Conservation	50+25	3	1	10+5
7.	247	Introductory Plant Breeding	70+30	3	1	15+5
		Total	600	21	7	120

FIFTH SEMESTER

S.No	Course No.	Name of Paper/Course	Max. Marks	Theory Periods/Week	Practical Period/Week	Int. Ass.
1.	351	Farm Forestry	70+30	3	1	15+5
2.	352	Applied Plant Breeding & Biotechnology	70+30	3	1	15+5
3.	353	Rural Sociology and Rural Psychology	70+30	3	1	15+5
4.	354	Dairy and Poultry	70+30	3	1	15+5
5.	355	Agricultural Engineering	70+30	3	1	15+5
6.	356	Introductory Seed Technology	70+30	3	1	15+5
		Total	600	18	6	120

SIXTH SEMESTER

S.No	Course No.	Name of Paper/Course	Max. Marks	Theory Periods/Week	Practical Period/Week	Int. Ass.
1.	361	Plant Pathology	70+30	3	1	15+5
2.	362	Crop Experimentation & Applied Statistics	70+30	3	1	15+5
3.	363	Applied Entomology	70+30	3	1	15+5
4.	364	Introductory Food Technology	70+30	3	1	15+5
5.	365	Economic Zoology	70+30	3	1	15+5

SEVENTH SEMESTER

S.No	Course No.	Name of Paper/Course	Max. Marks	Theory Periods/Week	Practical Period/Week	Int. Ass.
1.	471	Project Planning, Evaluation and Implementation	100	3	1	20
2.	472	Sericulture and Apiculture	70+30	3	1	15+5
3.	473	Medicinal and Aromatic Plants	70+30	3	1	15+5
Specialization Agronomy						
	47EAG1	Crop Ecology and Farm Crop System	70+30	3	1	15+5
	47EAG2/ 47EPB3	Insect Pests of Field Crops	70+30	3	1	15+5
	47EAG3	Recent Trends in Agronomy or Plant Breeding	70+30	3	1	15+5
	47EPB1	Fundamentals of Plant Breeding	70+30	3	1	15+5
	47EPB2	Biometrical Genetics	70+30	3	1	15+5
	47EPB3/ 47EAG2	Insect Pests of Field Crops	70+30	3	1	15+5
	47EH01	Pomology-I	70+30	3	1	15+5
	47EH02	Nursery Production	70+30	3	1	15+5
	47EH03	Insect Pests of Horticulture and Vegetables	70+30	3	1	15+5
Total			600			

EIGHTH SEMESTER

S.No	Course No.	Name of Paper/Course	Max. Marks	Theory Periods/Week	Practical Period/Week	Int. Ass.
1.	481	Recent Trends in Agriculture	70+30	3	1	15+5
2.	482	Irrigation & Water Management	70+30	3	1	15+5
3.	483	Internship in Agricultural Related Ind./Vet. Hop./Village/Govt. Nurseries	100	Practical Training of one month in duration		
Specialization Agronomy						
	48EAG1	Weed Control	70+30	3	1	15+5
	48EAG2	Bio fertilizers	70+30	3	1	15+5
	48EAG3/ 48EPB3	Applied Plant Pathology or Plant Breeding	70+30	3	1	15+5
	48EPB1	Breeding Field Crops	70+30	3	1	15+5
	48EPB2	General Genetics	70+30	3	1	15+5
	48EPB3/ 48EAG3	Applied Plant Pathology or Horticulture	70+30	3	1	15+5
	48EH01	Pomology-II	70+30	3	1	15+5
	48EH02	Culturing Vegetable	70+30	3	1	15+5
	47EH03	Diseases of Fruits and Vegetables	70+30	3	1	15+5
Total			600			

PANJABUNIVERSITY CHANDIGARH- 160 014 (INDIA)

(Estded. under the Panjab University Act VII of 1947-enacted by the Govt. of
India)



FACULTY OF SCIENCE

SYLLABI FOR

POSTGRADUATE DIPLOMA

IN

COMPUTER APPLICATIONS

FOR

**EXAMINATIONS 2020-21
(SEMESTER SYSTEM)**

--:O:-

Outline of the Syllabi and Courses for Post Graduate Diploma in Computer Applications for Examination (Semester System).

FIRST YEAR (SEMESTER -I)

Paper Code	Paper Name	Lecture	Tutorial	Practicals/Weeks	Exam. Marks	Int.Ass. Marks	Total Marks	Exam Hours
PGD-1101	Computer Fundamentals	5	1	0	60	15	75	3
PGD-1102	Computer Programming using C	5	1	0	60	15	75	3
PGD-1103	DataBase Management System	5	1	0	60	15	75	3
PGD-1104	Data Communications and Networks	5	1	0	60	15	75	3
PGD-PR-1105	Lab1 (Based on PGD-1101 & PGD-1102)	0	0	9	60	15	75	3
PGD-PR-1106	Lab2 (Based on PGD-1103)	0	0	9	60	15	75	3
TOTAL PERIODS =42					TOTAL MARKS = 450			

FIRST YEAR (SEMESTER -II)

Paper Code	Paper Name	Lecture	Tutorial	Practicals/weeks	Exam. Marks	Int.Ass. Marks	Total Marks	Exam Hours
PGD-2101	Object Oriented Concepts Using JAVA	5	1	0	60	15	75	3
PGD-2102	Web Technologies	5	1	0	60	15	75	3
PGD-2103	Software Engineering	5	1	0	60	15	75	3
PGD-2104	Computer Based Accounting	5	1	0	60	15	75	3
PGD-PR-2105	Lab3 (Practical based on PGD-2101)	0	0	9	60	15	75	3
PGD-PR-2106	Lab4 (Practical based on PGD-2102)	0	0	9	60	15	75	3
PGD-2107	Project Work : Project will involve Development of Business Application / Web Site	0	0	6	0	--	100	-
TOTAL PERIODS =48					TOTAL MARKS = 550			

Note: Pass Marks 40% marks in Theory, Internal Assessment, and Practical separately.
50% marks for Project Work.
50% marks in Aggregate to qualify the examinations.

**GEOGRAPHY
SEMESTER-VI**

Paper-XI: WORLD REGIONAL GEOGRAPHY- II

Max. Marks	:	70
Theory	:	60
Internal Assessment	:	10
Time	:	3 Hours

Objectives:

To provide an understanding of the concept of world regions with respect to Land, People, Polity and Economy; the physical and human resource base and their interface with economic development; development problems and prospects.

Course Content:

Study of the following regions of the world in terms of constituent countries: strategic location, salient physical, demographic and economic features, cultural patterns, resource base, economic development, problems, prospects and issues related to regional groupings (South Asian Association of Regional Cooperation, Association of South East Asian Nations, Organization of Petroleum Exporting Countries and Organization of African Unity).

	UNIT-I	
(i) East Asia		(20 lectures)
	UNIT-II	
(ii) South East Asia	(iii) South Asia.	(30 lectures)
	UNIT-III	
(iv) Middle East and North Africa		(20 lectures)
	UNIT-IV	
(v) Africa South of Sahara		(20 lectures)

Note:

1. Questions will be put on region(s) as a whole and not on individual country. The questions should focus on regional perspective.
2. A map based compulsory question containing 15 short answer type questions shall be set covering the whole syllabus. The students shall attempt any 10 parts in about 30 words. Each part will carry 2 marks (Total 20 marks).
3. The whole syllabus will be divided into 4 units. Eight questions will be set out of the whole syllabus, 2 from each unit. The students will be required to attempt one question from each unit. Each question will carry 10 marks. (Total 40 marks) These will be in addition to the compulsory question.
4. Special credit will be given to suitable use of maps and diagrams. Use of unmarked stencils and colours will be allowed.
5. Six hours theory classes in a week are compulsory.
6. Internal assessment will be based on (i) class tests, (5marks) (ii) academic activities , seminar, Project , Assignment (3 marks) and (iii) attendance (2 marks).
7. For USOL, reappear/improvement candidate(s) who have not been assessed earlier for Internal Assessment, the question paper(s) in their case shall be of Maximum Marks allotted to the paper(s) concerned. **(The paper setter must put note 7 in the question paper.)**

Paper - XII: FIELD SURVEY BASED REPORT**Max. Marks: 30**

Time : 3 hours

- To acquaint the students with the importance of field work as one of the methodologies in geography.
- To familiarise the students about pre-field work and post-field work i.e. data processing and analysis and writing of field work report.

Distribution of Marks

i) Viva-Voce : 10 Marks

ii) Field Report: 20 Marks

- Fieldwork (Theory):**
- (i) Role of fieldwork in Geography.
 - (ii) Scale of study and fieldwork methodology.
 - (iii) Methods of collecting primary data : Observation, Interview and Questionnaire and Measurement.
 - (iv) Methods of field study of: a farm, a village, and a town. (20 lectures)

Note: The teachers should familiarize the students in the class before collection of primary data for preparation of field work.

Fieldwork (Practical): A field report of minimum 20 pages will be prepared based on primary data on problems such as (a) local market survey, (b) service area of school/ hospital; (c) traffic flow, and (d) socio-economic characteristics of student's village/ mohalla/ sector.

(25 lab. Sessions)

Note:

1. There will be no written paper for USOL and college students.
2. Practical exam at the respective colleges shall be conducted by one internal and one external examiner. The external examiner shall be appointed by the Principal of the respective colleges in consultation with the senior most teacher the Geography in the college.
3. Evaluation of Field Report will be done at the time of viva-voce examination. There will be no laboratory exercise at that time.
4. There will be no viva-voce examination for the candidates appearing through the USOL. They will be required to submit their Field Report with the University School of Learning (Department of Geography) at least 10 days before the commencement of their examination. Their Field Report will be evaluated by two examiners (including at least one from the USOL).
5. For the students of USOL there will be an internal assessment of 10 marks in lieu of the viva-voce examination in field report. The marks obtained by the candidate will be added to the marks awarded by the internal and external examiners evaluating the Field Report.
6. All students are required to submit a practical record based on theoretical component listed as fieldwork (theory)
7. A fresh field report shall be prepared by failed /improvement candidates.
8. For Practical classes, the number of students in one group shall not exceed fifteen.
9. There will be 3 hours of teaching per week for this paper.
10. For USOL, reappear/improvement candidate(s) who have not been assessed earlier for Internal Assessment, the question paper(s) in their case shall be of Maximum Marks allotted to the paper(s) concerned.

The paper setter must put note 10 in the question paper.