

Details of 1.3.2:

Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Year of offering	Program name	Subject	Name of the Course that include experiential learning through project work/field work/internship	Course code
2015-16	Bachelor of Science	Botany	Practical 4th sem and 6th sem	Practical II and Practical III
	Bachelor of Science	Zoology	Practical 4th sem and 6th sem	Practical II and Practical III
	Bachelor of Science	Biotechnology	Project work 6th sem	Project Work
	Bachelor of Tourism Management	Tourism	Field trip report 3rd sem	Field trip
	Bachelor of Arts	Geography	Introduction to Remote Sensing and Field Survey Report (Practical 6th sem)	304
		Total	5	
2016-17	Bachelor of Science	Botany	Practical 4th sem and 6th sem	Practical II and Practical III
	Bachelor of Science	Zoology	Practical 4th sem and 6th sem	Practical II and Practical III
	Bachelor of Science	Biotechnology	Project work 6th sem	Project Work
	Bachelor of Tourism Management	Tourism	Field trip report 3rd sem	Field trip
	Bachelor of Arts	Geography	Introduction to Remote Sensing and Field Survey Report (Practical 6th sem)	304
		Total	5	
2017-18	Bachelor of Science	Botany	Practical 4th sem and 6th sem	Practical II and Practical III
	Bachelor of Science	Zoology	Practical 4th sem and 6th sem	Practical II and Practical III

	Bachelor of Science	Biotechnology	Project work 6th sem	Project Work
	Bachelor of Tourism Management	Tourism	Field trip report 3rd sem	Field trip
	Bachelor of Arts	Geography	Introduction to Remote Sensing and Field Survey Report (Practical 6th sem)	304
		Total	5	
2018-19	Bachelor of Science	Botany	Practical 4th sem and 6th sem	Practical II and Practical III
	Bachelor of Science	Zoology	Practical 4th sem and 6th sem	Practical II and Practical III
	Bachelor of Science	Biotechnology	Project work 6th sem	Project Work
	Bachelor of Tourism Management	Tourism	Field trip report 3rd sem	Field trip
	Bachelor of Arts	Geography	Introduction to Remote Sensing and Field Survey Report (Practical 6th sem)	304
TOTAL		Total	5	
2019-20	Bachelor of Science	Botany	Practical 4th sem and 6th sem	Practical II and Practical III
	Bachelor of Science	Zoology	Practical 4th sem and 6th sem	Practical II and Practical III
	Bachelor of Science	Biotechnology	Project work 6th sem	Project Work
	Bachelor of Tourism Management	Tourism	Field trip report 3rd sem	Field trip
	Bachelor of Arts	Geography	Introduction to Remote Sensing and Field Survey Report (Practical 6th sem)	304
	PG Diploma	Guidance counselling and psychotherapy	Field work/Internship	Field work/Internship
TOTAL		Total	6	

PAPER -III PRACTICALS

Max. Marks- 80+20
Time- 6 Hrs. (2 Sessions)

Biology and Diversity of Seed Plants, Plant Anatomy and Plant Embryology

1. Describe/compare the given flowers A and B in semi-technical language giving V.S. of flowers, T.S. of ovaries, Floral Diagrams and Floral Formulae. Identify and assign them to their respective families giving reasons. 20
2. Identify, classify and write morphological notes on the given specimens C and D (from Gymnosperms) 10
3. Cut Transverse Section and prepare a double-stained permanent mount of the given material (from angiosperms/gymnosperms). Identify giving reasons and show it to the examiner. 12
4. Identify, giving the important characters of identification, the spots 1 and 2 (one material/slide each from gymnosperms and embryology of angiosperms). 10
5. Write morphological notes on the specimens E and F (from angiosperms). 10
6. Dissect out the globular/heart-shaped embryo from the given material. 4
7. Note-book, Collection and Collection Report. 12
8. Viva-voce. 12

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**Paper-III Practicals : Plant physiology,
Biochemistry,
Biotechnology, Ecology, &
Economic Botany.**

**Int. Assessment-20
Max. Marks - 80
Time- 6 hrs. (Two Sessions)**

- | | |
|---|------------|
| 1. Devise an experiment to demonstrate the physiological process (as per the list).
Perform it and show it to the examiners. | 15 |
| 2. Comment on the physiological/Biochemistry experiment
(Specimen/ set-up / Model / Chart). | 10 |
| 3. Test for carbohydrates / Proteins / Fats / Peroxidase activity. | 5 |
| 4. Ecological experiment/Ecological Specimens A & B (as per the list) | 10 |
| 5. Identify and Classify spots 1, 2, 3, and 4 from the point of view of economic importance
and morphology of the plant part used. | 20 |
| 6. Applied Botany experiment (as per the list). | 8 |
| 7. Note Book, Collection and field report. | 6 + 6 = 12 |
| 8. Viva-voce. | 10 |

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B.Sc. Part-II

Paper-III :

Guidelines/instructions for practical

Max. Marks : 100

Time allowed : 6 Hours
(2 Sessions M&E)

Note : Following exercises will be set in the examination as per marks assigned for each.

1.	Internal Anatomy – One (exposition, labeled diagram)	:	12
2.	Temporary Mountign – One (staining, identification, sketch)	:	06
3.	Museum specimens – five (identification, classification)	:	15
4.	Ecological note – one specimen	:	05
5.	Permanent slides – Three (identification with reasons)	:	09
6.	Bone – Two pieces (Identification & sketch)	:	10
7.	Physiology (Two exercises)	:	10
8.	Field excursion and report	:	08
9.	Practical record & slides	:	10
10.	Viva-voce	:	15

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B.Sc. Part-III

Guidelines/instructions for practical (Paper-III)

Max. Marks : 100
Time allowed : 6 Hours
(2 Sessions M&E)

- | | | | |
|----|---|---|----------------|
| 1. | Chemical analysis of water/soil | : | 10 marks |
| 2. | Identification and Classification of specimens (Eight) | : | 16 marks |
| 3. | Ecological note on economically important specimen (two) | : | 10 marks |
| 4. | Identification of histological and embryological slides with Reasons of identification (Two): feet and beaks of birds | : | 8 marks |
| 5. | Identification with reason feet/beaks of birds | : | 3 marks |
| 6. | Permanent preparation of histological slides
(a) Section cutting and stretching
(b) Staining, mounting, (c) identification & sketch | : | 18 marks (6,6) |
| 7. | Field Report | : | 10 marks |
| 8. | Practical note book | : | 10 marks |
| 9. | Viva-voce | : | 15 marks |

Note: Field report to be submitted alongwith answer books.


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SCHEME OF EXAMINATION W.E.F. 2011-12
B.Sc. (Biotechnology)

Paper No.	Title of Paper	Internal Assessment	Marks	Total Marks	Time
Ist Year					
SEMESTER I					
I	Introduction to Biotechnology	10	40	50	3 hrs.
II	Biochemistry I	10	40	50	3 hrs.
SEMESTER II					
III	General Microbiology	10	40	50	3 hrs.
IV	Biochemistry II	10	40	50	3 hrs.
V.	Practical (Semester I + Semester II)		100	100	3 hrs.
IInd Year					
SEMESTER III					
VI	Immunology	10	40	50	3 hrs.
VII	Molecular Biology	10	40	50	3 hrs.
SEMESTER IV					
VIII	Recombinant DNA Technology	10	40	50	3 hrs.
IX	Bioinformatics	10	40	50	3 hrs.
X	Practical (Semester III + Semester IV)		100	100	3 hrs.
IIIrd Year					
SEMESTER V					
XI	Animal Biotechnology	10	40	50	3 hrs.
XII	Plant Biotechnology	10	40	50	3 hrs.
SEMESTER VI					
XIII	Microbial Biotechnology	10	40	50	3 hrs.
XIV	Practical (Semester V + Semester VI)		100	100	3 hrs.
XV	*Project Work (In House)		50	50	
			Total =	900	

*Project work will be carried out during summer vacations after IInd year and project reports will be evaluated by external examiner by viva voce at the end of IIIrd year.

Note: There will be four theory periods per paper per week.


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Bachelor in Tourism Management (BTM) – Course Structure-2014-15

SEMESTER – I

Paper No.	Paper title	Marks	
		Internal	External
*BTM 101	English (Compulsory)	20	80
*BTM 102	Hindi (compulsory)	20	80
BTM 103	Business Environment for Tourism	20	80
BTM 104	Introduction to Tourism	20	80
BTM 105	Tourism Product of India (Natural)	20	80
BTM 106	Tourism Product of India (Cultural)	20	80
TOTAL MARKS		600	

SEMESTER – II


Paper No.	Paper title	Marks	
		Internal	External
*BTM 201	English (Compulsory)	20	80
*BTM 202	Hindi (compulsory)	20	80
BTM 203	Geography of Tourism	20	80
BTM 204	Transport Management	20	80
BTM 205	Tourism Documentation	20	80
BTM 206	Haryana Tourism	20	80
TOTAL MARKS		600	

FIELD TRIP

SEMESTER – III

Paper No.	Paper title	Marks	
		Internal	External
*BTM 301	English (Compulsory)	20	80
BTM 302	Tourism in India	20	80
BTM 303	Hotel Business	20	80
BTM 304	HRM in Tourism	20	80
BTM 305	Computer Applications in Tourism	20+30	50
BTM 306	Communication Skills & Personality Development	20+30	50
FIELD – TRIP REPORT & VIVA-VOCE		100	
TOTAL MARKS		700	

*BTM-English and Hindi in all semester is same as B.A. General (English & Hindi Compulsory)


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SEMESTER – IV

Paper No.	Paper title	Marks	
		Internal	External
*BTM 401	English	20	80
BTM 402	Pilgrimage Tourism	20	80
BTM 403	Principles of Management	20	80
BTM 404	Tourism Marketing	20	80
BTM 405	An Introduction to Travel Agency & Tour Operation Business in India	20	80
BTM 406	Communicative English	20	80
TOTAL MARKS		600	

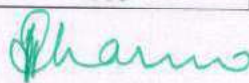
ON – THE- JOB – TRAINING

SEMESTER – V

Paper No.	Paper title	Marks	
		Internal	External
*BTM 501	English	20	80
BTM 502	Impacts of Tourism	20	80
BTM 503	Accounting for Tourism	20	80
BTM 504	Sustainable Tourism	20	80
BTM 505	Entrepreneurship in Tourism	20	80
BTM 506	International Tourism	20	80
On – the – job training Report & Viva – Voce		100	
TOTAL MARKS		700	

SEMESTER – VI

Paper No.	Paper title	Marks	
		Internal	External
*BTM 601	English	20	80
BTM 602	Tourism Administration in India	20	80
BTM 603	Economics of Tourism	20	80
BTM 604	Adventure Tourism	20	80
BTM 605	Tourist Guiding	20	80
BTM 606	Salesmanship in Tourism	20	80
TOTAL MARKS		600	


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**Paper 304 – Introduction to Remote Sensing and Field Survey Report
(Practical)**

**Maximum Marks: 30
Time: 3 Hours**

I - Remote Sensing Practical -15 Marks

Marks Breakup

Exercise = 9

Record book = 3

Viva-voce = 3

Note: There will be four questions in all and candidate has to attempt three exercises.

1. Demarcation of Principal Point, Conjugate Principal point and Flight line on Aerial Photographs – 1 Exercise
2. Determination of Scale of Aerial Photographs – 1 Exercise.
3. Interpretation of Single Vertical Photographs – 1 Exercise.
4. Use of Stereoscope and Identification of Features – 1 Exercise.
5. Identification of Features on IRSID, LISS III imagery (Mark copy of FCC) -1 Exercise.

II Socio-economic Survey and Report Writing -15 marks.

Marks Breakup

Field Survey Report = 10 marks

Viva-voce = 5 marks

Suggested Readings:-

1. John R. Jensen, Remote Sensing of the Environment; An Earth Resource Perspective, Pearson Education, (India Edition) New Delhi, 2009.
2. Lillesand and R.W.Kiefer, Remote Sensing and Image Interpretation, John Wiley and Sons, 1994.

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(Dr. Jarnail Sehrawat)

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PG DIPLOMA IN GUIDANCE, COUNSELING AND PSYCHOTHERAPY

Scheme of Examination
(From 2018-19)

There shall be three theory papers and one practical-cum-field work of 100 marks each.
All the four papers are compulsory.

Paper	Nomenclature	Marks	Time
Paper-I:	GUIDANCE	100	3 Hour
Paper-II:	COUNSELLING PSYCHOLOGY	100	3 Hours
Paper-III:	PSYCHOTHERAPY	100	3 Hours
Paper-IV	(i) PRACTICAL	50	3 Hours
	(ii) FIELD WORK	50	3 Hours


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Paper-IV (ii) Field Work

Max. Marks: 50

Field Work

To provide hands on experience in acquiring the necessary skill and competency in selecting, administering, scoring, and interpreting psychological tests and treating the individuals suffering from Psychological problems, the candidates need to engage themselves in active training under supervision.

Submission of Psychodiagnostic and Psychotherapy records.

- Four full-length Psychodiagnostic records to be prepared and submitted by the candidate. The records should include a detail clinical history and a discussion on a) rationale for testing b) areas to be investigated c) tests administered (d) test findings and e) Impression.
- Four full-length counseling and Psychotherapy records to be prepared and submitted by the candidate. The records should include a) reasons for interventions (b) short-term and long term objectives (c) type and techniques of intervention used with rationale d) Process of therapy (e) changes occurred during therapy and (e) final outcome.



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