



**GOVT. COLLEGE FOR WOMEN PARADE GROUND,
JAMMU-180001, J&K**

Criterion – VI Governance, Leadership and Management

Metric No. 6.5.1

Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Supporting Documents

Single Module Skill Courses
Introduced in Zoology, Bio-
technology & Commerce
(16-Credits each)

Spanning over 4 semesters
(III-VI)

IQAC

Govt. College for Women Parade, Jammu
(Autonomous College)

Minutes of the Meeting Convened on 17/4/2021

A meeting of the members of IQAC was convened by the principal on 17/4/2021 at 12-15 PM in the IQAC room of the College. The meeting was convened to make a detailed review of the extent to which the various objectives as envisioned in the vision & mission of the College have been realised, and suggest the course corrections required to bridge the shortfalls, if any. The main focus was to assess and propose thereof, any nuanced modification in the structure of the programmes offered, and the need to introduce new programmes/courses, so as to attune the teaching learning exercise to the requirements of the students and the continually changing demands of the society.

The members reviewed the complete curricular expanse of the college with regard to the following constituent elements and proposed certain changes to add purposeful diversity to it.

1. Skill Courses taught under different UG programmes
2. Introduction of Anthropology and Geology as subjects at UG level
3. Introduction of Earth Sciences as programme at UG level
4. Introduction of Honours programmes in Botany, Commerce, and Psychology.
5. Introduction of five years integrated programme of Zoology.
6. Introduction of Disaster management as a compulsory course for all UG programmes.
7. Introduction of B. Vocational programme.
8. Conduct of online classes using Gsuite platform

With regard to the skill courses taught under different UG programmes the basic purpose for such courses as envisaged under the CBCS pattern of curriculum prescribed by UGC(Skill Enhancement courses may be designed to provide value-based and/or skill-based knowledge and should contain both theory and lab/hands-on/training/field work. The main purpose of these courses is to provide students life-skills in hands-on mode so as to increase their employability) was revisited, and accordingly the following inferences were drawn.

- A. Besides the theory part the skill courses need to include a lab/hands-on/training/field work component, so as to impart the employable skills to the students and enhance the prospects of their employability in the job market. This aspect has been already discussed with the HoDs of different departments and the syllabi of the practical components of Skill Courses shall be framed by the Board of Studies of different departments.
- B. It was also observed that under the present scheme a student is given the choice to choose the four skill courses (one each in semesters 3rd-6th) required for the completion of the UG

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programme from a wide range of such courses offered by the College. These courses account for a broad spectrum of skills, and each course is distinct in itself and not in continuity with the other. Since the students have to choose four skill courses in the UG programme, and given the fact, that the scope and the design of each course is limited to cursory skilling, they end up with bits and pieces of different sets of skills not sufficient enough to raise their skill quotient to employable levels. The members proposed that some departments be persuaded to design specific modules of skill courses, with the aim that a particular skill set of some students is properly nurtured during the four semesters in which they are supposed to take up skill courses. The design and scope of each module shall have to be:-

1. To Identify a specific skill set and to develop the course curriculum spanning over four semesters for imparting training about the skill set from theory to hands-on to digital add-on to marketing of service or commodity outputs
2. The curriculum of the module shall have to be divided into four courses to be offered to desirous students from semester 3rd. to 6th for completion of their UG programmes.
3. The student who opts for the first course of a particular module in semester 3rd. shall have to take up other three of the same in the subsequent semesters i.e. 4th.to 6th.
4. The lateral entry of the students (opting for a course in semester 4th. to 6th. of a particular module when the course first of the same module in semester 1st. had not been opted) shall not be allowed.
5. The credit score of whole module shall be 16 (4 for each course)
6. All other features (examination pattern, marks for each course, evaluation scheme etc) of these skill modules shall be the same as that for other courses.
7. The students shall be informed about the scope, objective and the learning outcomes of these modules prior to the fact that they opt for such skill modules.
8. In case of feasibility, within purview of the examination and certification rules of the College a separate certificate shall be issued to the students who have opted for a specific skill module. The certificate shall highlight that a particular student has acquired a specific set of skills as indicated in the objectives and learning outcomes of the four courses taught under a specific Skill module. All these courses were a part of the completion of the UG programme opted by the student.

Some of the Skill modules can be:-

Department of Botany

Skill Module:-

a. Organic farming:-

Curriculum can be framed as follows.

1. Concept of organic farming, objective, scope and advantages


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2. Traditional and Modern farming (advantages/ disadvantages - environment impact, health hazards, biological fallout, food security in the long run, etc.)
 3. Soil health and farming:- composition of soil , soil fertility, soil atmosphere, soil porosity and water holding capacity- methods for increasing soil fertility.
 4. Crop water requirement:- soil water, Movement of water in the soil- diffusion , bulk flow etc. Optimum requirement of water for different crops- advantages /disadvantages of excess or scarcity of water for crop production. Production of crops and soil aeration, sunlight, day length etc.....
 5. Preparation of soil for crop cultivation;- Ploughing and tilling; Manual traditional Mechanical concepts advantages and disadvantages- protocol for effective ploughing and preparation of soil for cultivation.
 6. Addition of fertilizers to the soil :- bio fertilizers types, manures types methods of preparation, composting techniques- solid waste & Vermicompost advantages as a fertilizer and environmental concerns.
 7. Seed bed laying, preparation of seeds before sowing- testing viability, germination time, selection of seed, selection of crop, seedling transplantation .Mixed cropping;- concept, choices advantages etc
 8. De weeding – manual, biological methods, bio pesticides,
 9. Harvesting;- storage, spoilage etc crop insurance on field in store and transportation.
 10. Concept of Mandi system, Minimum support price, grading of crops, packaging and transportation to the markets, concept of e marketing, digital support for e marketing.
 11. Taxation of farm yield, financial support to farm sector from Govt. bodies,
 12. And further more.
- b. Integrated farming:- department of botany and zoology with inputs from commerce and computer department can design this module.

It shall include cultivation of crops primarily vegetables and cash crops like strawberry.

Rearing of fish, Poultry,

Marketing of the farm produce,

Digital knowledge about marketing of farm produce, and e marketing.

Similarly other departments can design and develop Skill modules, these modules shall be implemented as pilot projects to start with, once the success of such pilot projects are realised, then other departments shall be roped in to follow suit.

2. Introduction of Anthropology and Geology as subjects at UG level

Since one post of Anthropology has been sanctioned for the College, it was proposed that the subject be introduced at UG level. It was further proposed that the combination of subjects with Anthropology

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as one of them for a UG programme shall be framed in consultation with the concerned faculty. Every member was of the opinion, that Geology as a subject at the UG level should be introduced.

3. Introduction of "Earth Sciences" as programme at UG level :-

A detailed discussion on the scope and objectives of the introduction of "Earth Sciences" a new programme at the UG level from the ensuing academic session was undertaken and it was unanimously resolved that recommendations to this effect be forwarded to principal for approval and subsequently the same can be got approve by the academic council. It was also proposed that Geography, Geology, Physics/Mathematics/ Computer sciences/ etc shall be the subject combination of this programme. The principal and the members were of the opinion that further discussions with the Heads of various departments shall be undertaken to arrive at a final conclusion about this proposal.

4. Introduction of Honours programmes in Botany, Commerce, and Psychology.

Time and again the college think tank including the IQAC has put forth the proposal for introduction of honours programmes in different subjects so as to diversify the spectrum of the programmes offered in the College. Also, with every passing day the information expanse of each subject is proliferating, and the students deserve to get an opportunity to have access to the vast knowledge outburst of each discipline, rather than to remain ignorant or imperfectly acquainted with the subject by having a cursory over view of that . The members were of the view, that the HoDs of various departments be consulted to understand their outlook about the proposal and to get an insight of the departmental preparedness for the introduction of Honours programmes in their respective subjects.

5. Introduction of five years integrated programme of Zoology.

HoD and the faculty of the department of ZOOLOGY shall have to be consulted.

6. Introduction of Disaster management as a compulsory course for all UG programmes

1. Under the instructions of the Hon'ble Supreme Court of India it is mandatory for the education institutions to impart necessary and relevant knowledge about disaster management. In this context detailed deliberations were held during the course of this meeting and it was proposed the t department of Environmental Sciences shall prepare the course content of disaster management course get it approved by the board of studies . The course can be non-evaluative type comprising of two parts, part 1 and part 2 ,to be offered to the students of semester 3rd and 4th respectively. Other details shall be worked up by the faculty and head of the Environment Science department and approval shall have to be obtained from the board of studies of the concerned subject.


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7. Introduction of B. Vocational programme.

Details about the status of these programmes can be obtained from Dr. Apana Vohara of Zoology department and Dr. Preeti Dubey of computer department, and then the further advances for introduction of these can be initiated.

8. Conduct of online classes using Gsuite platform.

It was unanimously concluded that uniformity in the mode of online delivery of the classes at the college level shall have to be used. As such a specific online platform having all requisite features relevant to teaching learning and evaluation exercises shall have to be identified. Gsuite(Goole Classroom) LMS can be one such platform for the college to use as the means of undertaking classes and other related activities . The teachers and the students are required to be made familiar about the use of this platform, for which workshops for the faculty and the students can be organised.

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|------------------------------|---|----------|-------------------|
| 1. Prof. Shayat Kumar | - | Convener | <i>Shay</i> |
| 2. Prof. Nidhi Kotwal | - | Member | |
| 3. Prof. Sonia Sharma | - | Member | |
| 4. Prof. Alpna Vohra | - | Member | <i>Alpna</i> |
| 5. Prof. Shivani Suri Verma- | | Member | <i>Shivani</i> |
| 6. Prof. Rakesh Kumar-Pandit | | Member | <i>Rakesh</i> |
| 7. Prof. Piyali Arora | | Member | <i>Piyali</i> |
| 8. Prof. Preeti Dubey- | | Member | <i>Preeti</i> |
| 9. Prof. Jyoti Bahl- | | Member | <i>Jyoti Bahl</i> |

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Principal

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AGENDA ITEMS

9th MEETING OF ACADEMIC COUNCIL (17-11-2021)

- 9.1 Confirmation of minutes of 8th meeting of Academic Council.
- 9.2 Confirmation of Action taken report of 8th meeting of Academic Council.
- 9.3 Seeking approval for implementing revised syllabi of all the subjects in core courses & skill courses of Semester -3rd & 4th, duly approved by the Board of Studies of respective subjects.
- 9.4 Seeking approval for introducing embedded module based skill courses for Semester 3rd, 4th, 5th & 6th in Bio-informatics, Aquarium Fish keeping, E-commerce & Digital Marketing in addition to the already existing skill courses. The module would comprise of four (4) courses of 4 credits each in systematic progression from Semester 3rd to 6th.
- 9.5 Seeking post facto approval for MCQ based online external examination for Semester 2nd, 4th & 6th (Even semesters) 2020-21.
- 9.6 Seeking approval for allotting marks of external practical examination on proportionate basis to that of internal assessment examination of semester 2nd, 4th, 5th & 6th respectively.
- 9.7 Seeking approval for addition of eight (8) credits (2+2=4, 2+2=4 = 8) by introducing ability enhancement course in semester 3rd, 4th, 5th & 6th of science stream programmes.
- 9.8 After considering the recommendations made by the advisory Committee of college, approval is sought for the following items:
 - (a) Appointing single examiner/evaluator for the evaluation of answer scripts upto 50 in number. Furthermore, for more than 50 answer scripts, the appointment of Head examiner and sub examiners shall be followed.
 - (b) Appointing Associate Professor/Assistant Professor having not less than 10 years of experience for the purpose of re-evaluation of answer scripts. It is also proposed that a minimum of 40% of evaluated answer scripts should be revised by the Head examiner.
- 9.9 To inform the council about the date of inspection for the review and extension of Autonomous status of college.
- 9.10 To inform the council that the college is in the process of providing examination related documents(roll no slips, marks cards etc.) to students by the online mode.
- 9.11 To inform the council that a software has been developed by the college for the ease of submission of both internal as well as external assessment record of students, to save on time and number of days, so that the results shall be declared in stipulated time.
- 9.12 For the information of council, college is considering an option of onscreen evaluation of the answer scripts of PG classes.
- 9.13 College is considering the introduction of MCQ based offline, OMR based external examination for final examination of semester 6. It may be considered and in principle approval may be granted.
- 9.14 To inform the council that under the process of rationalization of subjects in different Govt. colleges of J&K by the Higher Education Department, our college has been allotted Anthropology as one of the subjects. One post along with the teacher has been sanctioned for the same. The subject shall be introduced from the current session 2021-22. Action taken may be confirmed.
- 9.15 Seeking approval for registering with Academic Bank of credits, subject to the conditions laid down by UGC.
- 9.16 Any other item with the permission of chair.
 - (a) To inform the council that on campus placement drives have been organized by the department of Computer Sciences.
 - (b) To inform and get the approval of the council for introduction of disaster management non evaluative course for the students of Semester 1 & 2 from the current session (2021-22). This has been initiated under the guidelines of Hon'ble Supreme Court of India.

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Minutes of the 9th meeting of Academic Council of the Autonomous Govt.

College for Women, Parade Ground, Jammu

Under the chairpersonship of Prof. (Dr.) S.P.Saraswat, the 9th meeting of the Academic Council of the autonomous Govt.College for Women, Parade Ground, Jammu was held in blended mode (online and offline) on 17th November 2021, in the conference room of college.

Following members attended the meeting offline/online mode:

1. All H.o.Ds
2. Convener IQAC
3. Members nominated by the Governing body of College and University of Jammu
 - Prof. R.K.Ganjoo, Department of Geology, University of Jammu(online mode)
 - Dr. Ajay Abrol(for Principal, GCET) (online mode)
 - Prof. M.K. Jyoti (Ex- HoD Zoology, University of Jammu) (offline mode)
4. Senior faculty nominated by the Principal
 - Dr.Jyotsna Mohan, Department of Commerce
 - Prof.Dharvinder Kumar, Department of Zoology
 - Dr.Shivani Suri Verma, Department of English

Member Secretary, Academic Council, GCW Parade, (Dr.) Sonia Khajuria (Deptt.of English), initiated the proceedings of the meeting and elaborated on the agenda items of the meeting. The Chairperson Prof. (Dr.) S.P.Saraswat delivered the opening speech.

Decisions/Resolutions taken (9th meeting of Academic Council)

Item No.9.1

Confirmation of minutes of 8th meeting of Academic Council

Resolution no.9.1

Confirmed and placed on record.

Item No.9.2

Confirmation of Action taken report of 8th meeting of Academic Council.

Resolution no.9.2

Approved and placed on record.

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Item No.9.3

Seeking approval for implementing revised syllabi of all the subjects in core courses & skill courses of semester-3rd & 4th, duly approved by the Board of Studies of respective subjects.

Resolution no.9.3

Approved and placed on record.

Item No.9.4

Seeking approval for introducing embedded module based skill courses for semester- 3rd, 4th, 5th & 6th in Bio informatics, Aquarium Fish Keeping, E-Commerce & Digital Marketing in addition to the already existing skill courses. The module would comprise of four (4) courses of 4 credits each in systematic progression from semester 3rd to 6th.

Resolution no.9.4

Approved and placed on record.

Item No.9.5

Seeking post facto approval for MCQ based online external examination for semester-2nd, 4th & 6th (Even Semester) 2020-2021

Resolution no.9.5

Approved and placed on record.

Item No.9.6

Seeking approval for allotting marks of external practical examination on proportionate basis to that of internal assessment examination of semester 2nd, 4th, 5th & 6th respectively.

Resolution no.9.6

Approved and placed on record.

Note- Item no. 9.6 was placed before council for one time approval and not as a routine exercise.

Item No.9.7

Seeking approval for addition of eight (8) credits (2+2=4, 2+2=4=8) by introducing ability enhancement course in semester 3rd, 4th, 5th & 6th of science stream programmes.

Resolution no.9.7

Approved and placed on record.

Item no. 9.7 is approved with suggestions from Prof. R.K. Ganjoo and Prof. M.K. Jyoti that the ability enhancement course for science students should be based on the basics of scientific writing. Dr. Ajay Abrol suggested that the students should be encouraged to enroll in the courses offered by NPTEL.

Item No.9.8

After considering the recommendations made by the Advisory Committee of college, approval is sought for the following items:

- (a) Appointing single examiner/evaluator for the evaluation of answer scripts upto 50 number scripts, the appointment of Head examiner and sub-examiners shall be followed.
- (b) Appointing Associate Professor/Assistant Professor having not less than 10 years of experience for the purpose of re-evaluation of answer scripts. It is also proposed that a minimum of 40% of evaluated answer scripts should be revised by the Head Examiner.

Resolution no.9.8

- (a) Approved and placed on record with a caveat. Council was of the opinion that the caution must be exercised to ensure no breach of trust by examiners failing which should invite strict actions. As a foolproof measure the Controller Examination must check some of the evaluated/re-evaluated answer scripts on a random basis.
- (b) Approved and placed on record.

Item No.9.9

To inform the council about the date of inspection for the review and extension of Autonomous status of college.

Resolution no.9.9

Informed and placed on record.

Item No.9.1

To inform the council that the college is in the process of providing examination related documents(roll no slips, marks cards etc.) to the students by online mode.

Resolution no.9.10

Appreciated by the council and placed on record.

Item No.9.11

To inform the council that a software has been developed by the college for the ease of submission of both internal as well as external assessment record of students, to save on time and number of days, so that the results shall be declared in stipulated time.

Resolution no.9.11

Council appreciated the item and at the same time expressed their concerns about Cyber Security issues against hacking of data etc. and suggested that necessary measures/processes should be put in place to guard against Cyber Security issues.

Item No.9.12

For the information of council, college is considering an option of onscreen evaluation of the answer scripts of PG classes.

Resolution no.9.12

Appreciated by the council. Concerns and suggestions are same as the preceding item.

Item No.9.13

College is considering the introduction of MCQ based offline, OMR based external examination for final examination of semester 6th. It may be considered and in principle approval may be granted.

Resolution no.9.13

Item to be reviewed

Council recommended MCQS to be restricted to the initial semester end exams

(Sem 1st, 2nd, 3rd & 4th) but final examination of semester 5th and 6th, should have subjected component to assess students' writing skills, ability to express, and extent of their knowledge acquisition. However, this item must be reviewed.

Item No.9.14

To inform the council that under the process of rationalization of subjects in different Govt. colleges of J&K by the Higher Education Department, our college has been sanctioned for the same. The subject shall be introduced from the current session 2021-22. Action taken may be confirmed.

Resolution no.9.14

Action taken confirmed. Council welcomed the introduction of the Anthropology as one of the subjects in college.

Item No.9.15

Seeking approval for registering with Academic Bank of credits, subject to conditions laid down by UGC.

Resolution no.9.15

Approved and placed on record.

Item No.9.16

Any other item with the permission of chair.

(a) Council was apprised of the use of Digilocker by college for the use of students for keeping their documents in digital form.

(b) Council was apprised of the working of Psychological Counselling Cell Manodarpan in college for dealing with the mental health and well being of students, parents and teachers.

(c) Council was informed that in order to add the value to the students in terms of Skill Enhancement, BCA department of college, got 67 students complete the certificate courses from NIELIT in Computing, and Android Programming respectively.

(d) To inform the council that on campus placement drives have been organised by the department of Computer Sciences in collaboration with NextG IOT Solutions, New Delhi, wherein two students of college were recruited by the company.

(e) To inform and get the approval of the council for introduction of Disaster Management non-evaluative course for the students of semester 1st & 2nd from the current session (2021-22). This has been initiated under the guidelines of the Hon'ble Supreme Court of India.

(f) Seeking approval for reduction of syllabi for the internal assessment examination from 40% to 20%

Resolution no.9.16

Item no. 9.16 (a, b, c, d) were appreciated by the council and placed on record.

Item no. 9.16(e)- Council was of view that this item must be reviewed. Prof. R.K. Ganjoo suggested that this course should not be a non-evaluated course. Council authorised the Convener IQAC to form a committee to take decision regarding this item. Furthermore, council suggested that the approval by circulation may be sought from the council for this item after getting it reviewed and duly approved by the authorised committee.

Item no. 9.16(f)- Council sent the item for review.

Chairperson released manual for Mental Health First-Aid facilitators

(MHFA-F)/Counsellors/clinical Psychologists: Psychological Counselling Cell

(under the initiative of Manodarpan, Ministry of Education, Govt. of India)

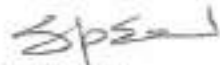
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The meeting concluded with vote of thanks to the Chair by the Member Secretary,

Dr.Sonia Khajuria (Deptt. Of English).

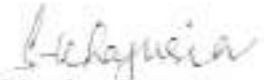
Minutes of 9th meeting of Academic Council are submitted for approval to the Chairperson of the Academic Council of College.



Chairperson

Academic Council

G.C.W. Parade, Jammu



Member Secretary

Academic Council

G.C.W.Parade,Jammu

GOVT. COLLEGE FOR WOMEN PARADE GROUND, JAMMU
PG Department of Zoology
Semester 3rd Skill Enhancement Course (UG)
Title: Aquarium Fish Keeping Coures/Subject Code: UZOTS-302

S.No	Class Roll No.	Registration No.	Student Name	Subject Code
1	2323	20GCPA1659	SONIA KUMARI	UZOTS-302
2	2843	20GCPA2030	AWASTHA TROACH	UZOTS-302
3	12	20GCPA2389	Musarat Altaf Mir	UZOTS-302
4	16	20GCPA2435	Diksha Sharma	UZOTS-302
5	17	20GCPA2445	Mamta	UZOTS-302
6	53	20GCPA2633	SIMRAN SHARMA	UZOTS-302
7	118	20GCPA2619	NEHA MANHAS	UZOTS-302
8	129	20GCPA2635	DEEPIKA	UZOTS-302
9	171	20GCPA2624	Vibhuti Jamwal	UZOTS-302
10	201	20GCPA2613	NEHA DEVI	UZOTS-302
11	205	20GCPA2424	TANU PRIYA	UZOTS-302
12	222	20GCPA2367	SMRITI SHARMA	UZOTS-302
13	248	20GCPA2357	Amisha Sharma	UZOTS-302
14	255	20GCPA2607	BHANVI BADYAL	UZOTS-302
15	263	20GCPA2559	Rashmeet kour	UZOTS-302
16	412	20GCPA2748	JASPINDERJEET KOUR	UZOTS-302
17	460	20GCPA2755	SUPINDER KOUR	UZOTS-302


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PG Deptt. Of Zoology


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GOVT. COLLEGE FOR WOMEN, PARADE GROUND JAMMU
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Syllabus and Course of Study in Zoology – B.SC. Semester-III
For examinations to be held in 2021-22, 2022-23, 2023-24

Skill Enhancement Course

- Course No.: UZOTS 301
- Course Title: Aquarium Fish Keeping
- Semester: 3
- CREDITS: 4

Course learning Objective:

This course has been designed to enable the students to give a hands-on training in all aspects of Aquarium industry. This shall enable the students to set up their own Aquarium cottage industry and establish themselves as entrepreneurs instead of job seekers.

Course Learning Outcome:

1. After completion of the course the students will be able to:
2. Comprehend the importance of Fish keeping as a hobby
3. Understand the concept of Rainbow Revolution
4. Understand the role of Aquarium Industry in economic upliftment
5. Know about different types of Aquaria
6. Prepare a glass aquarium.

Skill Theory Course

Credits = 2

Maximum marks 50
(Internal 10, External 40)

Unit I Aquaria: history, Significance, scope:

- 1.1 History and Importance of Aquarium fish Keeping
- 1.2 Global Aquarium industry and scenario in India
- 1.3 Concept of Rainbow Revolution in India
- 1.4 Capture and Culture Ornamental fishery
- 1.5 Scope of Aquaria and Aquarium fish as a Cottage Industry
- 1.6 Budget to set up an Aquarium Fish Farm
- 1.7 Various Government schemes for Ornamental fish Industry

Unit II Types of aquaria:

- 2.1 Types of Aquaria based on the material and size
- 2.2 Types of Aquaria based on water quality; kind of fishes stocked
- 2.3 Aquarium Stands
- 2.4 Tools and Materials required to make an Aquarium



**GOVT. COLLEGE FOR WOMEN, PARADE GROUND JAMMU
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**Syllabus and Course of Study in Zoology – B.SC. Semester-III
For examinations to be held in 2021-22, 2022-23, 2023-24**

Skill Practical Course

Credits = 2

**Maximum marks 50
(Internal 25, External 25)**

1. To study the different types of Aquaria.
2. To make an all glass aquarium
3. To survey the market and prepare a report on potential of Aquaria in entrepreneurship
4. A visit to an Aquarium to study the types of Aquaria
5. Identification of a few common Aquarium Fish
6. Identification of a few local ornamental fish.
7. To visit a local water body and prepare a checklist of local ornamental fish.

Books Recommended:

1. John Ellor Taylor (2016). The Aquarium; Its Inhabitants, Structure & Management. Wentworth Press
2. V K Jagtap, H S & Mukherjee, S N & Garad(2009). Textbook of Pisciculture and Aquarium Keeping. Daya Publishing House
3. Mundy Jim. Aquarium Making- Fishkeeping Maintenance.
4. Dey, V K (1997) Hand Book on Aquafarming: Ornamental fishes. Manual. MPEDA, Cochin.
5. Francis Day. The Fishes of India. Volume I and II. London. William Dawson and Sons Ltd.
6. Gunther Sterna. Fresh Water Fishes of The World. Volume I and II A Falcon Book from Cosmo Publications.
7. Recommended online reads: <https://www.britannica.com/science/aquarium>
https://www.gutenberg.org/files/40701/40701-h/40701-h.htm#A_CHAPTER_I
<https://www.fisheriesjournal.com/archives/2015/vol2issue3/PartA/3.pdf>

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(AN AUTONOMOUS COLLEGE)**

**Syllabus and Course of Study in Zoology – B.SC. Semester-IV
For examinations to be held in 2021-22, 2022-23, 2023-24**

Skill Enhancement Course

**Course No.: UZOTS 401
Course Title: Aquarium Fish Keeping
CREDITS: 4**

Course learning Objective:

This course has been designed to enable the students to give a hands-on training in all aspects of Aquarium industry. This shall enable the students to set up their own Aquarium cottage industry and establish themselves as entrepreneurs instead of job seekers.

Course Learning Outcome:

After completion of the course the students will be able to:

- Know about different Aquarium Accessories
- Set up an Aquarium
- Maintain and clean an Aquarium
- Comprehend Aquascaping
- Understand the basics of stocking an Aquarium
- Know about the physico-chemical parameters of aquarium water
- Know about various plants that can be used in Aquaria

**Skill Theory Course
Credits = 2**

**Maximum marks 50
(Internal 10, External 40)**

Unit I: Setting up of an Aquarium

- 1.1 Essentials to set up an Aquarium
- 1.2 Aquarium Accessories
- 1.3 Physico-chemical requirements of water in Aquarium
- 1.4 Aquascaping: Plants, ornaments, decoration used in aquaria

Unit II: Maintenance of an Aquarium

- 2.1 Aquarium Lighting
- 2.2 Aeration in an Aquarium
- 2.3 Temperature maintenance in an Aquarium
- 2.4 Filtration materials; types of Aquarium filters; Mechanical, Chemical and Biological Filtration
- 2.5 Cleaning an Aquarium with special reference to control of snail and algal growth

**Skill Practical Course
Credits = 2**

**Maximum marks 50
(Internal 25, External 25)**

1. Set up an aquarium
2. To study different substrate material used in an aquarium
3. To study different types of lighting material used in an Aquarium
4. To study and maintain physico-chemical parameters of aquarium water
5. To study different types of filters used in Aquaria
6. To study various plants used in aquaria
7. Aquascaping



GOVT. COLLEGE FOR WOMEN, PARADE GROUND JAMMU (AN AUTONOMOUS COLLEGE)

Syllabus and Course of Study in Zoology – B.SC. Semester-IV For examinations to be held in 2021-22, 2022-23, 2023-24

Books Recommended:

1. George Farmer (2020). Aquascaping. A Step-by-Step Guide to Planting, Styling, and Maintaining Beautiful Aquariums. Skyhorse Publishers
2. Moe Martin. (2013). Aquascaping. Ubiquitous Publishing
3. Koneman. (2000). The Complete Aquarium Guide - Fish, Plants and Accessories for your Aquarium. ISBN-13 : 978-3829017367

Online reads

1. https://www.lkouniv.ac.in/site/writereaddata/siteContent/202004150935214277sptrivedi_MAIN_TENANCE_OF_FISHES.pdf
2. https://www.diskuszucht-stendker.de/plugins_en/pdfs/3.1_Aquarium_Ausstattung_Filter_und_Deko_Tipps_en.pdf
3. <http://usa.hagen.com/File/a546488f-6dfa-42cc-9a76-5d8aa8853bd2>
4. <https://fdocuments.in/reader/full/the-complete-aquarium-guidea>

Evaluation strategy

Skill theory course

A) Internal assessment

1. Internal assessment (10 Marks) as per the adopted procedure for other courses.
2. No marks have been earmarked for attendance, however the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

B) External end semester Examination

1. Maximum Marks = 40.
2. Question paper shall have three (A, B and C) sections :-
 - Section A** shall comprise of 4 questions of 2 marks each.
 - i) 2 questions shall be set from each unit of the prescribed course content.
 - ii) All questions shall be compulsory.
 - Section B** shall comprise of 4 questions of 5 marks each
 - i) 2 questions shall be set from each unit of the prescribed course content.
 - ii) All questions shall be compulsory.
 - Section C** shall comprise of 3 questions of 12 marks each.
 - i) 1.5 questions shall be set from each unit of the prescribed course content.
 - ii) Students shall be asked to attempt only one question of 12 marks from this section.

Skill Practical course

A) Internal assessment

1. Internal assessment (25 Marks) as per the adopted procedure for other courses.
2. 5 marks have been earmarked for attendance, and the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

B) External end semester Examination

Maximum Marks =25.

Procedure of the external examination shall be same as is followed in other practical courses.

GOVERNMENT COLLEGE FOR WOMEN, PARADE GROUND, JAMMU
DEPARTMENT OF COMMERCE

LIST OF STUDENTS ENROLLED IN 'DIGITAL MARKETING AND E-COMMERCE
(SKILL ENHANCEMENT COURSE)
COURSE No.: UBCTS 309
SESSION 2021-22

S.NO.	NAME	CLASS ROLL NO.	REGISTRATION NO.
1	Kajal Bhau	1001	20GCPA2970
2	Rupali Sharma	1002	20GCPA2111
3	Suruchi Jain	1003	20GCPA2115
4	Ojasvi Aggarwal	1004	20GCPA2115
5	Mandeep Kour	1005	20GCPA2090
6	Shriya Bhat	1006	20GCPA2203
7	Vanshika Sharma	1007	20GCPA2105
8	Diya Sharma	1008	20GCPA2096
9	Komal Choudhary	1009	20GCPA2976
10	Nisha Chouhan	1010	20GCPA2142
11	Kritika Gupta	1011	20GCPA2977
12	Suhani Devi	1012	20GCPA2206
13	Stuti Gupta	1013	20GCPA2099
14	Shagufta Sultan	1014	20GCPA3254
15	Janvi Sharma	1015	20GCPA2141
16	Avishi Sharma	1016	20GCPA2246
17	Shivani Gorla	1017	20GCPA3052
18	Shaivya Sanyal	1018	20GCPA2091
19	Jannat Kour	1019	20GCPA2171
20	Jyoti Bala	1020	20GCPA2146
21	Anchal Kumari	1021	20GCPA2179
22	Mehak Bajgal	1022	20GCPA2123
23	Priyanka Deol	1023	20GCPA2097
24	Muskan Soi	1024	20GCPA2215
25	Mehak Mawa	1025	20GCPA2229
26	Muskan Kalgotra	1026	20GCPA2094
27	Rachita Gouda	1027	20GCPA2117
28	Anshima	1028	20GCPA2280
29	Reetika Charak	1029	20GCPA2128
30	Manisha	1030	20GCPA2985
31	Suriya Sharma	1031	20GCPA2151
32	Indu Sharma	1032	20GCPA2194
33	Taranjeet Kour	1033	20GCPA2214
34	Ashima Raina	1034	20GCPA2092
35	Simran Sharma	1035	20GCPA2231
36	Simran Mehra	1036	20GCPA2250
37	Aneeqa Nabi	1037	20GCPA2310
38	Isha Arora	1038	20GCPA2989

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HOD COMMERCE

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PRINCIPAL
Govt. College for Women
Parade Ground, Jammu



GOVERNMENT COLLEGE FOR WOMEN PARADE

(An Autonomous College) NAAC accredited 'A'

B.COM. THIRD SEMESTER (CBCS)

DIGITAL MARKETING AND E-COMMERCE-I (SEC)

C.No. : UBCTS309

Credit: 4

Time: 1 Hour and 30 min.

Max. Marks = 100

Internal Assessment = 10 marks (Theory),
25 marks (Practical)

External Exam = 40 marks (Theory),
25 marks (Practical)

(Syllabus for examination to be held in 2021, 2022, 2023)

OBJECTIVE: To provide exposure and develop the basic skills of the students regarding digital marketing.

COURSE LEARNING OUTCOMES

After completing the course, the student shall be able to

CO1 understand the concept of digital marketing

CO2 comprehend the concept of search engine optimization

CO3 develop the proficiency to understand the functioning of MS Word

CO4 develop the dexterity to edit the photos

Apur

Devi

Jyoti Singh

Shruti

Dr



SKILL THEORY COURSE

UNIT-I: INTRODUCTION TO DIGITAL MARKETING

What is digital marketing; need for digital marketing; digital marketing platforms- organic and paid digital marketing; difference between traditional and digital marketing; advantages and limitations of digital marketing; the P-O-E-M Framework; skills required in digital marketing; future of digital marketing.

UNIT-II: SEARCH ENGINE OPTIMISATION

What is search engine, difference between portal and search engines, how search engines work, what is SEO, SEO techniques (on page and off page), difference between white hat, black hat and grey hat SEO; need for SEO; things to consider before starting SEO of any website; what is ranking; how Google rank a website; getting familiar with basic terms like crawlers, robots and spiders; how to choose a best search engine.

SKILL PRACTICAL COURSE

MS WORD AND ITS FEATURES: Overview, creating, saving, opening, importing, exporting and inserting files, formatting pages, paragraphs and sections, indents and outdents, creating lists and numbering; headings, styles, fonts and font size; Editing, positioning and viewing texts, finding and replacing text; inserting page breaks, page numbers, book marks, symbols and dates; using tabs and tables, header, footer and printing.

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EDITING WITH PHOTOS:

Hands on training in Corel Paintshop/Adobe Photoshop:

Add professionally designed templates, text, dialogue, captions, effects, speech bubble, stickers to the photos; share or download HD graphs; draw lines, change background with cutouts; add photos to create overlays, create masks; add colours, border, filters to the photo; use curve tools, crop the photograph; adjust brightness and contrast of photo, rotate and adjust colour saturation; preparation of digital business card and digital poster.

BOOKS RECOMMENDED:

1. Kelsey Todd, CASA Marketing, CreateSpace Independent Publishing Platform (August 25, 2015)
2. Robert Fortunate Michael, Facebook Advertising, Independently Published (November 10, 2019)
3. Thornhill Gregory, Digital Marketing, Independently Published (November 20, 2019)
4. J. Rich Oliver, Digital Marketing For Beginners 2020, Independently Published (November 30, 2019)
5. Wilson Pamela, Master Content Marketing, Big Brand Books (October 21, 2016)
6. T. Warner Gerry, Social Media Marketing, CreateSpace Independent Publishing Platform (May 31, 2018)
7. SoniSagar, Digital Marketing, Independently Published (June 27, 2020)
8. Diamond Stephaine, Digital Marketing All-in-One for Dummies, For Dummies; 1st Edition (May 7, 2019)

Dr. Pooja Singh

Jyoti Sahil
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9. HyderShama, Brogan Chris, The Zen of Social Media Marketing, Ben Bella Books, Fourth Edition (August 16, 2016)
10. Miller Chandler, Preace Donald, Digital Marketing For Beginners 2020, Independently Published (July 31, 2019)
11. Rockwell Donald, Six Figure Digital Marketing Agency Success, Independently Published (July 12, 2019)
12. Shillington Sandra, What is Content Marketing?, Independently Published (June 14, 2019)

Note: Latest edition of readings may be used.

Note for Paper-setter

Each Skill Course shall comprise of theory and practical components. These shall be referred as Skill Theory course and Skill Practical course.

Each course (Skill Theory and Skill Practical) shall be of two credits.

Skill theory course

3. Total credits = 2
4. Maximum marks = 50 (Internal 10, External 40)

Evaluation strategy

C) Internal assessment

Internal assessment (10 Marks) as per the adopted procedure for other courses.

D) External end semester Examination

Maximum Marks =40.

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Question paper shall have three (A, B and C) sections :-

Section A shall comprise of 4 questions of 2 marks each.

- i) 2 questions shall be set from each unit.
- ii) All questions shall be compulsory.

Section B shall comprise of 4 questions of 5 marks each

- i) 2 questions shall be set from each unit.
- ii) All questions shall be compulsory.

Section C shall comprise of 3 questions of 12 marks each.

- i) 1.5 questions shall be set from each unit.
- ii) Students shall be asked to attempt only one question of 12 marks from this section.

Skill Practical course

1. Total credits = 2
2. Maximum marks = 50 (Internal 25, External 25)

Dr. Jyoti Sahil

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Jyoti Sahil

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B.COM (CBCS)

Govt. College For Women, Parade, Jammu
(An Autonomous College)
Department of Commerce



GOVERNMENT COLLEGE FOR WOMEN PARADE

(An Autonomous College) NAAC accredited 'A'

B.COM. FOURTH SEMESTER (CBCS)

DIGITAL MARKETING AND E-COMMERCE-II (SEC)

C.No.: UBCTS409
Credit: 4
Time: 1 Hour and 30 min.

Max. Marks = 100
Internal Assessment = 10 marks (Theory),
25 marks (Practical)
External Exam = 40 marks (Theory),
25 marks (Practical)

(Syllabus for examination to be held in 2022, 2023, 2024)

OBJECTIVE: To develop the skills of the students pertaining to key concepts of digital marketing.

COURSE LEARNING OUTCOMES

After completing the course, the student shall be able to

CO1 develop the understanding about social media marketing

CO2 understand the concept of content marketing

CO3 develop the skills to comprehend the usage of MS Powerpoint and MS Excel

CO4 develop the basic proficiency to edit and create videos

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SKILL THEORY COURSE

UNIT-I: INTRODUCTION TO SOCIAL MEDIA MARKETING

The role of social media marketing; identifying target audiences; social media channels: types and models; social media benefits and applications; social media marketing framework; how social media affects SEO; search engine optimization vs social media optimization; top social media marketing tools to consider; responsibility of a social media manager; some common social media mistakes.

UNIT-II: CONTENT MARKETING

What is content marketing; various elements of content marketing; the power of content marketing; traditional marketing vs content marketing; types of content marketing; various steps for an effective content marketing strategy; tools needed to implement content marketing; scope of content marketing.

SKILL PRACTICAL COURSE

MS POWERPOINT:

Presentation overview, entering information, presentation creation, opening and saving presentation, inserting audio and video.

MS EXCEL AND ITS FEATURES:

Exploring Microsoft Excel, creating Workbook Files, Editing Worksheet, Managing Worksheets and Workbook Files, Formulas.

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EDITING WITH VIDEOS:

Hands on training in the features of Canva.com/Inshot:

Trim the video, splitting of videos, exporting video into HD quality, merge video, combine video, compress video, modify the video aspect ratio, creating border, modifying its background, colour, adjust video's contrast, saturation and brightness, modifying music or sound of video, modifying speed of video, creating a sticker or text effect, rotate or flip, convert to MP4 format, creating video to share on social platforms.

BOOKS RECOMMENDED:

1. Kelsey Todd, CASA Marketing, CreateSpace Independent Publishing Platform (August 25, 2015)
2. Robert Fortunate Michael, Facebook Advertising, Independently Published (November 10, 2019)
3. Thornhill Gregory, Digital Marketing, Independently Published (November 20, 2019)
4. J. Rich Oliver, Digital Marketing For Beginners 2020, Independently Published (November 30, 2019)
5. Wilson Pamela, Master Content Marketing, Big Brand Books (October 21, 2016)
6. T. Warner Gerry, Social Media Marketing, CreateSpace Independent Publishing Platform (May 31, 2018)
7. SoniSagar, Digital Marketing, Independently Published (June 27, 2020)
8. Diamond Stephaine, Digital Marketing All-in-One for Dummies, For Dummies; 1st Edition (May 7, 2019)

Dr. Pooja Bhatnagar

Dr. Nisha Chahal

Jyoti Sahel

Dr. Anjali



9. HyderShama, Brogan Chris, The Zen of Social Media Marketing, Ben Bella Books, Fourth Edition (August 16, 2016)
10. Miller Chandler, Preace Donald, Digital Marketing For Beginners 2020, Independently Published (July 31, 2019)
11. Rockwell Donald, Six Figure Digital Marketing Agency Success, Independently Published (July 12, 2019)
12. Shillington Sandra, What is Content Marketing?, Independently Published (June 14, 2019)

Note: Latest edition of readings may be used.

Note for Paper-setter:

Each Skill Course shall comprise of theory and practical components. These shall be referred as Skill Theory course and Skill Practical course.

Each course (Skill Theory and Skill Practical) shall be of two credits.

Skill theory course

1. Total credits = 2
2. Maximum marks = 50 (Internal 10, External 40)

Evaluation strategy

A) Internal assessment

Internal assessment (10 Marks) as per the adopted procedure for other courses.

B) External end semester Examination

Maximum Marks =40.

Question paper shall have three (A, B and C) sections :-

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Section A shall comprise of 4 questions of 2 marks each.

- iii) 2 questions shall be set from each unit.
- iv) All questions shall be compulsory.

Section B shall comprise of 4 questions of 5 marks each.

- i) 2 questions shall be set from each unit.
- ii) All questions shall be compulsory.

Section C shall comprise of 3 questions of 12 marks each.

- i) 1.5 questions shall be set from each unit.
- ii) Students shall be asked to attempt only one question of 12 marks from this section.

Skill Practical course

- 1. Total credits = 2
- 2. Maximum marks = 50 (Internal 25, External 25)

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Govt. College for Women, Parade Ground, Jammu
Department of Biotechnology

LIST OF STUDENTS ENROLLED IN BIOINFORMATICS(SKILL ENHANCEMENT COURSE)

S.No.	Name of the student	Subject 1	Subject 2	Subject 3	Skill Subject	College Roll No	Registration No
1	Saksham Jamwal	Botany	Zoology	Chemistry	BIOINFORMATICS	33	20GCPA2468
2	Sukriti Dalpatia	Botany	Zoology	Chemistry	BIOINFORMATICS	46	20GCPA2566
3	Ashiyana firdous	Botany	Zoology	Chemistry	BIOINFORMATICS	106	20GCPA2511
4	Ritika Sharma	Botany	Zoology	Chemistry	BIOINFORMATICS	148	20GCPA2449
5	Diya Bangotra	Botany	Zoology	Chemistry	BIOINFORMATICS	212	20GCPA2431
6	Dherya Sharma	Botany	Zoology	Chemistry	BIOINFORMATICS	240	20GCPA2531
7	Ishita Gupta	Botany	Zoology	Chemistry	BIOINFORMATICS	251	20GCPA3091
8	Bhavya Sharma	Botany	Zoology	Chemistry	BIOINFORMATICS	277	20GCPA2556
9	Archita Sharma	Biotechnology	Zoology	Chemistry	BIOINFORMATICS	317	20GCPA2667
10	Akarshita Sharma	Biotechnology	Zoology	Chemistry	BIOINFORMATICS	321	20GCPA2666

Mahesh Tufche
HoD Biotechnology 25/05/22

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Parade Ground, Jammu



GOVT.COLLEGEFORWOMENPARADEGROUND JAMMU

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Autonomous College under University of Jammu
College for Potential for Excellence(2016)

Pattern for Examination

Each Skill Course shall comprise of theory and practical components. These shall be referred as Skill Theory course and Skill Practical course.
Each course (Skill Theory and Skill Practical) shall be of two credits.

Skill theory course

Evaluation strategy

A) Internal assessment

1. Internal assessment (10 Marks) as per the adopted procedure for other courses.
2. No marks have been earmarked for attendance, however the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

B) External end semester Examination

1. Maximum Marks =40.
2. Question paper shall have three (A, B and C) sections
 - i) Section A shall comprise of 4 questions of 2 marks each.
 - ii) 2 questions shall be set from each unit of the prescribed course content.
 - iii) All questions shall be compulsory.
 - i) Section B shall comprise of 4 questions of 5 marks each
 - ii) 2 questions shall be set from each unit of the prescribed course content.
 - iii) All questions shall be compulsory.
 - i) Section C shall comprise of 3 questions of 12 marks each.
 - ii) 1.5 questions shall be set from each unit of the prescribed course content.
 - iii) Students shall be asked to attempt only one question of 12 marks from this section.

Skill Practical course

Evaluation strategy

A) Internal assessment

1. Internal assessment (25 Marks) as per the adopted procedure for other courses.
2. 5 marks have been earmarked for attendance, and the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

B) External end semester Examination

Maximum Marks =25.

Procedure of the external examination shall be same as is followed in other practical courses.

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SKILL ENHANCEMENT COURSE

Course Title: Bioinformatics I

Course Credits: 02+02

Objective of the course: To introduce the basics of computers, information technology and molecular concepts under dry lab conditions for the emancipation of Skill development in students of Life Sciences.

Learning Outcome:

- The course structure is designed so as to provide an in-depth knowledge of all the necessary concepts related to bioinformatics, be it biology, basic engineering, information technology, computer or soft skill development.
- During this course, a student has to attend various laboratory experiments which provide a practical application of the concepts taught in the classrooms.
- These labs are a supplement to the classroom programs of the semesters.

Semester-III

Bioinformatics I

Unit-I Basics of Computers

1. MS-WORD: Learning Word Basics – Formatting a Word Document – Working with Longer Document. MS-EXCEL: Creating a Simple Spreadsheet – Editing a Spreadsheet – Working with Functions and Formula – Formatting Worksheets – Completing Your Spreadsheet – Creating Charts.
2. MS-POWERPOINT: Creating and Viewing Presentations – Editing a Presentation – Working with Presentation Special Effects; Internet, World Wide Web, Browsers, Search Engines.

Unit-II Molecular Concepts and Introduction to Bioinformatics

1. Basic molecular concepts: Types of Nucleotide Sequence: Genomic DNA, Complementary DNA (cDNA), Recombinant DNA (rDNA), Expressed sequence tags (ESTs), Genomic survey sequences (GSSs). Human Genome Project and outcome.
2. Introduction to Bioinformatics-Definition, History and Scope. Biological Databases; Primary, Secondary & Composite databases and importance of databases. Applications of Bioinformatics and industries in India and Worldwide involved in computational data collection and storage.

PRACTICALS

1. MS Office: Creating, Formatting and editing a document.

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2. MS – EXCEL: Creating a work sheet, moving / copying / inserting / deleting rows and Columns. (Usage of cut, paste commands, copying a single cell, copying a range of data, filling up a cell. Undo command, inserting a row, column Deleting rows and columns.)

-
3. Data base concept: Data base, Record field and field name – creating and sorting a data base and maintaining a data base (date form), Creating subtotals and grand totals.
 4. Creating charts (pie, Bar, Line).
 5. MS – POWER POINT: Creating a presentation, Different views in power point presentation Setting animation effects / grouping / ungrouping / cropping power/ point objects.
 6. To view and use the various biological databases available on the World Wide Web
 7. To explore the site of NCBI and PUBMED and to study the resources available on NCBI and PUBMED.

Books Recommended

1. Fundamentals of computers science and Communication Engineering. Alexis Leon & Mathews Leon, Vikas Publishing House Pvt. Ltd., New Delhi
2. Microsoft Office XP – fast & easy,DIANE KOERS Prentice Hall of India Private Limited, New Delhi
3. Dan E Krane and Michael L Raymer, fundamental concepts of bioinformatics,Pearson Education(low priced Edition)

Additional References

4. Lesk, Introduction to Bioinformatics, Oxford University Press, Indian Edition,2013
5. JinXiong , Essential Bioinformatics-Cambridge University Press, Printed and bound in India byReplika Press Pvt.Ltd.

Mahala Tughli



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SKILL ENHANCEMENT COURSE

Course Title: Bioinformatics II

Course Credits: 02+02

Objective of the course: To introduce the structure of Biomolecules and the Databases

Learning Outcome:

- Knowledge and awareness of the basic principles and concepts of biology and computer science.
- An understanding of the intersection of life and information sciences, the core of shared concepts, language and skills the ability to speak the language of database queries.

Semester-IV Bioinformatics II

Unit-I Structure of Nucleic Acids and Proteins

1. DNA and RNA; Base pairing- Watson crick; Types of double helices A,B,Z and their structural features; Types of RNA and their composition.
2. Hierarchical organization of protein structure- Primary, Secondary, Tertiary, Quaternary structure. Protein-DNA interactions.

Unit-2 Sequence Databases and Sequence Alignment Methods

1. Nucleotide Sequence Databases; GenBank, EMBL, DDBJ, NCBI Data Model. Protein Sequence Databases; SWISS-PROT, Translated EMBL (TrEMBL), UniProt, PROSITE, Pfam. Retrieval Systems: SRS, ENTREZ. NCBI Search.
2. Sequence alignment, Sequence Similarity Search: BLAST and FASTA, Pairwise sequence alignment: - Global and Local alignment, Multiple Sequence alignment (MSA):- Progressive and Iterative Methods , Eg:- Clustal W , Clustal X, Protein structure classification databases: SCOP and CATH, Human genome and diseases database – OMIM.

Manish Tufche



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Practicals

1. Queries based on biological databases
2. To retrieve a nucleotide sequence of interest from Genbank entry with Specific accession number.
3. To retrieve the nucleotide sequence of interest from the National Center for Biotechnology Information (NCBI) database.
4. To retrieve the structure of a protein from Protein Data Bank (PDB) database.
5. Sequence similarity searching using BLAST
6. Multiple Sequence Analysis
7. FASTA, ClustalW for multiple sequence alignment

Books Recommended

1. Bioinformatics- A Beginners Guide by Jean Michel Claverie, Cedric Notredame Wiley India Pvt. Ltd (Publisher)
2. Bioinformatics for Beginners – K.Mani and Vijayaraj. Kalaikathir Achagam
3. Fundamentals of Bioinformatics – Irfan Ali Khan, Atiya Khanum. Ukaaz publications.
4. Introduction to Bioinformatics - S.Sundararajan and Balaji
5. Bioinformatics basic methods and applications – S.C. Rastogi
6. Bioinformatics- Baxevanis AD and Quellette BFF, John Wiley and sons Inc.

Mahale Tufchi

Re-designing of Undergraduate
(UG) Skill Courses of all the
Subjects

(Theory - 2 credits

+

Practical - 2 credits)

&

New PG Programmes

(Zoology, English & MCA)



UNIVERSITY OF JAMMU
(NAAC ACCREDITED 'A+' GRADE UNIVERSITY)
JAMMU (J&K)-180006
COLLEGES DEVELOPMENT COUNCIL

Professor Rajni Kant
Director

No: CDC/2022/6775-87.
Dated: 17/11/2022.

To

The Principal,
Government College for Women (Autonomous),
Parade Ground, Jammu.

Subject: **Grant of Post-facto affiliation for introduction of new subjects/stream at UG and PG level.**

Sir/Madam

The Hon'ble Vice Chancellor, in anticipation of approval of the Competent Authority, is pleased to grant post-facto affiliation in favour of Government College for Women (Autonomous), Parade Ground, Jammu to start the following subjects/stream at undergraduate/Post graduate level with an intake/session shown against each.

SNO	Name of the subject	Proposed intake	Year of introduction
1	M.A. English	50	2018-19
2	M.Sc. Zoology	30	2018-19
3	MCA	30	2018-19
4	Geography (UG)	160	2017-18
5	Statistics (UG)	40	2018-19
6	Anthropology (UG)	80	2021-22
7	B.Com. Honors (UG)	80	2021-22

Yours sincerely,
Rajni Kant
DIRECTOR
17/11/2022

Copy to:

1. Special Secretary to Vice Chancellor
2. PS to Secretary, Higher Education Department, Govt. of J&K
3. Sr. P.A. to Dean Academic Affairs
4. Sr. P.A. to Controller of Examinations
5. I/c Director, Computer Center
6. Deputy/Assistant Registrar (Exams/Reg./Coord./Inf./Eval./Acad./Adm.)

Office of the Principal
Govt. College for Women, Parade Ground, Jammu.

Minutes of the meeting held on 19/6/2021.

An on-line meeting of the HoDs of various departments and the IQAC of the College was convened by the Principal on 19/6/2021. But due to some exigency the Principal could not attend the meeting, however the same was presided over by Dr. Nidhi Kotwal, HOD Home science, and the proceedings were moderated by the convenor IQAC.

The agenda of the meeting was to work out the details of introduction of new courses from the ensuing academic session i.e. 2021-22. The members of the meeting after thread bare discussions came to the following conclusions.

1. Practical (Lab. work, field exercises, project work/ hands on training/ field survey / combination of all) component shall be introduced in the syllabi of the skill courses offered by the College for the undergraduate students. The theory component of these courses shall be redesigned with a weightage of two credits only and practical (Lab. work, field exercises, project work/ hands on training/ field survey / combination of all) component shall account for two credits.
2. Anthropology as a subject shall be introduced at the UG level from the ensuing academic session, and the faculty has been instructed to make efforts to organise a meeting of the board of studies, so that the syllabi of semesters 1st. to 6th are framed prior to the start of the process of admission. The members also discussed about the various options available for accommodating Anthropology in combination with other subjects for the undergraduate programmes offered in the college. The following combinations have been proposed.
 - a) Anthropology, Zoology, Home science. b) Anthropology, Botany, Zoology. c) Anthropology, Geography, Economics. However, all the members were of the view that further consultations with the Principal are desired to choose any two suitable combinations.
3. Introduction of Disaster management as a compulsory short duration course at undergraduate level. After detailed discussion the members concluded and accordingly propose that this short duration course shall serve all intended purposes when introduced at semester level 1st or 2nd at the undergraduate level. As far as the other details regarding credit status and evaluation procedures are concerned the following two options were proposed.

In para 2, ~~sub para (a)~~
Combination (a) may be deleted.
40 seats each may be allotted to Combination
(b) and (c)
SpS
20/06/2021

Approved
2/2/22

a) The short duration course shall be non evaluative type, and introduced at 1st. or 2nd semester levels, separately for the undergraduate students of Science/ BCA, and Arts / commerce streams offered in the College. It shall be compulsory for the students to attend this course regularly, as their eligibility to appear in the end semester examination of other subjects shall be calculated on the basis of the percentage attendance in this course, besides that of the other subjects (the eligibility criteria shall be the same as prescribed in the College statutes). The course content shall be to that extent as is usually framed for a course of two credits. The course content shall also include on field in campus or out of the campus disaster management related exercisers.

b) This short duration course shall be introduced as a part of environmental studies course which is already being taught to the students of semester 1st. and 2nd of the undergraduate programmes offered by the College. In that case, the disaster management course shall be evaluative type, with a weightage of two credits, and constitutes as a part of the EVS course. However the marks cards and the degrees issued to the students shall not reflect disaster management course as it has been included as a component of EVS. Downgrading EVS from a four credit course to a two credit one shall not be appropriate as per the approved curricular structure of the College.

Faculty of EVS and that of geography are entrusted to frame the course contents and get it approved in the board of studies for introduction at the UG level.

Note :-it was proposed that the Principal shall be requested to take the final call on any of the two options mentioned above while considering the inherent pros and cones both of them.

4. **Introduction of Honours programmes:** - The College had planned to introduce Honours programmes in Commerce, English, Psychology and Botany from the academic session 2021-22. But due certain unforeseen delays arising out of the disruptions caused due to the Pandemic, the concerned departments could not set up the relevant requisites to start these programmes as such the introduction of Honours programmes in English, Psychology and Botany have been put on hold till the next academic session i.e. 2021-22. However, honours programme in commerce shall commence from the academic session 2021-22. HoD, commerce and the concerned faculty shall earnestly start setting up the necessary and relevant facilities for introduction of Honours in Commerce.
5. **All the HODs were informed that the revision of syllabi for semester 3rd. and 4th of UG and PG programmes is due.** As such all were requested to expedite the conduct of board of studies meetings of their respective departments. It was suggested that the

departments are desired to conduct the board of studies of their respective subjects by the end of the 2nd week of July, 2021.

Following HODs attended the meeting

1. Dr. Ritu Magotra
2. Dr. Shallu Sambyal
3. Dr. Avinash Kumar Gupta
4. Dr. Anuradha Gupta
5. Prof. Seema jolly
6. Prof. Mahak Tufchi
7. Prof. Vipul Saraf
8. Dr. Snobar
9. Dr. Mamta Sharma
10. Dr. Mohd. Majeed
11. Dr Raj Kumari
12. Dr. Dinesh Jamwal
13. Dr. Ganga Sharma
14. Roopali Jamwal
15. Dr. Rupinder kour
16. Dr. Shalika Gupta
17. Priya Darshni
18. Ainee Ambreena
19. Dr. Sushma Chib
20. Anupama Sharma
21. Dr. Balbir Kumar
22. Neena Kumari
23. Dr. Ravinder Kour
24. Prof. Ruhi Gupta
25. Prof. Neha Gupta
26. Prof. Sonam Chadgal

IQAC members attended

- Mr. Shayat Kumar (Convenor)
- Dr. Nidhi Kotwal
- Dr. Sonia Khajuria
- Dr. Alpana Vohra
- Dr. Shivani Suri Verma
- Dr. Piyali Arora
- Dr. Rakesh K. Pandit
- Dr. Preeti Dubey
- Ms. Jyoti Bahl

Submitted to principal for review and approval there after.

Approved.
All concerned for
immediate necessary action
30/06/2021



OFFICE OF THE PRINCIPAL
GOVT. COLLEGE FOR WOMEN, PARADE GROUND,
JAMMU.

Action taken Report

Pursuant to the recommendations extended by IQAC after the meeting held on 19/6/2021 the following initiatives have been rolled out.

1. Skill courses have been redesigned to accommodate practical component in the course content.
2. Anthropology has been introduced as one of the subjects in the B.A and B.Sc. programmes offered by the College. Anthropology, Botany and Zoology has been introduced as one combination and Anthropology with History as other.
3. Disaster Management a short duration non-evaluative course has been introduced at UG and PG levels.
4. Honours programme in commerce has been introduced from the academic session 2021-22
5. Revision of syllabi of different courses offered in semester 3rd. and 4th. of UG and PG programmes have been undertaken in different board of studies meetings of different subjects.

Principal.

faculty qualified to deal efficiently with certain technical aspects of the course content be roped in to maximize the benefit of this initiative.

- D.) To instill seriousness among the students about the relevance and necessity of such a course in the management of certain crisis laden situations the attendance shall have to be made compulsory.
- E.) A certificate shall be issued to only those students who have attended 75 % or more of the lectures delivered in the course. On the basis of the percentage attendance grades shall be allotted to the students. The grade structure shall be as given below:-

Grade	Percentage attendance
A	> 90.1%
B	85.1 – 90%
C	80.1 - 85%
D	75 – 80%

Grade scored by a student shall be mentioned on the certificate along with the percentage attendance.

In addition to semester 1st & 2nd of academic session 2021-22 this course shall be taught to the students as per the following schedule.

- During the academic session 2021-22 the course shall be introduced for the students of semester 5th of Science and BCA programmes, and Semester 6th of Arts and Commerce students (the streams can be changed as per the feasibility of timetable). Further that the course shall also be taught to the PG students of 3rd or 4th semester of the session 2021-22.
- During the Academic session 2022-23 the students of U.G semester 1st, 2nd, 5th, and 6th shall be taught this course besides to those of semester 1st of PG programmes.

Members who attended the meeting

1. Dr. Avinash Kumar Gupta- Convenor, Academic Affairs Committee *Dr. Avinash Kumar Gupta*
2. Dr. Ritu Mangotra HoD, Department of English *Dr. Ritu Mangotra*
3. Dr. Priyadarshani Sharma HoD Environmental Sciences *Dr. Priyadarshani Sharma*
4. Prof. Shayat Kumar Dhar Coordinator, IQAC. *Dr. Shayat Kumar Dhar*
30/11/2021

Submitted to the Principal and thereafter approval from academic council by circulation.

Approved
SPS
30/11/2021



GOVT. COLLEGE FOR WOMEN, PARADE GROUND, JAMMU-180001, J&K.
(Erstwhile Maharani Mahila College)

Autonomous College affiliated to the University of Jammu
College for Potential for Excellence, 2016
(Estd. 1944)

Dr. S.P Sarswat
Principal

E-mail: principalgcwparade@gmail.com
Tel.(O): 0191-2544305
(M): 94191-03074

No:-WCP/ColI/2021/298


Dated: 29-11-2021

Order

As a follow up to the suggestions agreed to, during the proceedings of the 9th academic council meeting of the College held on 17Nov,2021, a committee of following members is constituted to work out the details of implementation of Disaster management course or disaster management awareness exercise for the students of UG and PG programmes of the academic session 2021-22.

- | | |
|-----------------------------|--------------------------------------|
| 1. Dr. Avinash Kumar Gupta- | Convenor, Academic Affairs Committee |
| 2. Dr. Ritu Mangotra | HoD, Department of English |
| 3. Dr. Priyadarshani Sharma | HoD Environmental Sciences |
| 4. Prof. Shayat Kumar Dhar | Coordinator, IQAC. |

The committee is required to submit the details by 30/11/2021 to Coordinator IQAC, as the same are to be circulated among the members of the academic council for approval.


29/11/2021
Principal



GOVT. COLLEGE FOR WOMEN, PARADE GROUND, JAMMU-180001, J&K.

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Dr. S.P Sarswat
Principal

E-mail: principalgcwparade@gmail.com

Tel.(O): 0191-2544305

(M): 94191-03074

No:-WCP/Coll./2022 27

Dated:- 04/1/2022

Circular

It is notified for the information of all students of semester 1st (Academic session 2021-22) and semester 5th (academic sessions 2021-22 and 2022-23) that they shall have to undertake a Non-evaluative compulsory course on Disaster management as a requirement for the completion of UG programmes offered to them. They shall take up this course as per the timetable allotted. Furthermore, this course shall be a compulsory course for the students of all UG programmes offered by the College from the academic session 2021-22 and onwards.


The students of academic sessions prior to 2021-22, who could not, continued their UG programmes because of one or the other reason shall have to take up the course in the semester they seek admission for completion of the academic programme.

The students of semesters 1st and 3rd/4th (academic session 2021-22) of PG programmes offered by the college shall also have to take up the course as per the allotted timetable. Only those students who have not taken up this course in UG programmes, and get admitted in the PG programmes offered by the College from the academic session 2022-23 onwards shall have to enrol themselves for the course in the semester 1st of the postgraduate programme offered to them.

- *A certificate shall be issued to only those students who have attended 75% or more of the lectures delivered for the course. On the basis of the percentage attendance grades shall be allotted to the students. The grade structure shall be as given below:-*

Grade	Percentage attendance
A	> 90.1%
B	85.1 – 90%
C	80.1 - 85%
D	75 – 80%

Grade scored by a student shall be mentioned on the certificate along with the Percentage attendance.


04/01/2022
Principal



R K Ganjoo

Sat, Dec
11, 4:21
PM

to me

Attached is the minutes of the meeting with necessary corrections. The corrections in RED are to be incorporated and the ones in YELLOW are to be deleted. The corrections are to make the minutes robust in nature.

The minutes, with necessary corrections, are approved by the undersigned.

R.K. Ganjoo

Member of the AC



R K Ganjoo

Sat, Dec
11, 9:59
PM

to me

Thank you for incorporating the corrections. Regards

On Sat, Dec 11, 2021 at 5:24 PM IQAC <iqacgcwparade2018@gmail.com> wrote:

Sir,

find attached the document with the changes suggested.

Department of Economics



GOVERNMENT COLLEGE FOR WOMEN PARADE
(An Autonomous College)

NAAC ACCREDITED 'A'

AFFILIATED TO JAMMU UNIVERSITY (JNU)
College with Potential for Excellence (CPE)

Learning Outcomes Based Curriculum Of B.A Semester ^{4th}

ECONOMICS

Government College for Women Parade Ground Jammu.

B.A Semester: - IV

Title: Data Analysis

Skill Enhancement Course (SEC) Credit :04 (2+2)

Syllabus of Economics as a subject for B.A. Choice Based Credit System (CBCS)

Course Code: UECTSE: 401

Duration of Examination: 3hrs

Total Marks: 100

Course Objective:-

The objective of this course is to enable the students in terms of knowledge to demonstrate their understanding of descriptive statistics by practical application of quantitative reasoning and data visualization

Learning Outcomes:-

This course will introduce the students to various aspects of data analysis such as collection and presentation of data, summarization and analysis of data. Students will also be trained to calculate and use few statistical tools.

1. *[Signature]*
2. *Shivan*

[Signature]

Course Outline

(Skill Theory Course)

UNIT I: Data Sources and Mode of Presentation

1. Primary Data: Meaning and various methods of collecting primary data.
2. Secondary Data: Sources of secondary data; precautions in the use of secondary data.
3. Diagrammatic Presentation: Meaning, Types and significance of diagrams; General rules for constructing a diagram.
4. Graphic Presentation: Meaning, Types and importance of graphs; General rules for constructing a graph

UNIT II: Data Analysis Techniques

1. Arithmetic Mean, Median and Mode: their merits and demerits
2. Range and Inter-quartile Range: Merits and demerits
3. Quartile Deviation and Mean Deviation: merits and demerits
4. Standard Deviation: merits and demerits

(Skill Practical Course)

UNIT III: Diagrammatic and Graphic Presentation (Practical Application)

1. Construction of one-dimensional diagrams
2. Construction of two-dimensional diagrams
3. Construction of a graph of one, two or more variables
4. Range Chart

UNIT IV: Practical Application of Data Analysis Techniques

1. Calculation of Arithmetic mean, Median and Mode in case of Individual series, Discrete series and Continuous series.
2. Calculation of Range and Interquartile Range in case of Individual series, Discrete series and Continuous series.
3. Calculation of Quartile Deviation and Mean Deviation in case of Individual series, Discrete series and Continuous series.
4. Calculation of Standard Deviation in case of Individual series, Discrete series and Continuous series.

1. 
2. 



Learning Process:-

Tutorials, Lectures, Regular Class Test, Group Discussions, Viva of the Project, Power Point Presentations etc.

Suggested Readings:-

1. S.P. Gupta: Statistical Methods, Sultan Chand and Sons , India.
2. S. C. Gupta: Fundamentals of Statistics, Himalaya Publishing House, Delhi.
3. Murray R. Spiegel: Theory and Problems of Statistics, Schaum's Publishing series.
4. P. H. Karmel and M. Polasek (1978), Applied Statistics for Economics, 4th edition, Pitman.
5. C.B. Gupta and Vijay Gupta (1995): An Introduction to Statistical Methods, Vikas Publishing House, New Delhi.

General Guidelines

Each Skill Course shall comprise of theory and practical components. these shall be referred as Skill Theory Course and Skill Practical Course. Each course Skill Theory and Skill Practical shall be of two credits

Assessment Methods

Internal assessment and External assessment as per CBCS rules

Skill Theory Course

4. Total credits = 2
5. Maximum marks 50 (Internal 10, External 40)
6. The course content (to be consolidated into two units of 4 subunits each

C) Internal assessment

3. The question paper would comprise of 5 five short answer type questions of 2 two mark each. Total marks of the assignment is 10 marks
4. No marks have been earmarked for attendance however the eligibility criterion for appearing in the end semester examination will be minimum 75 percent attendance.

D) External end semester Examination

Maximum Marks =40.

Question paper shall have three (A, B and C) sections: -

Section A

This section shall comprise of 4 questions of 2 marks each. 2 questions shall be set from the skill theory courses (Unit I and Unit II). All questions shall be compulsory.

Section B

This section shall comprise of 4 questions of 5 marks each. 2 questions shall be set from each unit from the skill theory courses (Unit I and Unit II). All questions shall be compulsory.

Section C



1. P. R.
2. Shekhar

This section shall comprise of 3 questions of 12 marks each. 1.5 questions shall be set from the skill theory courses (Unit I and Unit II). Students shall be asked to attempt only one question of 12 marks from this section.

Skill Practical course

Guidelines for design: -

Total credits = 2

Maximum marks 50 (Internal 25, External 25)

B) Internal assessment (25 Marks)

- III. 5 marks have been earmarked for attendance,
- IV. Practical Project file, charts, PPT -20 marks

C) External end semester Examination 25 Marks.

- III. Practical Project file chart PPT -15marks
 - IV. Viva -voice - 10 marks
-

1. 
2. Shivam





Learning Outcomes Based Curriculum Of B.A Semester 3rd

ECONOMICS

Government College for Women Parade Ground Jammu.

Semester:- III

Title: Financial Economics

Skill Enhancement Course(SEC) Credit :04 (2+2)

Syllabus of Economics as a subject for B.A. Choice Based Credit System (CBCS)

Course Code: UECTSE: 301

Duration of Examination: 3hrs

Total Marks : 100

Course Objective

This course on Financial Economics will provide the students a thorough understanding and knowledge of the financial system in the economy and its implications on supply and demand side aspects of the capital. It will equip the students with knowledge on the concepts, theory and policy aspects of financial economics. Moreover, the project work will enable the students to probe deeper into the financial markets which is very relevant from the skill enhancement point of view. This course will provide the foundation of knowledge needed for future finance courses.

Teaching Learning Outcomes:

This course introduces students to the economics of finance. It implies supply and demand aspect of the capital. The purpose of the paper is to impart the knowledge and train the learners to the tit-bits of the financial aspects of the economy and to keep pace with the changing global financial and investment scenario.

1. 
2. 



Course Outline

Skill Theory Course

UNIT I: Basics of Financial Economics

1. Financial Economics: Meaning, nature, scope and importance;
2. Market equilibrium: Supply and Demand Side aspects of capital;
3. Financial System: Meaning and constituents of Financial System
4. Financial Transactions: Meaning and Characteristics

UNIT II: Financial Institutions

1. Financial Institutions: Meaning and Role
2. Commercial Banks: Meaning and Functions
3. Cooperative Banks: Meaning, Types and Functions
4. Regional Rural banks: Meaning and Functions

Skill Practical Course

UNIT III: Money Market

1. Money market : meaning functions and importance
2. Indian money market: meaning and structure and constituents
3. Underdeveloped nature of Indian money market
4. Measures to improve Indian money market.

Unit IV: Capital Market

1. Capital market: meaning functions and importance
2. Structure of Indian Capital Market
3. Comparison of money market and capital market.
4. SEBI- meaning and Role.

Suggested Readings

- V.A. Avadhani; "Financial Economics, Theory and Practice", Himalaya Publications.
Zvi Bodie, Robert C. Merton, David c. Cleeton, "Financial Economics" Pearson Education. V.A. Avadhani, "Financial Economics Theory and Practice"
Nishant K. Shukla; "Financial Economics Text & Cases"
Cyber Tech. Desai .Vasant, "Indian Financial System",
Himalayan Publishing House PaulRR, "Money and
Financial Institutions", Kalyani Publishers

1. ✓
2. ✓
3. ✓
4. ✓
Avadhani

✓

Learning Process

Tutorials, Lectures, Regular Class tests, Group Discussions, Viva of the Project, power Point Presentations etc.

General Guidelines

Each Skill Course shall comprise of theory and practical components. these shall be referred as Skill Theory Course and Skill Practical Course. Each course Skill Theory and Skill Practical shall be of two credits

Assessment Methods

Internal assessment and External assessment as per CBCS rules

Skill Theory Course

1. Total credits = 2
2. Maximum marks 50 (Internal 10, External 40)
3. The course content (to be consolidated into two units of 4 subunits each)

A) Internal assessment

1. The question paper would comprise of 5 five short answer type questions of 2 two mark each. Total marks of the assignment is 10 marks
2. No marks have been earmarked for attendance however the eligibility criterion for appearing in the end semester examination will be minimum 75 percent attendance.

B) External end semester Examination

Maximum Marks =40.

Question paper shall have three (A, B and C) sections: -

Section A

This section shall comprise of 4 questions of 2 marks each. 2 questions shall be set from the skill theory courses (Unit I and Unit II). All questions shall be compulsory.

Section B

This section shall comprise of 4 questions of 5 marks each. 2 questions shall be set from each unit from the skill theory courses (Unit I and Unit II). All questions shall be compulsory.

Section C

This section shall comprise of 3 questions of 12 marks each. 1.5 questions shall be set from the skill theory courses (Unit I and Unit II). Students shall be asked to attempt only one question of 12 marks from this section.

1. ✓
2. ✓

✓

Skill Practical course

Guidelines for design: -

Total credits = 2

Maximum marks 50 (Internal 25, External 25)

- A) **Internal assessment (25 Marks)**
- I. 5 marks have been earmarked for attendance,
 - II. Practical Project file, charts, PPT -20 marks
- B) **External end semester Examination 25 Marks.**
- I. Practical Project file chart PPT -15marks
 - II. Viva -voice – 10 marks
-

1.
2. *Arshian*

Department of Philosophy

GCW Parade *Ground*

Syllabus Revision: 2021

Sem 3: Ethics (UPLTC-301)

Syllabus Change: 10%

The topic History of Ethics is removed from Unit 1 as this topic is too vague to be taught as a single topic.

Sem 4: Western Philosophy (UPLTC-401)

Syllabus Change: 10%

Topic 1.1 is changed from 'Greek Philosophy- a brief introduction' to 'Pre Socratic Philosophy – a brief introduction.' This is done because Greek Philosophy includes Socrates, Plato and Aristotle which are already there in Unit 1. Pre Socratic philosophy, on the other hand, means explicitly those philosophers who existed before Socrates and who were instrumental in giving foundations to the more famous Greek philosophical trio.

Sem3 (Skill): Deductive Logic (UPLTS-401)

The syllabus for Skill Enhancement Course is revised so as to split the course into two modules: two units containing Theory part and two units containing Problem Solving.

Sem4 (Skill): Inductive Logic (UPLTS-401)

The syllabus for Skill Enhancement Course is revised so as to split the course into two modules: two units containing Theory and two units containing Problem Solving.

The syllabus for rest of the course (Sem1,2,5&6) remains the same as before.

A
HOD
Philosophy

11/2021 BU Harvard

SKILL ENHANCEMENT COURSES (SECs)

Semester – III: DEDUCTIVE LOGIC (SEC)

Course Objectives: The course aims at providing students with the basic skills and knowhow of the discipline of Deductive Logic. They are expected to understand different logical concepts and are expected to learn their application in solving logical problems.

Unit 1: Introduction

- 1.1 Logic: Meaning and Nature
- 1.2 Aims of Study of Logic
- 1.3 Proposition: Simple and Compound
- 1.4 Argument: Premises and Conclusion

Unit 2: Deductive Reasoning: Core Concepts

- 2.1 Deductive Logic: Meaning and Nature
- 2.2 Inductive vs Deductive Reasoning
- 2.3 Three Laws of Thought
- 2.4 Law of Sufficient Reasoning

Unit 3: Problem Solving – I

- 3.1 Categorical Propositions: A,E,I,O
- 3.2 Terms: Subject and Predicate
- 3.3 Distribution of Terms

Unit 4: Problem Solving – II

- 4.1 Syllogism: Meaning and Kinds
- 4.2 Categorical Syllogism
- 4.3 Six Rules of Checking Validity of Syllogism

Dr. H. P. Philosophy

Course Learning Outcomes: The students will be able to demonstrate the knowledge of the basic skills and knowhow of the discipline of Deductive Logic. They will be able to understand different logical concepts and will be able to demonstrate the knowledge of the application of these concepts in solving logical problems.

Books recommended:

1. Text Book of Deductive Logic – Bholā Nath Roy
2. Deductive Logic – Balkrishna S. Pandit

3. Introduction to Logic – Irving M. Copi
4. Introduction to Logic and Scientific Methods – Cohen and Negel
5. Elements of Logic (Deductive & Inductive) and The Scientific Methods – Joseph STA Maria & Ramniranjan Jhunjhunwala

Semester – IV: INDUCTIVE LOGIC (SEC)

Course Objectives: The course aims at providing students with the basic skills and knowhow of the discipline of Inductive Logic. They are expected to acquaint themselves with the primary concepts and theories of Inductive logic and are expected to learn the application of these concepts in solving real life problems.

Unit 1: Introduction

- 1.1 Meaning of Induction
 - 1.2 Kinds of Induction
 - 1.3 Uses of Induction
 - 1.4 Inductive vs Deductive Reasoning
-

Unit 2: Inductive Reasoning: Core Concepts

- 2.1 Law of Uniformity of Nature
- 2.2 Law of Universal Causation
- 2.3 Hypothesis
- 2.4 Kinds of Hypothesis

Unit 3: Problem Solving – I

- 3.1 Informal Fallacies
- 3.2 Appeal to Emotion
- 3.3 Hasty Generalization

Unit 4: Problem Solving – II

- 4.1 Method of Agreement
- 4.2 Method of Difference
- 4.3 Method of Concomitant Variation



Course Learning Outcomes: The students will be able to demonstrate the knowledge of the basic skills and knowhow of the discipline of Inductive Logic. They will be able to understand the primary concepts and theories of Inductive logic and will be able to apply these concepts to solve real life problems.

Books recommended:

1. Text Book of Inductive Logic – Bhola Nath Roy
2. Inductive Logic – Dr. Balkrishna S. Pandit

3. Introduction to Logic – Irving M. Copi
4. Introduction to Logic and Scientific Methods – Cohen and Nagel
5. Elements of Logic (Deductive & Inductive) and Scientific Methods – Joseph STA Maria & Ramniranjan Jhunjhunwala





GOVERNMENT COLLEGE FOR WOMEN
PARADE GROUND JAMMU

[An Autonomous College vide letter no. F.22-1/2014(AC)]

DETAILED SYLLABUS
B.A Dogri 3rd Semester
(CBCS / Skill Enhancement Course (SEC) in DOGRI)

Course Code :- UDGTS 301

**Title :- Dogri Mass
Communication**

Maximum Marks :- 100

Skill Theory :- 10 (Int.) + 40 (Ext.)

Credits :- 2+2= 4

Skill Practical :- 25 (Int.) + 25 (Ext.)

Duration :- 3 hrs

Examination to be held in the years May 2022, 2023 & 2024.

उद्देश्य :- इस कोर्स का मुख्य उद्देश्य विद्यार्थियों की संचार के जनसंचार के बारे में तफसीली जानकारी देने के कर्तव्य - कर्तव्य अभ्यास भी करवाना है ताकि जो ओहू इक सफल संवाददाता, वार्ताकार के जनसंचारक बनी सकन ।

युनिट 1 :- संचार

- i) संचार का अर्थ के परिभाषां
- ii) संचार के तत्व
- iii) संचार के प्रकार
- iv) संचार की उपयोगिता

युनिट 2 :- जनसंचार

- i) जनसंचार की उत्पत्ति के परिभाषां
- ii) जनसंचार की प्रायोगिक महत्ता
- iii) समाज के विकास के जनसंचार की भूमिका



GOVERNMENT COLLEGE FOR WOMEN
PARADE GROUND JAMMU

[An Autonomous College vide letter no. F.22-1/2014(AC)]

iv) जनसंचार के माध्यम (परम्परागत, छपाई के इलेक्ट्रॉनिक माध्यम)

युनिट 3 :- अभ्यास करो

- i) व्यक्तिगत संचार (डिबेट, भाषण, अपने विचार)
- ii) पारस्परिक/ आपसी संचार (मोबाइल, फेस टू फेस, मैसेज)
- iii) समूह संचार (सैमिनार, गोष्ठी, मनोरंजन)

युनिट 4 :- अभ्यास करो

- i) देशहित बारे सरकार के बख - बख योजनाएं सरबन्धी जनसंचार
- ii) वातावरण सरबन्धी, सेहत सरबन्धी, वनस्पतियों सरबन्धी जनसंचार
- iii) समाजिक, सांस्कृतिक के कुसै शख्सियत कन्नै मलाटी सरबन्धी जनसंचार

निर्धारित कताबां :-

- 1) मेरे जारां लेख - प्रो. गंगा शर्मा
- 2) इंटरनेट
- 3) पत्रकारिता एवं जनसंचार - प्रो. हरिमोहन
- 4) प्रसार शिक्षा एवं संचार - स्टार पब्लिकेशन आगरा



GOVERNMENT COLLEGE FOR WOMEN
PARADE GROUND JAMMU

[An Autonomous College vide letter no. F.22-1/2014(AC)]

DETAILED SYLLABUS
B.A Dogri 4th Semester
(CBCS / Skill Enhancement Course (SEC) in DOGRI)

Course Code :- UDGTS 401

Title :- Dogri Translation

Maximum Marks :- 100

Skill Theory :- 10 (Int.) + 40 (Ext.)

Credits :- 2 +2 = 4

Skill Practical :- 25 (Int.) + 25 (Ext.)

Duration :- 3 hrs

Examination to be held in the years May 2022, 2023 & 2024.

उद्देश्य :- इस कोर्स का मुख्य उद्देश्य विद्यार्थियों अनुवाद का विस्तृत अर्थ समझाने दे कन्नै - कन्नै अनुवाद की उपयोगिता बारे ज्ञान करोआना ऐ तां जे उंदी इस विशे च रुचि पैदा होई सकै । इस लेई उर्नेगी हिंदी थमां डोगरी , डोगरी थमां हिंदी, अंग्रेज़ी थमां डोगरी ते डोगरी थमां अंग्रेज़ी च विद्यार्थियों दी रुचि गी दिखदे होई अभ्यास बी करोआए जाडन तां जे ओहू इक सफल अनुवादक बनी सकन ।

युनिट 1 :- अनुवाद

- i) अनुवाद का अर्थ ते परिभाशां
- ii) अनुवाद कला विज्ञान जां शिल्प
- iii) अनुवाद की प्रक्रिया
- iv) अनुवाद की उपयोगिता

युनिट 2 :- अनुवाद

- i) अनुवाद के भेद जां प्रकार
- ii) अनुवाद के सिद्धांत

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GOVERNMENT COLLEGE FOR WOMEN
PARADE GROUND JAMMU

[An Autonomous College vide letter no. F.22-1/2014(AC)]

- iii) अनुवाद दे खेतर
- iv) आदर्श अनुवादक दे गुण

युनिट 3 :- अभ्यास करो

- i) शब्दानुवाद, भावानुवाद, सारानुवाद ते प्रकृति दे अधार पर अनुवाद दा अभ्यास
- ii) हिंदी थमां डोगरी च अनुवाद
- iii) डोगरी थमां हिंदी च अनुवाद

युनिट 4 :- अभ्यास करो

- i) विज्ञापन, विचार ते प्रचार (स्लोगन, पैंफलेट), वाक्य दे अनुवाद दा अभ्यास
- ii) अंग्रेज़ी थमां डोगरी च अनुवाद
- iii) डोगरी थमां अंग्रेज़ी च अनुवाद

निर्धारित कताबां :-

- 1) डोगरी शोध - 2019 (डोगरी डिपार्टमेंट जम्मू यूनिवर्सिटी)
- 2) मेरे जारां लेख - गंगा शर्मा
- 3) इंटरनेट

Syllabus of B.A. Hindi CBCS/Skill Enhancement Course (कौशल वृद्धि)

Semester – 3rd.

Course Code : UHITS-303

Total Marks – 100

Credit – 2+2 = 04

Skill Theory: 10(Int.)+40 (Ext.)

Duration – 3 Hrs.

Skill Practical: 25(Int.)+25 (Ext.)

Examination to be held in Dec. 2021, 2022,2023

उद्देश्य –

इस पाठ्यक्रम का मुख्य उद्देश्य विद्यार्थियों को भाषा के विभिन्न पहलुओं और हिन्दी भाषा शिक्षण के विभिन्न भाषायी कौशलों से अवगत कराने के साथ-साथ हिन्दी भाषा शिक्षण में आने वाली मुख्य समस्याओं के साथ भी अवगत कराना है।

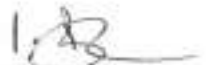
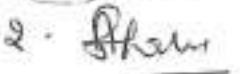
Title : भाषा शिक्षण

इकाई – एक : भाषा : अर्थ एवं स्वरूप

1. भाषा : अर्थ एवं विशेषताएँ
2. भाषा के विविध रूप – मातृभाषा, राष्ट्रभाषा, संचार भाषा, माध्यम भाषा, एवं सम्पर्क भाषा
3. हिन्दी भाषा : उद्भव एवं विकास
4. भाषायी कौशल – श्रवण कौशल, पठन कौशल, भाषण कौशल, लेखन कौशल।

इकाई – दो : हिन्दी भाषा शिक्षण

1. हिन्दी भाषा शिक्षण का महत्व
2. हिन्दी भाषा शिक्षण की समस्याएँ

1. 
2. 

3. हिन्दी शिक्षण के गुण
4. हिन्दी शिक्षण के व्यावहारपरक उद्देश्य और उनका महत्व

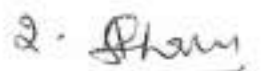
इकाई – तीन : अभ्यास पक्ष

1. भाषा के प्रकार (मौखिक, लिखित, मूक, भाषण, व्यक्तिगत अभिव्यक्ति)
2. भाषा की भूमिका के रूप (मातृभाषा, राष्ट्रभाषा, संचार भाषा, माध्यम भाषा और राष्ट्र भाषा के रूप)
3. हिन्दी भाषा के उदभव और विकास चरण (प्राचीन काल, मध्य काल, आधुनिक काल)
4. भाषायी कौशलों का विकास (श्रवण कौशल का महत्व, उद्देश्य, पठन कौशल के प्रकार – सस्वर अथवा मौन, भाषण कौशल की शिक्षण विधियां, लेखन कौशल की विकास विधियां)

इकाई – चार : अभ्यास पक्ष

1. हिन्दी भाषा शिक्षण के विभिन्न पक्षों का मूल्यांकन (ज्ञानात्मक, भावात्मक, क्रियात्मक)
2. हिन्दी भाषा शिक्षण की विधियां व समस्यायें (निदानात्मक परीक्षण, अशुद्धि विश्लेषण तथा उपचारात्मक शिक्षण व हिन्दी भाषा शिक्षण में आने वाली विभिन्न समस्यायें)
3. हिन्दी शिक्षक के विभिन्न गुण तथा व्यावहारपरक उद्देश्य

1. 

2. 

Syllabus of B.A. Hindi CBCS/Skill Enhancement Course (कौशल वृद्धि)

Semester – 4th.

Course Code : UHITS-403

कुल अंक – 100

Credit – 2+2 = 04

Skill Theory: 10(Int.)+40 (Ext.)

Duration – 3 Hrs.

Skill Practical: 25(Int.)+25 (Ext.)

Examination to be held in May ~~2022~~, 2022,2023 . २०२५

उद्देश्य –

इस पाठ्यक्रम का मुख्य उद्देश्य विद्यार्थियों को अनुवाद का विस्तृत अर्थ बताने के साथ-साथ उन्हें अनुवाद के विविध क्षेत्रों से अवगत भी कराना है तथा उन्हें अनुवाद के क्षेत्र में आने वाली समस्याओं से भी परिचित कराना है।

Title : अनुवाद विज्ञान

- इकाई – एक :
1. अनुवाद : अर्थ एवं परिभाषा।
 2. अनुवाद : विशेषताएं
 3. अनुवाद के भेद प्रकार
 4. अनुवाद के विविध क्षेत्र

- इकाई – दो :
1. अनुवाद की प्रक्रिया
 2. अनुवाद का महत्व
 3. आदर्श अनुवादक के गुण
 4. अनुवाद की समस्याएँ

1. 
2. 

इकाई – तीन : अभ्यास पक्ष

1. शब्दानुवाद, भावानुवाद, सारानुवाद तथा प्रकृति के आधार पर अनुवाद का अभ्यास
2. हिन्दी से अन्य भाषा में अनुवाद
3. अन्य भाषा से हिन्दी में अनुवाद
4. पारिभाषिक शब्द निर्माण के सिद्धान्त

इकाई – चार : अभ्यास पक्ष

1. विज्ञापन और संचार माध्यम में अनुवाद, विचार और प्रचार (स्लोगन पैंफलेट) वाक्य और अनुवाद का अभ्यास
2. अंग्रेजी से हिन्दी में अनुवाद
3. हिन्दी से अंग्रेजी में अनुवाद

1. 
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Department of Commerce



GOVERNMENT COLLEGE FOR WOMEN PARADE
(An Autonomous College) NAAC accredited 'A'

B.COM. THIRD SEMESTER (CBCS)

ENTREPRENEURSHIP FOR MSME (SEC-1)

C.No. : UBCTS307

Credit: 4

Time: 1Hour and 30 min.

Max. Marks = 100

Internal Assessment= 10 marks (Theory),
25 marks (Practical)

External Exam = 40 marks (Theory),
25 marks (Practical)

(Syllabus for examination to be held in 2021, 2022, 2023)

OBJECTIVE: To provide exposure and develop the skills of the students regarding entrepreneurial culture so that they can set and manage their own small units.

COURSE LEARNING OUTCOMES

After completing the course, the student shall be able to

CO1 understand the concept of entrepreneurship

CO2 know the role of EDPs and State in fostering entrepreneurial growth

CO3 develop the skills to understand the functioning of the Start ups in India

CO4 develop the skills for preparing the project reports

COURSE CONTENTS

SKILL THEORY COURSE

UNIT – I: INTRODUCTION TO ENTREPRENEUR, ENTREPRENEURSHIP AND MSME

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Entrepreneur-Meaning, characteristics of an entrepreneur, role , Entrepreneurial traits; Types of entrepreneurs; Entrepreneur, Intrapreneur Vs Professional Manager;

Entrepreneurship-Concept, factors responsible for emergence of entrepreneurship, relevance of entrepreneurship in career growth;

Women entrepreneurs-Importance and factors hindering their growth;

The concept, role and functions of business incubators, angel investors, venture capital and private equity funds; MSME – Conceptual frame work, definition of MSME, MSME policy statement - 1991; Latest policy measures of the Govt. of J & K for MSME s.

UNIT - II: ENTREPRENEURIAL BEHAVIOUR; AND DEVELOPMENT PROGRAMME; AND PROJECT & FINANCIAL ANALYSIS

Entrepreneurial behaviour- Definition, characteristics; Reasons for promoting entrepreneurs; Psychological theories-Maslow's and Mc Clelland's Motivation Theories and their applicability to understand entrepreneurial behaviour;

Entrepreneurial Development Programme: Definition and objective of EDPs, features of a sound EDP; Role of state in fostering entrepreneurial development: NSIC, SSIC & DICs;

Concept of project and classification of project; Project report; Project design and Project appraisal; Financial Analysis (Basic Concepts)- Ratio Analysis, Break Even Analysis, Profitability Analysis, Social Cost Benefit Analysis.

SKILL PRACTICAL COURSE

- 1) A case study on successful Start ups in India
- 2) A visit to an industrial area and submission of project report thereafter
- 3) Company presentation through PPTs pertaining to any company falling in fortune 500 list of Companies

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- 4) Viva voce (pertaining to the case study undertaken, project report submitted and company presentation)

BOOKS RECOMMENDED

1. Agarwal, P. and Kaur, A. Entrepreneurship and Small Business, S. Pub.Vikas & Co., New Delhi.
2. Desai, V. Dynamics of Entrepreneurial Development and Management, Himalaya Publishing House, Mumbai.
3. Gupta, C.B. Entrepreneurial Development in India, Sultan Chand Publishers, New Delhi.
4. Gupta, C.B. and Khanka, S.S. Entrepreneurship and Small Business Management, Sultan Chand Publishers, New Delhi.

Note: Latest edition of readings may be used

Note for Paper-setter

Each Skill Course shall comprise of theory and practical components. These shall be referred as Skill Theory course and Skill Practical course.

Each course (Skill Theory and Skill Practical) shall of two credits.

Skill theory course

1. Total credits = 2
2. Maximum marks 50 (Internal 10, External 40)

Evaluation strategy

A) Internal assessment

Internal assessment (10 Marks) as per the adopted procedure for other courses.

B) External end semester Examination

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1. Maximum Marks =40.
2. Question paper shall have three (A, B and C)sections :-

Section A shall comprise of 4 questions of 2 marks each.

- i) 2 questions shall be set from each unit.
- ii) All questions shall be compulsory.

Section B shall comprise of 4 questions of 5 marks each

- i) 2 questions shall be set from each unit.
- ii) All questions shall be compulsory.

Section C shall comprise of 3 questions of 12 marks each.

- i) 1.5 questions shall be set from each unit.
- ii) Students shall be asked to attempt only one question of 12 marks from this section.

Skill Practical course

1. Total credits = 2
2. Maximum marks 50 (Internal 25, External 25)

Evaluation strategy

A) Internal assessment

1. Case study to be conducted by the students- 15 marks
2. A visit to an industrial area and submission of project report thereafter- 05 marks
3. Weightage for attendance: 05 marks

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B) External End Semester Examination

1. Company presentation through PPTs- 15 marks
2. Viva voce- 10 marks

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GOVERNMENT COLLEGE FOR WOMEN, PARADE
(An Autonomous College) NAAC accredited 'A'

B.COM. FOURTH SEMESTER (CBCS)

CUSTOMER RELATIONSHIP MANAGEMENT (SEC-2)

C No:UBCTS418

Credit: 4

Time: 1 Hour and 30 min

Max. Marks = 100

Internal assessment = 10 Marks (Theory),
25 Marks (Practical)

External Exam. = 40 Marks (Theory),
25 Marks (Practical)

(Syllabus for examination to be held in 2022, 2023, 2024)

OBJECTIVE: To impart basic and practical knowledge to the learners on Customer Relationship Management.

COURSE LEARNING OUTCOMES

After completion of the course, the learners shall be able to

CO1: learn various new and latest concepts emerged in the area of CRM.

CO2: understand the concept of CRM as an integral part of business strategy.

CO3: study implementation of CRM Business Model in various sectors.

CO4: do customer survey using questionnaire and analyze data using statistical tools

COURSE CONTENT

SKILL THEORY COURSE

UNIT- I: EMERGING CONCEPTS OF CRM

CRM- Concept, Nature and Importance; Conceptual Framework of CRM; Changing nature of marketing and customer service; Dimensions of CRM; Evolution of CRM;

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The Value Pyramid: Meaning and Features; Customer Interaction Cycle: Meaning and Features; CRM Solution Mapping: Meaning and Features;

Goals of a CRM Strategy and Difficulties in implementation; CRM and technology; CRM and financial aspect of business;

E-CRM: Concept, Technologies and Advantages; Virtual Portals: Meaning and Types; Internet strategies facilitating CRM – including personalization, collaborative filtering, data mining, data warehousing and real-time profiling.

UNIT- II: CRM AS A BUSINESS STRATEGY

CRM as an integral business strategy; Effective CRM through Customer Knowledge Management; Impact of Business environment on CRM;

Customer Interaction Management: Concept and Importance; Call Centre Management: Concept and Importance; Customer Centricity: Concept and Importance;

Customer Life Cycle management: Concept and Importance; CRM business models: Concept, Importance and Types;

Consumer Research and Database Management; CRM and Marketing Strategy; CRM and Technology; CRM and Marketing Automation & Communication.

SKILL PRACTICAL COURSE

- 1) Case study to be conducted on any one of the areas in the Service Sector (e.g., Tourism and Hospitality Services, Airlines, Banking, Telecommunication Services, Internet Technology Services, E-Retailing, Manufacturing) covering the CRM Business model opted by the particular firm and strategies being implemented by that firm for further strengthening CRM system
- 2) Preparation of Customer Satisfaction and Customer Experience Questionnaires (with Demographic Questions, Dichotomous Questions and 5 Point Likert Scale Questions);
- 3) Creating Customer Database in Microsoft Excel Spread Sheets

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- 4) Customer Data Analysis using statistical techniques viz. Central Mean, Standard Deviation and Percentage

BOOKS RECOMMENDED

1. Customer Relationship Management 2nd Edition by Ed Peelen and Rob Beltman, Pearson Publication
2. Customer Relationship Management by Buttle, Francis, Elsevier Publishing
3. CRM at the Speed of Light - Essential Customer Strategies for the 21st Century by Paul Greenberg, Tata McGraw Hill
4. Customer Relationship Management by R. Baran, R. Galka, Cengage Learning
5. Customer Relationship Management: Emerging Concepts, Tools and Applications, 1st Edition by Jagdish N Sheth, Parvatiyar Atul, G Shainesh, Tata McGraw Hill.
6. Customer Relationship Management Getting it Right by Judith W .Kincaid , Pearson Education
7. Customer Relationship Management, A Step by Step Approach by H. Peeru Mohamed , A Sagadevan, , Vikas Publishing House
8. Customer Centricity –Focus on right customer for strategic advantage, by Peter Fader, Wharton Digital Press.

Note: Latest edition of readings may be used

NOTE FOR PAPER SETTER

Each Skill Course shall comprise of theory and practical components. These shall be referred as Skill Theory course and Skill Practical course.

Each course (Skill Theory and Skill Practical) shall of two credits.

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Skill theory course

1. Total credits = 2
2. Maximum marks 50 (Internal 10, External 40)

Evaluation strategy

A) Internal assessment

Internal assessment (10 Marks) as per the adopted procedure for other courses.

B) External end semester Examination

Maximum Marks =40.

Question paper shall have three (A, B and C) sections:

Section A shall comprise of 4 questions of 2 marks each.

- i) 2 questions shall be set from each unit.
- ii) All questions shall be compulsory.

Section B shall comprise of 4 questions of 5 marks each

- i) 2 questions shall be set from each unit.
- ii) All questions shall be compulsory.

Section C shall comprise of 3 questions of 12 marks each.

- i) 1.5 questions shall be set from each unit.
- ii) Students shall be asked to attempt only one question of 12 marks from this section.

Dr. Jyoti Sahni
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Dr. Jyoti Sahni
Dr. Jyoti Sahni

Dr.

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Skill Practical course

1. Total credits = 2
2. Maximum marks 50 (Internal 25, External 25)

Evaluation strategy

A) Internal assessment

1. Case study to be conducted by the students- 20 marks
2. Weightage for attendance: 05 marks

B) External End Semester Examination

Viva voce (pertaining to case study conducted, Customer Satisfaction and Customer Experience Questionnaire prepared, Customer Database created in Microsoft Excel Spread Sheet and Customer Data Analysis) - 25 marks

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SEMESTER-III

Course No.: UCHTS 301 (Skill Theory Course SEC-1) Theory: 30 Lectures
(For examinations to be held in Dec. 2021, 2022 & 2023)

Title: FUEL CHEMISTRY

Maximum Marks: 50

Credits: 02

External Examination: 40 marks

Time: 02 Hrs

Internal Assessment: 10 marks

Objectives: The course aims to provide students with a basic scientific and technical understanding of the production, behavior and handling of hydrocarbon fuels and lubricants, including emerging alternative & renewable fuels. This will enable them to be industry ready to contribute effectively in the field of petroleum chemistry and technology.

Learning outcomes:

After the completion of course, the students will be able to:

- Understand both conventional petroleum-based fuels, and alternative & renewable fuels, including gaseous fuels.
- Understand the chemistry that underpins petroleum fuel technology, will understand the refining processes used to produce fuels and lubricants and will know how differences in chemical composition affect properties of fuels and their usage in different applications.
- Understand the origin of petroleum, crude oil, composition, different refining processes employed industrially to obtain different fractions of petroleum. Further, course will cover various alternative and renewable fuels like Biofuels (Different generations), Gaseous Fuels (e.g. CNG, LNG, CBG, Hydrogen etc.).
- Understand the fuel product specifications, various test methods used to qualify different types of fuels as well characterization methods.

Section A: Coal (15 Lectures)

Review of energy sources (renewable and non-renewable). Classification of fuels and their calorific value.

Coal: Uses of coal (fuel and nonfuel) in various industries, its composition, carbonization of coal.

Coal gas, producer gas and water gas—composition and uses.

Fractionation of coal tar, uses of coal tar based chemicals, requisites of a good metallurgical coke,

Coal gasification (Hydro gasification and Catalytic gasification), Coal liquefaction and Solvent Refining.

(For examinations to be held in Dec. 2021, 2022 & 2023)

Section B: Petroleum and Lubricants (15 Lectures)

Composition of crude petroleum, Refining and different types of petroleum products and their applications.

Fractional Distillation (Principle and process), Cracking (Thermal and catalytic cracking), Reforming of Petroleum.

Non-petroleum fuels (LPG, CNG, LNG, bio-gas, fuels derived from biomass), fuel from waste, synthetic fuels (gaseous and liquids), clean fuels. Petrochemicals: Vinyl acetate, Propylene oxide, Isoprene, Butadiene, Toluene and its derivatives, Xylene.

Lubricants: Classification of lubricants, lubricating oils (conducting and non-conducting) Solid and semisolid lubricants, synthetic lubricants.

Properties of lubricants (viscosity index, cloud point, pour point) and their determination.

Reference Books:

- Stocchi, E. *Industrial Chemistry*, Vol-I, Ellis Horwood Ltd. UK (1990).
- Jain, P.C. & Jain, M. *Engineering Chemistry* Dhanpat Rai & Sons, Delhi.
- Sharma, B.K. & Gaur, H. *Industrial Chemistry*, Goel Publishing House, Meerut (1996).

NOTE FOR PAPER SETTERS

Internal Assessment (Total Marks: 10; Time Duration: 45 minutes)

The internal assessment test shall be held on completion of about 40% of the prescribed syllabus. The question paper will consist of eight short answer type questions of two marks each. The candidate will have to attempt any five questions (Total: 10 marks).

External End Semester Examination (Total Marks: 40; Time Duration: 2 hours) The question paper will have three sections.

Section A will consist of four short answer type questions (with explanation having 70 to 80 words) of two marks each, covering the entire syllabus selecting two questions from each section. The candidate shall have to attempt all the questions (Total: 08 marks).

Section B will consist of four medium answer type questions (with explanation having 250 to 300 words) of five marks each, covering the entire syllabus selecting two questions from each section. The candidate shall have to attempt all the questions (Total: 20 marks).

Section C will consist of three long answer type questions (with detailed explanation having 500 to 600 words) of twelve marks each, covering the entire syllabus (1.5 questions to be set from each section). The candidate shall have to attempt any one question (Total marks: 12).

SEMESTER-III

Course No.: UCHPS 301 (Skill Practical Course SEC-1)
(For examinations to be held in Dec. 2021, 2022 & 2023)

Title: Laboratory Course

Credits: 02

Time: 04 Hrs

Maximum Marks: 50

External Examination: 25 marks

Internal Assessment: 25 marks

Learning outcomes: The students will be trained in functional group analysis, purification of organic compounds and determining the melting and boiling points of organic compound. Further they will be skilled in determining the different parameters of lubricants and evaluating the energy density and relative cleanliness of commonly used fuels.

Section A

1. Determination of melting point of naphthalene and benzoic acid.
2. Determination of boiling point of ethanol and toluene.
3. Crystallization of benzoic acid from hot water and naphthalene from ethanol.
4. Sublimation of camphor and naphthalene.
5. Detection of functional groups (phenolic, carboxylic, carbonyl, esters, amines and nitro groups)

Section B

1. Evaluate energy density and relative cleanliness of several commonly used fuels.
2. Prepare lamp black in laboratory from camphor.
3. Fractional distillation of water ethanol mixture using water condenser
4. Determine viscosity index of given lubricant.
5. Determine cloud point of given lubricant.
6. Determine pour point of given lubricant.

Reference Books:

- Stocchi, E. *Industrial Chemistry*, Vol-I, Ellis Horwood Ltd. UK (1990).
- Jain, P.C. & Jain, M. *Engineering Chemistry* Dhanpat Rai & Sons, Delhi.
- Sharma, B.K. & Gaur, H. *Industrial Chemistry*, Goel Publishing House, Meerut (1996).
- Debasis Mohanty, *Fuel Chemistry*, Skill enhancement Course, Kalyani Publishers

(For examinations to be held in Dec. 2021, 2022 & 2023)

DISTRIBUTION OF MARKS

A.	Daily evaluation of practical records/vivavoce/attendance, etc.	Attendance: 05 marks
		Practical Test: 08 marks
		Day to day performance: 12 marks
B.	External Examination (100% syllabus)	Examination: 20 marks (Two practicals of 10 marks each)
		Viva-voce: 05 marks

Course No.: UCHTS 401 (Skill Theory Course SEC-2) Theory: 30 Lectures
(For examinations to be held in May 2022, 2023 & 2024)

Title: PESTICIDE CHEMISTRY

Maximum Marks: 50

Course No.: UCHTS 401

Credits: 02

External Examination: 40 marks

Time: 02 Hrs

Internal Assessment: 10 marks

Objectives: Keeping the importance of pesticides in mind this course is aimed to introduce students to synthesis and application of pesticides.

Learning outcomes:

After the completion of course, the students will be able to:

- Understand the basic role of pesticide in everyday life, various ingredients and their role in controlling the pest.
- Educate the farmers/gardeners to choose the appropriate pesticides for their crop production.

Section A: Introduction to Pesticides (15 Lectures)

General introduction to pesticides.

Natural and synthetic pesticides.

Benefits and adverse effects of both natural and synthetic pesticides.

Changing concepts of pesticides, structure activity relationship.

Section A: Synthesis of Pesticides (15 Lectures)

Synthesis, technical manufacture and uses of Organochlorines (DDT, Gammexene).

Synthesis, technical manufacture and uses of Organophosphates (Malathion, Parathion).

Synthesis, technical manufacture and uses of Carbamates (Carbofuran and carbaryl).

Synthesis, technical manufacture and uses of Quinones (Chloranil) and Anilides (Alachlor and Butachlor).

Reference Book:

- Cremllyn, R. *Pesticides. Preparation and Modes of Action*, John Wiley & Sons, New York, 1978.
- Bost, G. A. and Ruthven, A. D.; *Pesticides-Developments, Impacts & Control*.
- Rakshit, A.; De, R. N.; *Manures, Fertilizers & Pesticides: Theory & Applications*.

(For examinations to be held in May 2022, 2023 & 2024)

NOTE FOR PAPER SETTERS

Internal Assessment (Total Marks: 10; Time Duration: 45 minutes)

The internal assessment test shall be held on completion of about 40% of the prescribed syllabus. The question paper will consist of eight short answer type questions of two marks each. The candidate will have to attempt any five questions (Total: 10 marks).

External End Semester Examination (Total Marks: 40; Time Duration: 2 hours) The question paper will have three sections.

Section A will consist of four short answer type questions (with explanation having 70 to 80 words) of two marks each, covering the entire syllabus selecting two questions from each section. The candidate shall have to attempt all the questions (Total: 08 marks).

Section B will consist of four medium answer type questions (with explanation having 250 to 300 words) of five marks each, covering the entire syllabus selecting two questions from each section. The candidate shall have to attempt all the questions (Total: 20 marks).

Section C will consist of three long answer type questions (with detailed explanation having 500 to 600 words) of twelve marks each, covering the entire syllabus (1.5 questions to be set from each section). The candidate shall have to attempt any one question (Total marks: 12).

SEMESTER-IV

Course No.: UCHPS 401 (Skill Practical Course SEC-2)
(For examinations to be held in May 2022, 2023 & 2024)

Title: Laboratory Course	Maximum Marks: 50
Credits: 02	External Examination: 25 marks
Time: 04 Hrs	Internal Assessment: 25 marks

Learning outcomes: The students will be trained in finding the various parameters of the pesticides as per BIS specification as well as they will be given useful information about pesticide labeling indicating the toxicity of the product.

Section A

1. Calculate the acidity of a given sample of a pesticide formulation as per BIS specification.
2. Calculate the alkalinity of a given sample of a pesticide formulation as per BIS specification.
3. Check water solubility of pesticides.
4. Qualitative analysis of following radical: carbonate, nitrite, sulphide, sulphite, nitrate, sulphate, phosphate and borate.
5. Useful information on label of packaging regarding: Toxicity, LD50, Side effects and Antidotes

Section B

1. Preparation of pesticides in the laboratory.
2. Preparation of insecticides in the laboratory.
3. Preparation of herbicides in the laboratory.
4. Preparation of organic pesticides in laboratory which are active against nematodes.
5. Preparation of organic pesticides in laboratory for fungal diseases.
6. List of pesticides active against ants, caterpillars, mealy bugs, aphids, planthoppers, grasshoppers, mites, thrips and whitefly.

Reference Books:

- Cremllyn, R.; *Pesticides. Preparation and Modes of Action*, John Wiley & Sons, New York, 1978.
- Jackson, P.; *Organic Pest Control, The Practical Guide*.
- Mandava, N. B.; *Handbook of Natural Pesticides, Methods, Theory, Practice and Detection, Volume 1*.

(For examinations to be held in May 2022, 2023 & 2024)

DISTRIBUTION OF MARKS

A.	Daily evaluation of practical records/viva voce/attendance, etc.	Attendance: 05 marks
		Practical Test: 08 marks
		Day to day performance: 12 marks
B.	External Examination (100% syllabus)	Examination: 20 marks (Two practicals of 10 marks each)
		Viva-voce: 05 marks



GOVERNMENT COLLEGE FOR WOMEN
PARADE GROUND JAMMU
(An Autonomous College with CPE status by UGC)

For Examinations to be held in 2021, 2022, and 2023
Skill Enhancement Course

Syllabus : Semester-III (CBCS) BA/BSc./BCA Mathematics

TITLE: Logic, Sets & Relation

TIME DURATION:

Sessional Exam: 40min

External Exam: 2hr

Code:UMATS-301

CREDITS: 02

TOTAL MARKS: 50

Sessional Assignment: 10

External Exam: 40

OBJECTIVES: The main objective of this course is to make all students be able to define set, inclusion, element, object, and roster notation. Identify the elements of a given set. Describe conventions used to list sets. List the elements of a set using roster notation. List the elements of a set by describing the set and the rules that its elements follows. Determine whether a relation is a function and identify the domain and range of a function.

Learning Outcomes: At the end of this course, student should be able to

- Define sets using the list or set builder notation and use the representation of a given set to distinguish membership properties of elements, subsets and perform its operations.
- Relate symbolic laws of logic to natural languages, and determine the truth value of unquantified sentences using logical rules.
- Analyze and determine the truth value of quantified sentences, given its universal set by constructing truth value table or by applying the concept of solution sets.
- Describe memberships of sets, including the empty set, using proper notation, and decide whether given items are members and determine the cardinality of a given set.
- Describe the relations between sets regarding membership, equality, subset, and proper subset, using proper notation.
- Perform the operations of union, intersection, complement, and difference on sets using proper notation.
- Be able to draw and interpret Venn diagrams of set relations and operations and use Venn diagrams to solve problems.
- Recognize when set theory is applicable to real-life situations, solve real-life problems, and communicate real-life problems and solutions to others.
- Define and provide an example of a relation
- Describe and provide examples of a function
- Compare and contrast a relation and a function

o Syllabus

Unit 1: Logic & Sets

Subunit 1: Logic

Introduction, Logic, Statement, Truth value of a Sentence, Compound sentence, Negation of a Sentence, Tautology, Contradiction, Converse, Inverse, Contrapositive. Theorems, examples and exercises based on these concepts.

Subunit 2: Sets

Introduction, Set, Empty set, Subset, Union of two sets, Intersection of two sets, Difference of two sets, Universal set, Complement of a set, Equal sets, Power set, Venn diagram. Theorems, examples and exercises based on these concepts.

Unit 2: Relations and Functions

Subunit 1: Relations

Cartesian product, Examples, theorems, Relation, Domain and range of a relation, Composition of relations, Inverse of relation, types of relation.

Subunit 2: Functions

Functions, Definition, types of function, Composition function, Properties of composition, Theorems, examples and exercises based on these concepts.

Books Recommended:

1. R. P. Grimaldi, Discrete Mathematics and Combinatorial Mathematics, Pearson education, 1988.
2. P. R. Halmos, Naïve set Theory, Springer, 1974.
3. E. Kamke, Theory of Sets, Dover Publishers, 1950.

Bhams
H Sharma

Bhish
(HOD)

Purposed Project for 3rd Semseter for the Course: Logic, Sets & Relations:

Minor Project:

1. How PN-Junction Diodes can be used in OR, AND, NOT-Gate?

Or

2. How PN-Junction Diodes can be used in NOT, NAND, NOR-Gate?

Or

3. Draw working model for relation & Functions.

Major Project:

1. Half Wave Rectifier.

Or

2. Full wave Rectifier.

Or

3. To design and stimulate the Logic gate Circuit.

Or

4. Working model on types of functions injective, surjective, bijective.

J. Shome
J. Shome

Bhik
(HOD)

Books Recommended:

1. Vector calculus by Shanti Narayan & P. K. Mittal, S. Chand Publications.
2. G. B. Thomas & R. L. Finney, Calculus, 9th edition, Pearson Education, Delhi, 2005.
3. P. C. Matthew's Vector Calculus, Springer Verlag London Limited 1998.
4. H. Anton, I Bivens & S. Davis, Calculus, John Wiley & Sons, Asia Private Limited, 2002.

Instructions for paper Setters and candidates

For External Examination

The question paper for semester end examination will be of 40 marks and consist of three sections:

Section A (08 marks);

Four short answer type questions of 2 marks each, two questions from each unit. All questions will be compulsory.

Section B (20 marks);

Four medium answer type questions of 5 marks each, two questions from each unit. All questions will be compulsory.

Section C (12 marks);

Three long answer type questions of 12 marks each, 1.5 questions from each unit. The students will have to attempt only one question of 12 marks from this section. .

For Internal Examination

The internal assessment will be of ten marks in which no marks have been earmarked for attendance, however the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

The test will comprise of eight questions of 2 marks each from 50% of the syllabus covered and candidate will have to attempt any five questions.

Shanti Narayan
P. K. Mittal

Shanti Narayan
(HOD)



GOVERNMENT COLLEGE FOR WOMEN

PARADE GROUND JAMMU

(An Autonomous College with CPE status by UGC)

For Examinations to be held in 2021, 2022, 2023

Syllabus : Semester-IV (CBCS) BA/BSc./BCA Mathematics

TITLE: Vector Calculus

TIME DURATION:

Sessional Exam: 40min

External Exam: 2hr

Code: UMATS-401

CREDITS: 02

TOTAL MARKS: 50

Sessional Assignment: 10

External Exam: 40

OBJECTIVES: The main objective of teaching this course is to use the dot product to determine: the projection of a vector in another direction, the angle between two vectors and to do an engineering estimate of these quantities, also to find the cross product of two vectors.

Learning Outcomes: After the completion of the course, Students will be able to

- Write an expression for the derivative of a vector-valued function. Find the tangent vector at a point for a given position vector.
- Find the unit tangent vector at a point for a given position vector and explain its significance.
- Calculate the definite integral of a vector-valued function.
- Understand the relationship between the derivative and the definite integral as expressed in both parts of the Fundamental Theorem of Calculus.

Syllabus

Unit 1:

Subunit 1: Dot product, Cross product, scalar triple product.

Subunit 2: Integration of vectors, definite integral. Indefinite integral, oriented curve, smooth curve, Work done and circulation.

Unit 2:

Subunit 1: Scalar function, Vector function, Derivative of a Vector function in term of its components, Constant Vector, articles and examples.

Subunit 2: Scalar and vector point function. Divergence of a vector point function and curl of a vector point function.

J. Sharma
J. Sharma

B. B. B.
(HOD)

Purposed Project for 4th Semseter for the Course: Vector Calculus:

Minor Project:

1. To find the weight of a given body using the parallelogram law of vectors with working model. Or
2. Position vector in 3d Space. Or
3. Vectors Math art integrated Project.

Major Project:

1. Wheat Stone Bridge. Or
2. Slide Wire Bridge. Or
3. Magnetic Field due to solenoid. Or
4. Magnetic field due to infinite long straight wire carrying current.

H. Shams
H. Shams

Ali
(1701)

Instructions for paper Setters and candidates

For External Examination

The question paper for semester end examination will be of 40 marks and consist of three sections:

Section A (08 marks);

Four short answer type questions of 2 marks each, two questions from each unit. All questions will be compulsory.

Section B (20 marks);

Four medium answer type questions of 5 marks each, two questions from each unit. All questions will be compulsory.

Section C (12 marks);

Three long answer type questions of 12 marks each, 1.5 questions from each unit. The students will have to attempt only one question of 12 marks from this section.

For Internal Examination

The internal assessment will be of ten marks in which no marks have been earmarked for attendance, however the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

The test will comprise of eight questions of 2 marks each from 50% of the syllabus covered and candidate will have to attempt any five questions.

Sharma
Sharma

Blit
(HOD)



**SKILL BASED COURSE SEMESTER 3RD
BAKERY SCIENCE**

Syllabus for the Examinations to be held from 2021, 2022 and 2023

Course Code: UHSTS 302 (A)
Theory

Max. Marks-50
External Assessment: 40
Internal Assessment: 10
Credits : 02

OBJECTIVES:

- To learn the basic concept of Bakery and its equipments.
- To develop skill in the art of Bakery.

LEARNING OUTCOMES

The course will help the students

- To learn the preparation of various Bakery items.
- To learn the use and handling of Bakery equipment.

BASIC CONCEPTS OF BAKERY

UNIT I:

Ingredients & processes used for preparation of

- Cream cakes and sponge cakes
- Short crust pastry
- Breads, buns and pizza base
- Cookies and biscuits

UNIT II:

- Product characteristics
- Common bakery faults and corrective measures
- Bakery equipments- Types, selection
- Operations and maintenance

NOTE FOR PAPER SETTING: Duration of Examination=

Question paper shall have (A,B and C) sections.

Section A shall comprise of 4 questions of 2 marks each.
2 questions shall be set from each unit of the prescribed course
All questions shall be compulsory.

Section B shall comprise of 4 questions of 5 marks each.
2 questions shall be set from each unit of the prescribed course content.
All questions shall be compulsory.

Sully



Section C shall comprise of 3 questions of 12 marks each.

1.5 questions shall be set from each unit of the prescribed course content.

Students shall be asked to attempt only 1 question of 12 marks from this section.

TEACHING LEARNING PROCESS

Lectures, Panel Discussion, Demonstration with the help of Diagrams and sketches.

ASSESSMENT METHOD

Seminars, Internal Assessment Test, Home Assignments

KEYWORDS

Bakery, cakes, pastry, operations, maintenance

RECOMMENDED READINGS

1. Dubey, S.C. (2007). Basic Baking 5th Ed. Chanakya Mudrak Pvt. Ltd.
2. Raina et.al. (2010). Basic Food Preparation- A Complete Manual. 4th Ed. Orient Black
3. Wardlaw, Smith. Contemporary Nutrition: A Functional Approach. 2nd ed: 2012. Mc Graw Hill.
4. Williams Melvin. Nutrition for health, fitness and sports. 2004, Mc Graw Hill
5. Joshi AS. Nutrition and Dietetics 2010. Tata Mc Graw Hill.

PRACTICALS

Course Code: UHSPC- 302 (B)

Max.Marks:50

External Assessment: 25

Internal Assessment: 25

Credit: 02

LEARNING OUTCOMES:

- The students will acquire baking skills.

TRAINING IN BAKING OF

1. Cakes _ Cream cake, Sponge cake, cup cake
2. Bread, Buns, Biscuits, cookies

Spicy



**SKILL BASED COURSE SEMESTER 3RD
GENDER DEVELOPMENT**

Syllabus for the Examinations to be held From 2021 onwards

**Course Code: UHSTS 302(A)
Theory**

**Max.Marks:50
External Assessment: 40
Internal Assessment: 10
Credits: 02**

OBJECTIVES:

- To study the changing status of women.
- To make the students aware of Women's legal rights, Values and crime against them.
- To make them understand the role of community towards raising the status of women in India.

LEARNING OUTCOMES:

The course will help the students:

- To understand the changing role of women in the family- the status of women in Indian Literature and methodology.
- To understand Gender variations and roles with the family and in Indian society.
- To get trained in inculcating values regarding legal rights and domestic violence

Unit-I Status of Women in India

- Demographic profile of women in India.
- Women studies in Indian literature and mythology.
- Description of Women in Indian society: Strength and limitations.
- The changing role of women in the family.

Unit –II Gender Variations in Indian Society

- Geographical variations in male, female ratio.
- Caste, class and religious influences on gender roles.
- The role of education in Women empowerment
- Violence against Women domestic, sexual harassment, immoral trafficking.

Selly



NOTE FOR PAPER SETTING:

Question paper shall have (A,B and C) sections

Section A shall comprise of 4 questions of 2 marks each.

2 questions shall be set from each unit of the prescribed course content.

All questions shall be compulsory.

Section B shall comprise of 4 questions of 5 marks each.

2 questions shall be set from each unit of the prescribed course content.

All questions shall be compulsory

Section C shall comprise of 3 questions of 12 marks each.

1.5 questions shall be set from each unit of the prescribed course content.

Students shall be ask to attempt only 1 question of 12 marks from this section .

REFERENCES

1. Begchi, J. (Ed.) (2003) Indian Women: Myth and Reality. New Delhi: Orient Longman.
2. Chanana, K. (Ed.) (2003) Socialization, Education and Women: Exploration in Gender Identity. New Delhi: Orient Longman.
3. Davis, K. (2006) Handbook of Gender and Women's Studies. New Delhi: Sage Publications.
4. Elizabeth Meehan, and Selma Seven Huijsen, (Ed.) (2003) Equality, Politics and Gender. New Delhi: Sage Publication.
5. Gulati, L. (2005) A space of Her Own- Personal Narratives of Twelve Women. New Delhi: Sage Publications.
6. Jain, D. and Rajput, P. (2003) Narratives for the Women's Studies. New Delhi: Sage Publications.
7. Karlekar, M. (1982) Poverty and Women's Work: Study of Sweeper Women in Delhi, New Delhi: Vikas Publication.
8. Kerlekar, G., Nathan, D. and Walter, P. (Ed.) (2003) Gender Relations in Forest Societies in Asia Patriarchy at Odds. New Delhi: Sage Publications.
9. Mathur, K. (2004) Countering Gender Violence- Initiatives towards Collective Action in Rajasthan. New Delhi: Sage Publications.
10. Niranjana, S. (2001) Gender and Space – Femininity, Sexualization and the Female Body, New Delhi: Sage Publications.

Spicy



TEACHING LEARNING PROCESS

Lectures, Panel Discussion, Demonstration with the help of Diagrams and sketches.

ASSESSMENT METHOD

Seminars, Internal Assessment Test, Home Assignments

KEYWORDS

Gender, Women Empowerment, Legal rights, Crime.

PRACTICALS

Course Code: UHSPC- 303(B)

Max.Marks:50

External Assessment: 25

Internal Assessment: 25

Credit: 02

LEARNING OUTCOMES:

- The students will acquire skill in implementation of various awareness generation programmes for women in the community.

Training will be provided to the students from the experts in the below mentioned fields so that they can further train or educate the people in the following__

1. Planning and implementation of awareness generation programme for a community.
2. Legal rights of women
3. Domestic violence in the community
4. Crime against women
5. Sexual Harassment

Spolly



**SKILL DEVELOPMENT COURSE
SEMESTER IV
NUTRITION FOR FITNESS- MATERNAL AND CHILD NUTRITION**

Syllabus for the Examinations to be held from 2021, 2022 and 2023

Course Code: UHSTS 402 (A)
Theory

Max. Marks: 50
External Assessment: 40
Internal Assessment: 10
Credits: 02

OBJECTIVES:

- To study about the maternal health of Women during Pregnancy.
- To study about the care and feeding practices of young children.
- To inculcate the skill of planning diets for women and infance

LEARNING OUTCOMES:

The course will help the students

- To understand the relationship between maternal diet and birth outcome.
- To understand the psychology of breast feeding.
- To become aware about various nutritious policies and programmes.

Unit I

- Nutritional needs during pregnancy, common disorders of pregnancy (Anemia,, HIV infection, Pregnancy induced hypertension), relationship between maternal diet and birth outcome.
- Maternal health and nutritional status, maternal morality and issues related to maternal health.
- Nutritional needs of nursing mothers and infants, determinants of birth weight and consequences of low birth weight
- Breastfeeding biology, Breastfeeding support and counseling.

Unit II

- Infant and young child feeding and care- Current feeding practices
- Nutritional concerns, guidelines for infant and young child feeding.
- Breast feeding, weaning and complementary feeding.
- Nutritional policies and programmes for Women and children

Spicy



NOTE FOR PAPER SETTING:

Question paper shall have (A,B and C) sections

Section A shall comprise of 4 questions of 2 marks each.
2 questions shall be set from each unit of the prescribed course content.
All questions shall be compulsory.

Section B shall comprise of 4 questions of 5 marks each.
2 questions shall be set from each unit of the prescribed course content.
All questions shall be compulsory

Section C shall comprise of 3 questions of 12 marks each.
1.5 questions shall be set from each unit of the prescribed course content.
Students shall be ask to attempt only 1 question of 12 marks from this section

TEACHING LEARNING PROCESS

Lectures, Panel Discussion, Demonstration with the help of Diagrams and sketches.

ASSESSMENT METHOD

Seminars, Internal Assessment Test, Home Assignments

KEYWORDS

Nutritional needs, Feeding practices, Nutritional Guidelines

RECOMMENDED READINGS:

1. Khanna K, Gupta S, Seth R, Passi SJ, Mahna R, Puri S (2013). Textbook of Nutrition and Dietetics. Phoenix Publishing House Pvt. Ltd.
2. Mahan L K and Escott Stump S (2013). Krause's Food & Nutrition Therapy, 13th ed. Saunders-Elsevier.
3. Stacy Nix (2009). William's Basic Nutrition and Diet Therapy, 13th Edition. Elsevier Mosby.
4. Mudambi, SR and Rajagopal, MV. Fundamentals of Foods, Nutrition and Diet Therapy; Fifth Ed; 2012; New Age International Publishers
5. Srilakshmi B. Nutrition Science; 2012; New Age International (P) Ltd.
6. Srilakshmi B. Food Science; Fourth Ed; 2010; New Age International (P) Ltd.
7. Swaminathan M. Handbook of Foods and Nutrition; Fifth Ed; 1986; BAPPCO.

Spilly



8. Bamji MS, Rao NP, and Reddy V. Text Book of Human Nutrition; 2009; Oxford & IBH Publishing Co. Pvt Ltd.
9. Wardlaw GM, Hampl JS. Perspectives in Nutrition; Seventh Ed; 2007; McGraw Hill.
10. Lakra P, Singh MD. Textbook of Nutrition and Health; First Ed; 2008; Academic Excellence.

PRACTICALS

Course Code: UHSPCS 402 (B)
Practical

Max Marks: 50
External Assessment: 25
Internal Assessment: 25
Credits:02

LEARNING OUTCOMES:

- The students will acquire skill in planning and preparing diets for various age groups.

(A) Training the students to plan and prepare diets for _

1. Pregnant women
2. Lactating women
3. Infants

(B) Study of current feeding practices in your local area/Slum area.

Spilly



POLITICAL SCIENCE

GOVERNMENT COLLEGE FOR WOMEN PARADE GROUND, JAMMU

CHOICE BASED CREDIT SYSTEM

SKILL ENHANCEMENT ELECTIVE COURSE I

B.A SEMESTER III

Course No: UPSTS301

Duration of Examination: 3 hours

Credit: 4

Course: Legislative Support

Course Objective

To acquaint the student broadly with the legislative process in India at various levels, introduce them to the requirements of people's representatives and provide elementary skills to be part of a legislative support team. People's representatives need support for the multiple tasks they are supposed to undertake. The need to understand complex policy issues, draft new legislation, track and analyse ongoing bills speeches and floor statements, write articles and press releases, attend legislative meetings, conduct meetings with various stakeholders, monitor media and public development, manage constituent relations and handle inter-office communications. All over the world, elected representatives have an office with specialized support team to carry out these tasks. In India, this has just begun.

In India, this has just begun. With about 5000 MPS AND MLAs, and more than 30 lakhs representatives at the Panchayati Raj Level, there is a vast need that needs to be responded to. This course will equip the student with basic skills for this task and expose them to real life legislative work. It will build their skills and deepen their understanding of the political process.

Course Learning Outcomes

Handwritten signature
HAD
Pol.Sc.

On successful completion of the course, students will be able to:

- Demonstrate knowledge of the structure and the functions of legislating bodies in India
- Demonstrate knowledge of the law-making procedure in India
- Acquire skills related to a close reading of legislative documents
- Understand the relationship between the people and their elected representatives
- Develop basic skills to become a part of a support team engaged at different levels of the law-making functions.

Choice-based credit system

Proposed Syllabus of B.A Semester 3rd

Skill Enhancement Elective Course

Course: Legislative Support

Skill (Theory Course):

Unit I Power and functions of People's Representatives at different tiers of Governance

- 1.1 Parliament: Composition and manner of Elections
- 1.2 Role and Responsibilities of MPs in India
- 1.3 State Legislature :Composition and manner of Elections
- 1.4 Role and Responsibilities of MLAs in India

Unit II Legislative processes And Budget

- 2.1 Legislation :Meaning, Types and procedure of law making in India
- 2.2 Role of Standing Committee in reviewing the Bills
- 2.3 Budget :Meaning, Tradition followed , preparation and review of Union Budget by Parliament
- 2.4 Documenting the Budget: Organisation of Documents, Budget at a glance, Budget speech, Expenditure Budget, Receipt Budget

Heena
HOD
P.W.S.C.

Skill (Practical Course):

Unit III People's Representative at grassroot level(practical)

3.1 Panchayati Raj: 73rd Amendment composition and Features

3.2 (a) Prepare a report on the Roles and responsibilities of Gram sabha/ panchayat/ Nyaya panchayat/Panchayat Samiti/Zilla parishad

(b) Interaction with PRI members functionaries,beneficiaries etc. who can share their experiences about the development taken in their respective area and the challenges faced in the way of development programmes

(c) Observations and Recommendations

3.3 Municipality /municipal Corporation:74th Amendment,Composition and Features

3.4 a) Prepare a report on roles and responsibilities of elected municipal officials

b) Issues and challenges faced by the urban local bodies

c) Observations and recommendations

Unit IV Media Monitoring and Communication

4.1 Media : Meaning and Types

4.2 Legislators and Media :Significance of Media to Legislators

4.3 Impact of Media: Negative and Positive

4.4 Prepare a report on the Impact of Social Media on voting Behaviour of Educated Youth

RECOMMENDED STUDY MATERIAL

- > Madhavan, M.R.&N. Wahi Financing Election Campaigns PRS, Centre for policy Research, New Delhi, 2008:

http://www.prsindia.org/uploads/media/conference/Campaign_finance_brief.pdf.

- > Vanka, S, *Primer on MPLADS* Centre for Policy Research, New Delhi, 2008. can be accessed on:

<http://www.prsindia.org/parliamenttrack/primers/mplads-487/>

- > Kalra, H. *Public Engagement with the Legislative process* PRS, Centre for Policy Research, New Delhi, 2011. Can be assessed

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<http://www.prsindia.org/administrator/uploads/media/Conference%202011/Public%20Engagement%20with%20the%20Legislative%20Process.pdf>

> Government of India (Lok Sabha Secretariat) *Parliamentary Procedures (Abstract Series)*, 2009. Can be accessed on:

<http://164.100.47.132/LssNew/abstract/index.aspx>

> Government of India, (Ministry of Parliamentary Affairs) *Legislation, Parliamentary Procedure*, 2009. Can be accessed on:

[http://ripa.nic.in/Manual/Manual English/Chapter/chapter-09.htm](http://ripa.nic.in/Manual/Manual%20English/Chapter/chapter-09.htm)

> Government of India, (Ministry of Parliamentary Affairs) *Subordinate Legislation, Parliamentary Procedure*, 2009. Can be accessed on:

[http://ripa.nic.in/Manual/Manual English/Chapter/chapter-11.htm](http://ripa.nic.in/Manual/Manual%20English/Chapter/chapter-11.htm)

> Kanpur, Devash and Pratap Banu Mehta, "The Indian Parliament as an Institution of Accountability, * Democracy, Governance and Human Rights, Programme Paper Number 23, United Nations Research Institute of Social Development, January 2006. Can be accessed on:

<http://www.unrisd.org/UNRISD/Website/documents>.

[Nsf/240da49ca467a53f80256bfoo5ef245/8e6fc72d6b546696c1257123002fccc6b/Sfile/KapMeht.pdf](http://www.unrisd.org/UNRISD/Website/documents/Nsf/240da49ca467a53f80256bfoo5ef245/8e6fc72d6b546696c1257123002fccc6b/Sfile/KapMeht.pdf).

> Debroy, Bibek, "Why we need law reform," Seminar January 2001.

> Mehta, Pratap Bhanu, "India's Unlikely Democracy: The Rise of Judicial Sovereignty," *Journal of Democracy* Vol. 18, No.2, pp.70-83.

> Sanyal, K. *Strengthening Parliamentary Committees* PRS, Centre for Policy

Research, New Delhi, 2011. can be accessed on:

<http://www.prsindia.org/administrator/uploads/media/Conference%202011/Strengthening%20Parliamentary%20Committees.pdf>

> Celestine, A. *How to read the Union Budget* PRS, Centre for Policy Research, New Delhi can be accessed on:

<http://www.prsindia.org/parliamenttrack/promers/how-to-read-the-union-budget-1023/>

LEARNING PROCESS

Lectures, Tutorials, Group Discussion, regular class tests, PowerPoint presentation etc.

ASSESSMENT METHODS

Internal Assessment and Final Examination as per CBCS Rules

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Skill theory course

Guidelines for design of the course

1. Total credits = 2
2. Maximum marks 50 (Internal 10, External 40)
3. The course content to be consolidated into two units of 4 subunits each

Evaluation strategy

A) Internal assessment

1. Internal assessment (10 Marks) as per the adopted procedure for other courses.
2. No marks have been earmarked for attendance, however the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

B) External end semester Examination

1. Maximum Marks =40.
2. Question paper shall have three sections (A,s B and C)

Section A

- shall comprise of 4 questions of 2 marks each.
- 2 questions shall be set from each unit of the prescribed course content.
- All questions shall be compulsory.

Section B

- shall comprise of 4 questions of 5 marks each
- 2 questions shall be set from each unit of the prescribed course content.

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- All questions shall be compulsory.

Section C

- shall comprise of 3 questions of 12 marks each.
- 1.5 questions shall be set from each unit of the prescribed course content.
- Students shall be asked to attempt only one question of 12 marks from this section.

Skill Practical course

Guidelines for design:-

- Total credits = 2
- Maximum marks 50 (Internal 25, External 25)
- The course content (Practical/ projects/ field survey etc) shall be set as per the requirements of the course/ or as adopted in other practical courses.

Evaluation strategy

A) Internal assessment

- Internal assessment (25 Marks) as per the adopted procedure for other courses.
- 5 marks have been earmarked for attendance, and the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

B) External end semester Examination

Maximum Marks =25.

Procedure of the external examination shall be same as is followed in other practical courses.

- Section B, contains 05 medium answer type questions (one from each unit) carrying 7 marks each. All the questions in this section are compulsory. (35 marks)

Section C, contains 05 long answer type questions each carrying 15 marks one from each unit and candidate is required to attempt any two questions. (30 marks)

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LEARNING OUTCOME BASED CURRICULUM OF B.A SEMESTER IV (SKILL)



POLITICAL SCIENCE

GOVERNMENT COLLEGE FOR WOMEN PARADE GROUND, JAMMU

CHOICE BASED CREDIT SYSTEM

SKILL ENHANCEMENT ELECTIVE COURSE I

B.A SEMESTER IV

Course No: UPSTS401

Duration of Examination: 3 hours

Credit: 4

Course: PublicOpinion and Survey Research

Course Objective

This course will introduce the students to debates, principles and practices of public opinion polling in the context of democracies, with special reference to India. It will familiarize the students with how to conceptualize and measure public opinion using quantitative methods, with particular attention being paid to developing basic skills pertaining to the collection, analysis and utilization of quantitative data.

Course Learning Outcomes

Course aims at introducing students to debates, principles and practices of public opinion polling in the context of democracies with reference to India. The course familiarizes the students about the method of data collection.

1. The course offers a wider exposure to the researchers in collection, analysis and utilization of data.
2. Students are not just taught theory but also how to apply the theory in explaining, accessing and critically examining the political questions and political phenomena.
3. The focus of the teaching learning is not to test the memory power of the students but to access their imaginative and innovative mind in the analysis of given situations.

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Choice-based credit system

Skill Enhancement Elective Course

Proposed Syllabus of B.A Semester IV

Course : Public Opinion And Survey Research

Skill (Theory Course):

Unit I Introduction to the course

1.1 Public Opinion: Meaning and Characteristics

1.2 Ways of measuring Public Opinion

1.3 Debates on the Role of Public Opinion in Democracy

1.4 Social media and public opinion

Unit II Survey Research

2.1 Survey Research: Meaning and Types

2.2 Sampling :Meaning, Types and Design

2.3 Random sampling simple and stratified 2.4 Non-Random sampling: Quota purposive and snowball

Skill (Practical Course):

Unit III Methods of Data Collection (Practical)

3.1 a)Interviews: Meaning and Types

b)Interview Design: prepare strategy for focus group interview

3.2a)Questionnaire: Meaning and Format

b) Stages in Designing and framing the Questionnaire

3.3 Observation: meaning

b) Steps followed for writing Observation

3.4 Case Study: meaning

b)Steps for creating Effective Case study

Unit IV Survey Research (practical)

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4.1 Prediction in polling research: Possibilities and Pitfalls

4.2 Politics of Interpreting polling

4.3 Prepare a study on the Relevance of Opinion polls and Exit polls in Democracy

4.4 Quantitative Data : concept

b) Prepare a Study on the advantages and disadvantages of online survey

Recommended Books

- Erikson and K. Tedin, (2011) *American Public Opinion*, 8th edition, New York: Pearson Longman Publishers, pp. 40-46
- G. Gallup, (1948) *A guide to public opinion Polls* Princeton, Princeton University Press, 1948, pp. 3-13, 22
- G. Kalton, (1983) *Introduction to Survey Sampling* Beverly Hills, Sage Publication.
- Lokniti Team (2009) 'National Election Study 2009: A methodological Note', *Economic and Political Weekly*, Vol. XLIV (39)
- Lokniti Team, (2004) 'National Election study 2004', *Economic and Political Weekly*, Vol. XXXIX (51).
- 'Asking About Numbers: Why and How', *Political Analysis* (2013), Vol. 21(1):48-69, (first published online November 21, 2021)
- H. Asher, (2001) 'Chapters 3 and 5', in *Polling and public: What every Citizen Should Know*, Washington DC: Congressional Quarterly Press.
- R. Erikson and K. Tedin, (2011) *American Public Opinion*, 8th edition, New York, Pearson Longman Publishers, pp. 40
- Agresti and B. Finlay, (2009) *Statistical methods for the Social Sciences*, 4th edition, upper saddle river, NJ, Pearson-Prentice Hall,
- S. Kumar and P. Rai, (2013) 'Chapter 1', in *measuring voting Behaviour in India*, New Delhi: Sage
- R. Karandikar, C. Pyne and Y. Yadav, (2002) 'Predicting the 1998 Indian Parliamentary Elections', *Electoral Studies*, Vol. 21, pp.69-89.
- M. McDermott and K. A. Pankovic, (2003) *Horseshoe polling and Survey Methods Effects: An Analysis of the 2000 Campaign*, *public, Opinion Quarterly* 67, pp. 244-264.
- K. Warren, (2001) 'Chapter 2', In *In Defense of Public Opinion Polling*, Boulder: Westview Press, pp. 45-80.
- W. Cochran, (2007). 'Chapter 1', *Sampling Techniques*; John Wiley and Sons.
- G. Gallup, (1948) *A Guide to Public Opinion polls*. Princeton: Princeton University Pres, pp.14-20; 73-75, 23
- D. Rowntree (2000) *Statistics Without Tears: an Introduction for Non-Mathematicians*, Harmondsworth: Penguin


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- Ahuja, Ram. Research Methods, New Delhi, Rawat Publications 2014
- Gupta, S.P Practical Statistics New Delhi S.Chand & Company Ltd.2002
- Gupta, S.P & Kapoor, V.K Fundamentals of Applied statistics, New Delhi, Sultan Chand & Sons, 2007
- Kothari, C.R Research Methodology-Methods and Techniques (2ndEdition) New Delhi, New Age International Publishers, 2011
- Koul, Lokesh. Methodology of Educational Research New Delhi, Vikas Publishing House, Pvt. Ltd 2016
- Kumar, Ranjit. Research Methodology-A Step-by-Step Guide for Beginners, New Delhi, Sage, 2016
- Kumar, S. and Rai, P. Measuring Voting Behaviour in India, New Delhi Sage, 2013.

LEARNING PROCESS

Lectures, Tutorials, Group Discussion, regular class tests, PowerPoint presentation etc.

ASSESSMENT METHODS

Internal Assessment and Final Examination as per CBCS Rules

Skill theory course

Guidelines for design of the course

4. Total credits = 2
5. Maximum marks 50 (Internal 10, External 40)
6. The course content to be consolidated into two units of 4 subunits each

Evaluation strategy

C) Internal assessment

3. Internal assessment (10 Marks) as per the adopted procedure for other courses.
4. No marks have been earmarked for attendance, however the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

D) External end semester Examination

3. Maximum Marks =40.
4. Question paper shall have three sections (A, B and C)

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EDUCATION

Semester-III

**Title: Guidance and Counselling
(Skill Enhancement Course)**

Course code: UEDTS-301

Duration of Theory Exam.: 1 ½ hrs

Credit :4

Total marks :100

External Semester End Examination : 65

Internal Assessment marks: 35

Objectives of the Course:

1. To provide information to the students regarding guidance and counselling.
2. To help the students to gain experiences which will help them in making free and wise choices.
3. To help the students in self direction i.e. to develop in them the abilities and skills to solve their educational and vocational problems for themselves.
4. To assist the students to understand and accept their talents.

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5. To help the students to develop value sense and to recognize their aspirations in the light of reality with reference to their strengths and weaknesses.

Unit-I: Introduction to Guidance

- Meaning, Nature and Need of Guidance
- Functions of Guidance
- Principles of Guidance
- Relationship between Education and Guidance

Unit-II: Introduction to Counselling

- Concept of Counselling
- Types of Counselling - Directive, Non Directive and Eclectic- Basic assumptions and procedure
- Role of Counsellor
- Professional Ethics of counsellor

Unit-III: Techniques of Guidance (Practical)

- Concept of Techniques of guidance
- Collection of Cumulative record as a technique of Guidance and how to interpret the record for the Guidance
- Collection and Interpretation of Anecdotal record as a technique of Guidance, Different interpretations of Anecdotes
- Collection and Interpretation of Autobiography as a technique of Guidance

Unit-IV: Vocational Guidance and Job analysis (Practical)

- Concept of Vocational Guidance and Job analysis
- Job description as a method of Job Analysis, List of Vocations and the Qualifications
- Job Identification as a method of Job Analysis
- Problems and Prospects of different Vocations.

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SCHEME OF EVALUATION:

A) Internal assessment

1. Internal assessment (10 Marks) as per the adopted procedure for other courses.
2. No marks have been earmarked for attendance, however the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

B) External end semester Examination

1. Maximum Marks =40.
2. **Question paper shall have three (A, B and C)sections :-**
 - i) **Section A** shall comprise of 4 questions of 2 marks each.
 - ii) 2 questions shall be set from each unit of the prescribed course content.
 - iii) All questions shall be compulsory.
 - i) **Section B** shall comprise of 4 questions of 5 marks each
 - ii) 2 questions shall be set from each unit of the prescribed course content.
 - iii) All questions shall be compulsory.
 - i) **Section C** shall comprise of 3 questions of 12 marks each.
 - ii) 1.5 questions shall be set from each unit of the prescribed course content.
 - iii) Students shall be asked to attempt only one question of 12 marks from this section.

Skill Practical course

Guidelines for design:-

1. Total credits = 2
2. Maximum marks 50 (Internal 25, External 25)
3. The course content (Practical/ projects/ field survey etc) shall be set as per the requirements of the course/ or as adopted in other practical courses.

Evaluation strategy

A) Internal assessment

1. Internal assessment (25 Marks) as per the adopted procedure for other courses.

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2. 5 marks have been earmarked for attendance, and the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

B) External end semester Examination

Maximum Marks =25.

Procedure of the external examination shall be same as is followed in other practical courses.

Books Recommended:

- Aggarwal, J.C. (1995) : Educational and Vocational Guidance and Counselling, Doaba House, New Delhi.
- Jones, J.A. (1970): Principles of Guidance, Tata McGraw Hill, Bombay.
- Pandey, K.P. (2000): Educational and Vocational Guidance in India, Vishwa Vidyalaya Prakashan, Varanasi.
- Strang, Ruth (1968): Counseling Techniques in Colleges and Secondary Schools, Harper and Row, New York.
- Taxler, A.E. (1964) : Techniques of Guidance, McGraw Hill, New York.
- Kochhar, S.K. (2000): Guidance and Counseling in Colleges and Universities, Sterling, New Delhi.

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EDUCATION

Semester-IV

Title: Statistics in Education

(Skill Enhancement Course)

Course code: UEDTS-401

Duration of Theory Exam.: 1 1/2 hrs

Credit :4

Total marks :100

External Semester End Examination : 65

Internal Assessment marks: 35

OBJECTIVES OF THE COURSE

- To enable the students to understand the basic concept, meaning and scope of statistics.
- To make the students to understand the importance of statistics in education.
- To enable the students to understand the concepts of data and its different types.
- To acquaint the students with the measures of central tendency..
- To enable the students to understand the concept of mean, median and mode along with its merits and demerits.
- To help the students to understand various steps in the computation of different measures of central tendency.
- To help the students to be aware of the tools of data collection.
- To enable the students to understand various steps involved in the development of different tools of data collection.
- To make the students understand about writing report on different topics

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- To enable the students in the development of questionnaire, checklist and rating scale as a tool of data collection.

UNIT-I: Statistics and its use in Education

- Concept and nature of statistics.
- scope of Statistics
- Importance of Statistics in the field of Education
- Concept and types of Data

UNIT-II: Measures of Central Tendency

- Mean: Concept, computation, merits and demerits
- Median: Concept, computation, merits and demerits
- Mode: Concept, computation, merits and demerits
- Computation of Mean, Median and Mode for ungrouped data

UNIT-III: Development of Tools of Data Collection (Practical)

- Concept of Questionnaire and development of a questionnaire for data collection
- Concept of Checklist and development of a checklist for data collection
- Concept of Rating Scales and development of a rating scale for data collection.
- Concept of Attitude scales and development of an attitude scale for data collection.

UNIT-IV: Survey Research (Practical)

- Types of Research: Qualitative and Quantitative
- Concept of Interview and steps involved in conducting an effective Interview.
- Concept of survey, various steps involved in the conduct of a survey and writing a survey report based on a topic of institutional importance
- Concept of case study, various steps involved in the conduct of a case study and prepare a report on a case study conducted on a topic of institutional importance.

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Learning Outcomes Based Curriculum Framework

(LOCF)

For

Bachelor of History

SEMESTER 3rd and 4th

Skill Course

2021



Government College For Women

Parade Ground

Jammu

SKILL ENHANCEMENT COURSE: PAPER I

TITLE- Cultural Heritage and Tourism (Semester III)

Course Code: UHTTS-302

THEORY COURSE

Max Marks: 50

Credits:2

(a) Semester Examination:40marks

(b) Sessional Assessment :10 marks

UNIT- I HERITAGE

- i.) Defining Heritage
- ii.) Art and Architecture: Concept in Ancient India
- iii.) Understanding Built Heritage
- iv.) Stupa Architecture : Sanchi

UNIT-II Indo Persian Architecture and Tourism management

- i.) Indo Persian Architecture : features
- ii.) Forts and Palaces in Delhi : General features
- iii.) Varieties of Tourism
- iv.) Tourism Management.

PRACTICAL COURSE


Max Marks: 50

Credits:2

(a) Semester Examination:25marks

(b) Sessional Assessment :25 marks

- i.) A Case Study of any one of the following : Bahu fort, Vaishno Devi, Shrine of Baba Budhan Shah and Gurudwara Maharani Chand Kaur (Gumat)
- ii.) Photo documentation of Amar Mahal Palace
- iii.) Report writing on Raghunath Temple Complex


(Anjeela Qureshi)
Head,
Dept. of History.

SKILL ENHANCEMENT COURSE: PAPER II

TITLE- An Introduction to Archaeology (Semester IV)

Course Code: UHTTS-402

THEORY COURSE

Max Marks: 50

Credits:2

(a) Semester Examination:40marks

(b) Sessional Assessment : 10 marks

UNIT- I Archaeology

- i.) Defining Archaeology
- ii.) Understanding its origin and development
- iii.) The variety of archaeological evidence-I : Monuments
- iv.) The variety of archaeological evidence-II : Numismatics.

UNIT-II

- i.) Survey of Sites
- ii.) Excavation of Sites
- iii.) Discovering human experience through archaeology: Environment
- iv.) Discovering human experience through archaeology: Technology

PRACTICAL COURSE

Max Marks: 50

Credits:2

(a) Semester Examination:25marks

(b) Sessional Assessment :25 marks

- i.) A Case study of any one of the following : Ambaran, Krimchi temples, Manda and Ancient site at Babour (Ramnagar)
- ii.) Photo documentation of Mubarak Mandi Complex
- iii.) Report writing on Akhnoor fort

(Anjeela Qureshi)
Head,
Dept. of History.

**Govt. College for Women Parade Ground, Jammu
(Autonomous College)**



B.Sc. Programme curriculum (CBCS) - Physics

Skill- Enhancement Elective Course- (SEC)

Title: Renewable Energy and Energy Harvesting

(Session 2021-22, 2022-23, 2023-24)

Semester-IV

Code: UPHTS-401

(Credits: Theory-02, Practicals-02) Theory: 30 Lectures, Practicals: 60 Hours

Internal Examination: 10 Marks

External Examination: 40 Marks

Course Objective

The main objective of this course is to impart knowledge and hands-on learning to students about various alternative energy sources. While framing this course, more emphasis is laid on to teach the ways of harvesting energy by means of wind, solar, mechanical, ocean, geothermal energy etc. and to review the working of various energy harvesting systems installed in India and worldwide.

Course learning outcomes

On the completion of this course, students will be able to:

- Acquire the knowledge of various sources of energy for harvesting.
- A good understanding of various renewable energy systems and its components.
- Acquire skills for using some of the renewable energy systems.
- Develop mechanical skills about renewable energy technologies, different storage technologies, regulation and their control.
- Design the model for the wind energy or solar energy plant and will also gain hands-on experience for different kinds of alternative energy sources, conversion of thermal energy into voltage using thermoelectric modules and conversion of vibration into voltage using piezoelectric materials.

UNIT-I:

Sources of Renewable Energy:

Solar Energy:

Need of Renewable energy, An overview of non-conventional sources of energy.

Solar Radiation, Measurement of Solar Radiation, Radiation measuring instruments (Qualitative Idea), Solar Energy, Benefits of harnessing solar energy, Storage of Solar Energy, Solar Water Heater, Solar Cooker, Photo-Voltaic Systems and uses, Principle of photovoltaic conversion, Characteristics of Photovoltaic (PV) systems, PV Models and equivalent circuits, Solar Cells and characteristics, Solar Green Houses.

Hydro-Energy:

Hydropower Resources, Hydropower Resources in Jammu and Kashmir, Hydropower scenario in J&K, Essential elements of a hydro-electric power plant, Hydropower technologies, Advantages and Disadvantages of Hydropower.

(15 Hours)

Unit-II:

Energy Storage Systems and Energy Harvesting:

Electrochemical Energy Storage Systems: Cells and Batteries, Types, Working principles and applications. Carbon capture and storage technology, present scenario in India. Fuel Cells, Principle of working, Basic thermodynamic and Electrochemical principles, Classifications, Applications for power generations.

Basic Physics of Piezoelectric effect, mathematics, materials and methods of piezo-electricity, piezoelectric generators and piezo-electric energy and applications.

Electrical Utilities:

Electric Motors, Motor Types, Characteristics, Efficiency. Energy Efficient Motors, Factors affecting Energy efficiency of a motor.

(15 Hours)

PRACTICALS

Code: UPHPS- 401

External Examination: 25 marks

Internal Examination: 25 marks

In this Skill practical course, more emphasis is laid on the project work. Students are required to perform a maximum number of practicals from the following.

However, in case of non- availability of equipment, the teacher may give a long duration project/Module based on this paper.

Practicals:

1. To study/verify the inverse square law of radiation using photovoltaic cells.
2. Study the (V-I), Power load (VI-R), Area and Azimuthal Characteristics of Solar Cell (Photovoltaic Cell)
3. To study the spectral characteristics of Photovoltaic Cell.

4. To compare the luminous intensities (Illuminating powers) of two light sources using photovoltaic cells.

Projects:

1. Assessment of Hydropower stations of J&K, Power Generation Capacity of these stations, Power Distribution etc.
2. To set up a Charging station/Energy station in the laboratory using solar energy.
3. Field visit to a Hydropower Station/Solar power plant followed by the submission of a project report.

Reference for Theory:

Essential Readings

1. Solar Energy, Suhas P Sukahative, Tata McGraw-Hill Publication company Ltd.
2. Renewable Energy, Power for a sustainable future, Godfrey Boyle, 3rd Edition, 2012, Oxford University Press.

Additional Readings

1. Solar Energy: Resource Assessment Handbook, P Jayakumar, 2009
2. https://en.wikipedia.org/wiki/Renewable_energy

Reference for Laboratory

1. Non-conventional energy sources, B.H. Khan, McGraw Hill 60

**Govt. College for Women Parade Ground, Jammu
(Autonomous College)**



B.Sc. Programme curriculum (CBCS) Physics

Skill- Enhancement Elective Course- (SEC)

Title: Physics Workshop Skills

(Session 2021-22, 2022-23, 2023-24)

Semester-III

Code: UPHTS-301

(Credits: Theory-02, Practicals-02) Theory: 30 Lectures, Practicals: 60 Hours

Internal Examination: 10 Marks

External Examination: 40 Marks

Course Objective

This skill enhancement elective course is designed with an objective to enable the students to be familiar and acquire experience of various mechanical and electrical tools through hands- on mode.

This course helps the students in learning and working of various devices and the different sorts of errors encountered in the measurement process. This course empowers the students to get exposure to working with different machines and tools through demonstration and experimental techniques. It also improves the mechanical and technical skills of the students.

Course learning outcomes

At the end of this course, students will be able to achieve the following learning outcomes:

- Knowledge of making measurements with devices like Vernier caliper, Screw gauge, Travelling microscope and Sextant for measuring height of buildings, mountains, etc.
- Students acquire skills for using various electrical devices such as multimeter, oscilloscopes, power supplies, soldering iron, relays, function generator, d.c and a.c bridges like wheatstone bridge, Anderson's bridge etc.
- Develop mechanical skills in drilling, machining, casting, introduction to common machine tools like shaper, milling, surface machines and cutting tools.
- Students become familiar with wheels, lifting of weight using levers, use of pulleys and power generation systems.

UNIT-I :

Measurement and mechanical skills

Review of different measuring systems and their interconversion, familiarization with meter scale, Vernier Calliper, Screw gauge, Spherometer and travelling microscope. Measuring the dimensions of a solid block, volume of cylindrical beaker/glass, diameter of a thin wire, bob of a pendulum, thickness of a metal sheet, etc. Use of sextant to measure height of buildings, mountains, etc.

Introduction to manufacturing methods: casting, foundry, machining and forming. Materials used for manufacturing, introduction and use of common machine tools like lathe, shaper, drilling and surface machines. cutting of a metal sheet using a blade, drilling holes of different diameter in metal sheets and wooden blocks. Use of bench vice and tools for fitting and lubricating oils. **(15 Hours)**

UNIT II:

Basic laws of electricity, Measuring instruments and devices

Introduction to fundamental terms like Resistance, capacitance, inductance, cell, voltage, current, a.c, d.c, power etc. and their units. Ohm's law, Kirchoff's laws, simple series and parallel combinations of electrical circuits, power supply, electric wiring used at homes and commercial units of electricity.

Measuring instruments such as voltmeter, ammeter, tester pin, multimeter (digital and analog) and function generator. Introduction to instruments like C.R.O (Cathode Ray Oscilloscope), d.c and a.c bridges like Wheatstone bridge, De-Sauty's bridge and Anderson's bridge with important applications.

(15 Hours)

PRACTICALS

Code: UPHPS- 301

External Examination: 25 marks

Internal Examination: 25 marks

In the Skill practical course, emphasis is laid on taking observations, calculations, graphs and results. Students are asked to perform at least five practicals from the following.

However, in case of non-availability of equipment, the teacher may give a long duration project/Module based on this paper.

Experiments:

1. To find the diameter of a cylindrical / spherical body and hence its volume by using a Vernier calliper.
2. To find the thickness of two or more wires / sheets by using a Screw gauge.
3. To find the radius of curvature of concave and convex mirrors/lenses by using a Spherometer.
4. To find the refractive index of a transparent liquid (water) with the help of a travelling microscope.
5. To perform the practical drilling of holes in wood, plastic and metal.
6. Experiment for cutting of a glass and a metal sheet.
7. Experiment to verify Ohm's law.
8. Experiment to verify Kirchoff's laws.
9. To find the value of an unknown resistance by using a Wheatstone bridge.
10. To compare the capacitances of two capacitors by de-Sauty's null method.

11. To find the self inductance of a coil by Anderson's bridge method using a headphone.
12. Experiment to measure resistance, current, voltage(d.c and a.c) in an electrical circuit by using a multimeter
13. To obtain the waveform of A.C. mains supply using a cathode ray oscilloscope.

Text & Reference Books:

1. Principles of Electronics by V. K. Mehta (S.Chand and Co)
2. Basic Electronics by B. L. Theraja (S. Chand and Co)
3. Performance and design of A. C. Machines-M.G. Say, ELBS Edn.
4. Mechanical workshop practice, K. C. John 2010, PHI Learning Pvt. Ltd.
5. Workshop Processes, Practices and Materials, Bruce J Black 2005, 3rd Edn.
6. B. Sc Practical Physics by C. L. Arora
7. Advanced Practical Physics for students, B. L. Flint and H. Worsnop 1971, Asia Publishing House.
8. Electronic Devices and Circuits, S. Salivahanan & N. S. Kumar, 3rd Edn. 2012, Tata Mc-Graw Hill.


Head of Department Physics (HOD)
G.C.W. Parade, Jammu



SOCIOLOGY
Semester-III

GENDER SENSITIZATION

Course code: USOTS-301

(Skill Enhancement Course)

Duration of Theory Exam.: 1 ½ hrs

Credit :4

Total mark:100

External Semester End Examination : 80

Internal Assessment marks: 20

Unit I: Understanding Gender

1.1 Sex Vs Gender

1.2 Gender Role Socialization

1.3 Patriarchy

Unit II: Gender and Work

1.1 Gender based division of labour

1.2 Production v/s Reproduction

1.3 Household work

1.4 Women in organized and unorganized sector

Unit III: Gender Issues (Project writing based on secondary sources)

3.1 Declining sex ratio

3.2 Domestic Violence

3.3 Gender Discrimination

Unit IV: Field Visits

4.1 Field visits to different social institutions like orphan age, old age homes, women's organisations, women's shelter, family court etc. followed by the submission of the report.

In case, field visits cannot be conducted a teacher can give a short project related to this paper (Gender sensitization)

SCHEME OF EVALUATION:

A) Internal assessment

1. Internal assessment (10 Marks) as per the adopted procedure for other courses.
2. No marks have been earmarked for attendance, however the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

B) External end semester Examination

1. Maximum Marks =40.
2. **Question paper shall have three (A, B and C) sections :-**
 - i) **Section A** shall comprise of 4 questions of 2 marks each.
 - ii) 2 questions shall be set from each unit of the prescribed course content.
 - iii) All questions shall be compulsory.

- i) **Section B** shall comprise of 4 questions of 5 marks each
- ii) 2 questions shall be set from each unit of the prescribed course content.

iii) All questions shall be compulsory.

i) **Section C** shall comprise of 3 questions of 12 marks each.

ii) 1.5 questions shall be set from each unit of the prescribed course content.

iii) Students shall be asked to attempt only one question of 12 marks from this section.

Skill Practical course

Guidelines for design:-

1. Total credits = 2

2. Maximum marks 50 (Internal 25, External 25)

3. The course content (Practical/ projects/ field survey etc) shall be set as per the requirements of the course/ or as adopted in other practical courses.

Evaluation strategy

A) Internal assessment

1. Internal assessment (25 Marks) as per the adopted procedure for other courses.

2. 5 marks have been earmarked for attendance, and the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

B) External end semester Examination

Maximum Marks =25.

Procedure of the external examination shall be same as is followed in other practical courses.

BOOKS RECOMMENDED

- Ann Oakley, 1974. *The Sociology of Housework*. UK: Oxford Publications.
- Annandale, Ellen. 1999. *The society of Health and Medicine: A Critical Introduction*. New Delhi: Black Well Publishers.
- Arnol, Fred. 1998. *Son Preference, Family-Building Process and Child Mortality in India*. Population Studies 52(3).

- B.Miller. 1979. *The Status of Women: Literacy and Employment*. Allied Publications.
- Bhadra, Mita.1999. *Girl child in Indian society*. New Delhi: Rawat publications
- Bhardwaj, Prem. 2005. *Gender Discrimination: Politics of Women Empowerment*. New Delhi: Anamika Publishers.
- Bhasin, K. 1993. *What is Patriarchy*. New Delhi: Kali Publications.
- Bhasin, K. 2000.*Undersatnding Gender*. New Delhi: Kali Publications
- Chaudhary, M. (e.d) 2004. *Feminism in India*. New Delhi: Kali for Women and Women Unlimited Publications.
- Desai and Thakkar .2001. *Women in Indian society* '.New Delhi: National Book Trust.
- Patel, Tulsi. 2007. *Sex-selective Abortions in India: Gender, Society and New Reproductive Technologies*. New Delhi: Sage Publications.

Renu Gupta



SOCIOLOGY

Semester-IV

Title: QUANTITATIVE & QUALITATIVE RESEARCH METHODS

(Skill Enhancement Course)

Course code: USOTS-301

Duration of Theory Exam.: 1 ½ hrs

Credit :4

Total marks :100

External Semester End Examination : 80

Internal Assessment marks: 20

Unit I: Understanding Social Research

1.1 Meaning and Significance

1.2 Steps in Social Research

1.3 Hypothesis: meaning and types

Unit II: Basic Statistics and Computers

- 2.1 Measures of Central tendency: Mean, Median and Mode
- 2.2 Presentation of data: Graphs and Histograms
- 2.3 Use of computers in social Research

Unit III: Tools and Techniques of Data selection (Practical)

- 3.1 Data-Primary and Secondary
- 3.2 Concept of questionnaire and development of a questionnaire for data collection
- 3.3 Interview and various steps involved in conducting an effective interview

Unit IV: Qualitative and Quantitative Research Methods (Practical)

- 4.1 Types of research: Qualitative and Quantitative
- 4.2 Concept of case study, various steps involved in the conduct of case study and prepare a report on a case study conducted on the topic of social importance
- 4.3 Concept of Survey, various steps involved in the conduct of a survey and writing a survey report based on a topic of social importance.

Note: Small group of students conduct studies rather than on individual basis.

SCHEME OF EVALUATION:

A) Internal assessment

1. Internal assessment (10 Marks) as per the adopted procedure for other courses.
2. No marks have been earmarked for attendance, however the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

B) External end semester Examination

1. Maximum Marks =40.

2. **Question paper shall have three (A, B and C) sections :-**

- i) **Section A** shall comprise of 4 questions of 2 marks each.
- ii) 2 questions shall be set from each unit of the prescribed course content.
- iii) All questions shall be compulsory.
- i) **Section B** shall comprise of 4 questions of 5 marks each
- ii) 2 questions shall be set from each unit of the prescribed course content.
- iii) All questions shall be compulsory.
- i) **Section C** shall comprise of 3 questions of 12 marks each.
- ii) 1.5 questions shall be set from each unit of the prescribed course content.
- iii) Students shall be asked to attempt only one question of 12 marks from this section.

Skill Practical course

Guidelines for design:-

1. Total credits = 2
2. Maximum marks 50 (Internal 25, External 25)
3. The course content (Practical/ projects/ field survey etc) shall be set as per the requirements of the course/ or as adopted in other practical courses.

Evaluation strategy

A) Internal assessment

1. Internal assessment (25 Marks) as per the adopted procedure for other courses.
2. 5 marks have been earmarked for attendance, and the eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses.

B) External end semester Examination

Maximum Marks =25.

Procedure of the external examination shall be same as is followed in other practical courses.

Books Recommended:

- Ahuja, Ram. 2000. *Research Methods*. New Delhi: Rawat Publications
- Babbie, Earl. 1998. *The Practice of Social research*. Belmont: Wadsworth Publication.

- Gore, M.S. (e.d). *Third Survey of Research in Sociology and Social Anthropology (vol-1)*. ICSSR. New Delhi: Manak Publications.
- Kvale, Steiner. 1996. *Interviews: An Introduction to Qualitative Research in Interviewing*. New Delhi: Sage Publications
- P.V. Young. *Scientific Social Survey and Research*. Delhi: Vikas Publications.
- Patrick Meneill and Steve Chapman. 2005, *Research Methods*. New Delhi: Routledge
- Sarantakos. 1998. *Social Research*. London: Macmillian Press.
- Gupta, S.P. 2004. *Statistical Methods*. New Delhi: Sultan Chand and Sons.

Shri Gupta

GOVT COLLEGE FOR WOMEN PARADE, JAMMU

B.A. Vth SEMESTER SOCIOLOGY (CBCS)



Course No : USOTDSE 501

Duration : 3 hrs.

Credit : 6

Total Marks : 100

Title : Social Stratification and Mobility

Total Marks : 100

Theory Examination : 80 (1 hour)

Internal Assessment : 20 (3 hours)

Unit-I: Concept of Social Stratification

- 1.1 Meaning & Characteristic
- 1.2 Social Differentiation
- 1.3 Social Hierarchy

Unit-II Forms of Social Stratification

- 2.1 Caste
- 2.2 Gender
- 2.3 Class & Estate

Unit-III Theoretical Perspective

- 3.1 Functionalist: Davis & Moore
- 3.2 Marxian
- 3.3 Weberian

Semester- III Skill Course

Title: Electronics Workshop

Credits:04

Internal Examination: 10marks

End Semester Examination: 40marks

Code: UETTS-301

Total Marks: 100

Duration: 2hours

Unit I: Basic Electricity Principles: Voltage, Current, Resistance, and Power. Ohm's law. Series, parallel, and series-parallel combinations. AC and DC Electricity. Familiarization with multimeter, voltmeter and ammeter.

Unit II: Electrical Circuits: Basic electric circuit elements and their combination. Rules to analyze DC sourced electrical circuits. Current and voltage drop across the DC circuit elements. Single-phase and three-phase alternating current sources, Rules to analyze AC sourced electrical circuits. Real, imaginary and complex power components of AC source. Power factor. Saving energy and money.

Unit III: Electrical Drawing and Symbols: Drawing symbols. Blueprints, Reading Schematics. Ladder diagrams, Electrical Schematics. Power circuits. Control circuits. Reading of circuit schematics. Tracking the connections of elements and identify current flow and voltage drop. DC Power sources. AC/DC generators. Inductance, capacitance, and impedance. Operation of transformers. Single-phase, three-phase & DC motors. Basic design. Interfacing DC or AC sources to control heaters & motors. Speed & power of ac motor.

Unit IV: Solid-State Devices: Resistors, inductors and capacitors. Diode and rectifiers. Components in Series or in shunt. Response of inductors and capacitors with DC or AC sources. Relays. Fuses and disconnect switches. Circuit breakers. Overload devices. Ground-fault protection. Grounding and isolating. Phase reversal. Surge protection. Relay protection device.

Unit V: Electrical Wiring: Different types of conductors and cables. Basics of wiring-Star and delta connection. Voltage drop and losses across cables and conductors. Instruments to measure current, voltage, power in DC and AC circuits. Insulation. Solid and stranded cable. Conduit. Cable trays. Splices: wirenuts, crimps, terminal blocks, and solder. Preparation of extension board.

Reference Books:

- Electrical Circuits, K.A. Smith and R.E. Alley, 2014, Cambridge University Press
- A text book in Electrical Technology - B L Theraja - S Chand & Co.
- A text book of Electrical Technology - A K Theraja
- Performance and design of AC machines - M G Say ELBS Edn.

Practicals Semester III Skill Course

Title: Electronics workshop Lab

Course code: UETTS-302

Total Marks= 50

Credit: 02

Internal practical examination= 25
25

External Practical Examination=

Duration=03 hrs

List of Practical in semester-III Skill Course

1. To study half wave rectifier---with and without shunt capacitance filter.
2. To study centre tapped full wave rectifier---with and without shunt capacitance filter.
3. To study Zener diode as voltage regulator---load regulation.
4. Design , fabrication and testing of a 9v power supply with Zener regulator
5. Designing of a CE based amplifier of a given gain.
6. Design and study of Transistor biasing techniques.
7. Study of the frequency response of series LCR circuit and determination of its:-
 - a. Resonant Frequency
 - b. Impedance at resonance
 - c. Quality factor (Q)
 - d. Bandwidth

Books Recommended:

- Electrical Circuits, K.A. Smith and R.E. Alley, 2014, Cambridge University Press
- A text book in Electrical Technology - B L Theraja - S Chand & Co.
- A text book of Electrical Technology - A K Theraja
- Performance and design of AC machines - M G Say ELBS Edn.



HOD

Semester- IV Skill Course

Title: **Power Electronics**

Course Code: UETTS-401

Credits:02 Total Marks:100

Internal Examination: 20marks
40marks

End Semester Examination:

Duration: 2 hours

Syllabus Contents

Unit-1

- Power Devices: Need for semiconductor power devices, Power diodes, Enhancement of reverse blocking capacity, Introduction to family of thyristors.
- Silicon Controlled Rectifier (SCR): structure, I-V characteristics, Turn-On and Turn-Off characteristics, ratings, Factors affecting the characteristics/ratings of SCR, Gate-triggering circuits, Control circuits design and Protection circuits, Snubber circuit.
- Diac and Triac: Basic structure, working and V-I characteristic of, application of a Diac as a triggering device for a Triac. Insulated Gate Bipolar Transistors (IGBT): Basic structure, I-V Characteristics, switching characteristics, device limitations and safe operating area (SOA) etc.
- Application of SCR: SCR as a static switch, phase controlled rectification, single phase half wave, full wave and bridge rectifiers with inductive & non-inductive loads; AC voltage control using SCR and Triac as a switch. Power MOSFETs: operation modes, switching characteristics, power BJT.

Unit-2

- Power Inverters: Need for commutating circuits and their various types, d.c. link invertors, Parallel capacitor commutated invertors with and without reactive feedback and its analysis,
- Series Invertor, limitations and its improved versions, bridge invertors.
- Choppers: basic chopper circuit, types of choppers (Type A-D), step-down chopper, step-up chopper, operation of d.c. chopper circuits using self commutation (A & B-type commutating circuit), cathode pulse turn-off chopper(using class D commutation), load sensitive cathode pulse turn-off chopper (Jones Chopper), Morgan's chopper
- Electromechanical Machines: DC Motors, Basic understanding of field and armature, Principle of operation, EMF equation, Back EMF, Factors controlling motor speed, Thyristor based speed control of dc motors, AC motor (Induction Motor only), Rotor and stator, torque & speed of induction motor, Thyristor control of ac motors(block diagrams only)

References

- Power Electronics, P.C. Sen, TMH
- Power Electronics & Controls, S.K. Dutta
- Power Electronics, M.D. Singh & K.B. Khanchandani, TMH
- Power Electronics Circuits, Devices and Applications, 3rd Edition, M.H. Rashid, Pearson Education

Practical Semester- IV Skill Course

Title: Power Electronics Lab

Course Code: UETTS-402

Credits: 04

Total Marks: 50

Internal Examination: 10 marks

End Semester Examination: 40 marks

Duration: 2 hours

Syllabus Contents

1. Study of I-V characteristics of DIAC
2. Study of I-V characteristics of a TRIAC
3. Study of I-V characteristics of a SCR
4. SCR as a half wave and full wave rectifiers with R and RL loads
5. DC motor control using SCR.
6. DC motor control using TRIAC.
7. AC voltage controller using TRIAC with UJT triggering.
8. Study of parallel and bridge inverter.
9. Design of snubber circuit
10. VI Characteristic of MOSFET and IGBT (Both) 1
11. Study of chopper circuits

HOD

Department of Sanskrit

GOVT. COLLEGE FOR WOMEN, PARADE, JAMMU

Skill Paper for Sanskrit B.A. (Prog.)

SKILL ENHANCEMENT COURSE

CBCS, BACHELOR COURSE

SEMESTER-3rd

COURSE NO. : USATS -301

CREDIT : 04 {2+2}

TITLE : INDIAN THEATRE

THEORY EXAM: 50 marks

PRACTICAL EXAM: 50 marks

COURSE OBJECTIVES :

Objective of this course is to introduce principles and practices of Indian Theater to students.

COURSE LEARNING OUTCOMES :

After going through this course students will be able to know about several theoretical aspects of theatrical performance and production. They will become aware of the many types of theatres, their design and stage setting, acting, dress and makeup etc. Students also become familiar with the main principles of theatre performance and application.

THEORY PART

SECTION-A

UNIT-I

1. भारतीय रंगमंच की परंपरा एवं इतिहास .
2. भारतीय रंगमंच की उत्पत्ति एवं विकास
3. नाट्य की विषयवस्तु
4. अभिनय की परिभाषा एवं भेद

SECTION-B

UNIT-II

1. प्राचीन भारतीय देवप्रसाद रंगमंच तथा उन्मुक्त रंगमंच
2. आधुनिक रंगमंच तथा लोक रंगमंच
3. प्राकृतिक तथा राज्य स्तरीय रंगमंच .
4. भारतीय एवं पश्चात्य रंगमंच का तुलनात्मक अध्ययन

PRACTICAL PART

UNIT-III

1. पारंपरिक भारतीय नाटक
2. रचनात्मक अवधारणा एवं तत्व
3. मूक अभिनय
4. वेशभूषा रचना एवं चित्र

UNIT-IV

1. पारंपरिक भारतीय नृत्यकला
2. विभिन्न रंगमंच के चित्र
3. भारतीय रंगमंच तथा नाट्यशाला
4. भारतीय लोक नाट्य तथा मुखौटा



SCHEME FOR INTERNAL ASSESMENT TEST THEORY PART :

The question paper would comprise of five short answer type question of 2 marks each. Total marks for assignment test is 10.

SCHEME FOR END SEMESTER EXAMINATION FOR THEORY PART

External assessment of 40 marks will consist of three sections A, B and C.

Section A: will consist of two short answer type questions of 3 marks each. All are compulsory.

Section B: will consist of two medium answer type questions of 7 marks each. All are compulsory.

Section C: will consist of two long answer type questions of 10 marks each. Attempt any two questions out of four question.

SCHEME FOR END SEMESTER EXAMINATION FOR PRACTICAL PART

INTERNAL: 25 Marks

EXTERNAL: 25 Marks

Students are supposed to perform two Practical from each Unit (III and IV) .)

Internal:

(a) 20 percent attendance- (5 marks)

(d) 80 percent internal test (to be conducted by the class teacher) –(20 marks)

External:

(a) 60 percent for practical file –(15 marks)

(b) 40 percent for viva voce—(10 marks)



SUGGESTED READING

- 1) नाट्यशास्त्र भरतमुनि
- 2) राधावल्लभ त्रिपाठी, भारतीय नाट्यशास्त्र की परम्परा और विश्व रंगमंच, प्रतिभा प्रकाशन, दिल्ली।
- 3) संस्कृत नाट्यशाला - राम लखन शुक्ल, मानीलाल बनारसी द्वारा, नई दिल्ली।

References Books

1. Indian Theatre : Mulkraj Anand
2. Indian Theatre: Edited by Anandlal
3. Indian Theatre: Adya Rangacharya
4. Sanskrit Theatre: Bhat
5. Folk Theatre forms of India: Balavanth Gargi
6. Theory of Drama: A. Nicoll
7. Techniques of Acting : Ronold hayman
8. An Actor Prepare: Stanislavski



GOVT. COLLEGE FOR WOMEN, PARADE, JAMMU
Core Papers for Sanskrit B.A. (Prog.)
SKILL ENHANCEMENT COURSE- IV
CBCS, BACHELOR COURSE
SEMESTER-4TH

COURSE NO. :USATS-401

CREDIT : 04 {2+2}

TIME : 3 Hrs.

TITLE : BASIC ELEMENTS OF JYOTISHYA

THEORY EXAM: 50 marks

PRACTICAL EXAM: 50 marks

COURSE OBJECTIVES :

The main objective of course is to teach basic concepts of Jyotishya. Major content will be origin development and branches of Jyotishya. This will give elementary knowledge of Jyotishya.

COURSE LEARNING OUTCOMES :

The students will come to know the general introduction of Jyotishya Shastra-Hind System of Astrology. The students will be capable of analyzing astrological concepts and also the planetary influence.

THEORY PART

SECTION-A

UNIT-I

1. पंचांग का परिचय।
2. ज्योतिष की उत्पत्ति और विकास।
3. लघुजातकम् के लेखक "वाराहमिहिर" का परिचय।
4. लघुजातकम् के प्रथम अध्याय के श्लोकों का अनुवाद तथा व्याख्या



SECTION-B

UNIT-II

1. ज्योतिष की निम्नलिखित शाखाओं का सामान्य परिचय।
(i).सिद्धान्त (ii). संहिता (iii). होरा (iv). वास्तु
- 2.लघुजातकम् के द्वितीय अध्याय के श्लोको का अनुवाद तथा व्याख्या।
- 3.ज्योतिष की परिभाषा एवं उपयोगिता।
- 4.जन्मकुंडली का परिचय।

PRACTICAL PART

UNIT-III

1. नवांश-बोधक चक्र बनाएं तथा उसका वर्णन करें।
2. द्वादशांश-बोधक चक्र बनाएं तथा उसका वर्णन करें।
3. द्देषकाण बोधक चक्र बनाएं तथा उसका वर्णन करें।
4. होरा तथा त्रिंशांश बोधक चक्र बनाएं तथा उसका वर्णन करें।

UNIT-IV

- 1.नवग्रह दृष्टि बोधक चक्र बनाएं तथा उसका वर्णन करें।
2. भावादि बोधक चक्र बनाएं तथा उसका वर्णन करें।
3. कालपुरुष का अंगविभाग करें तथा उनका वर्णन करें।
4. वास्तुपुरुष बोधक चक्र बनाएं तथा उसका वर्णन करें।

SCHEME FOR INTERNAL ASSESMENT TEST THEORY PART :

The question paper would comprise of five short answer type question of 2 marks each. Total marks for assignment test is 10.

SCHEME FOR END SEMESTER EXAMINATION FOR THEORY PART

External assessment of 40 marks will consist of three sections A, B and C.

Section A: will consist of two short answer type questions of 3 marks each. All are compulsory.

Section B: will consist of two medium answer type questions of 7 marks each. All are compulsory.

Section C: will consist of two long answer type questions of 10 marks each. Attempt any two questions out of four question.

SCHEME FOR END SEMESTER EXAMINATION FOR PRACTICAL PART

INTERNAL: 25 Marks

EXTERNAL: 25 Marks

Students are supposed to perform two Practical from each Unit (III and IV)

Internal:

(a) 20 percent attendance- (5 marks)

(d) 80 percent internal test (to be conducted by the class teacher) –(20 marks)

External:

(a) 60 percent for practical file –(15 marks)

(b) 40 percent for viva voce—(10 marks)

References :

- 1) लघुजातकम्- आचार्य वाराहमिहिर, गर्ग प्रकाशन, मथुरा।
- 2) भारतीय ज्योतिष- नेमिचन्द्र शास्त्री, भारतीय ज्ञानपीठ प्रकाशन। 18
- 3) होरारत्नम -डॉ मुरलीधर चतुर्वेदी
- 4) लघु पाराशरी - डॉ सुरेशचंद्र मिश्र

Submitted by:-
Dr. Mamta Sharma
HoD Sanskrit
Date: 27-05-2022



DEPARTMENT OF PSYCHOLOGY

Detailed Syllabus for Examination to be held 2021 onwards

B.A Semester- III

Choice Based Credit System

Skill Enhancement

Title: Developing Emotional Competence

Course Code: UPSYTS-301

Theory Credits: 02

Duration of Examination: 3 Hours

Total Marks:50

Internal Marks: 10

External Marks: 40

Course Objectives and Learning Outcomes: After the completion of this course students will be able to-

- Be better equipped to deal with the emotional challenges of the workplace
- Develop understanding of emotional intelligence and its importance as skills to develop
- Learn to manage feelings and respond effectively to work with other people's emotion

Unit 1: Understanding Emotions & Physiology and Theories of Emotions

- (I) Nature; Characteristics; Components; Types and Expression of emotions.
- (II) Biological Basis of emotions
- (III) Theories of Emotions –James- Lange Theory, Cannon-Bard theory, Schachter-Singer Theory, Opponent-Process Theory.

Unit-2: Emotional Intelligence and emotional competencies

- (I) Nature; Characteristics; Components of emotional Intelligence
- (II) Application of emotional intelligence- in academics, workplace & relationship
- (III) Concept of Emotional Maturity; Technique to manage emotions

Reference:-

Morgan, C.T. et al (2004) Introduction to psychology (7th Ed) Tata Magro Hill Education

Ciccarelli, S.K. & Mayer, G.E. (2008) Psychology (South Asian Ed) New Delhi, Pearson

Baron, R.A. & Mishra, G.(2014) Psychology (Indian subcontinent Ed) Pearson Education Ltd

Jain, S. (2014) Introduction to Psychology, Kalyani Publication

Hay D.F. (2019) Emotional development from infancy to adolescence- Pathways to Emotional Competence and Emotional Problems: International Texts in Developmental Psychology (ed : Peter K. Smith). Routledge:Taylor and Francis Group, London & New York.

[file:///C:/Users/DELL/Downloads/Emotional%20development%20from%20infancy%20to%20adolescence%20pathways%20to%20emotional%20competence%20and%20emotional%20problems%20by%20Hay,%20Dale%20F%20\(z-lib.org\).pdf](file:///C:/Users/DELL/Downloads/Emotional%20development%20from%20infancy%20to%20adolescence%20pathways%20to%20emotional%20competence%20and%20emotional%20problems%20by%20Hay,%20Dale%20F%20(z-lib.org).pdf)

1 Rohn
2 Patam
3 Palak
4 Varaj

Rohn
HOD, Psychology



Credits: 02*

TOTAL MARKS: 50 Marks
INTERNAL: 25 Marks
EXTERNAL: 25 Marks

Course content: Practical shall be set as per the requirement of the theory syllabus/or as adopted in other practical courses

Evaluation strategy

A) Internal assessment

1. Internal assessment (25 marks) as per the adopted procedure of other courses.
2. Out of 25marks-
 - Attendance-5 marks
 - Viva voce-5 marks
 - Conduct of two psychology practical on three age group self, adolescence and adult. Practical to be conducted on the topic (a) Emotional Maturity (b) Emotional Intelligence Practical file for psychological test- 15marks

The eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses

B) External and semester examination

Maximum marks =25

Procedure of the external examination shall be same as is followed in other practical courses

1 Rdm
2 Potosm
3 Balak
4 vijay

Rdm

DEPARTMENT OF PSYCHOLOGY

Detailed Syllabus for Examination to be held 2021 onwards

B.A Semester- IV

Choice Based Credit System

Skill Enhancement

Title: Managing Stress



Course Code: UPSYTS-401

Theory Credits: 02

Duration of Examination: 3 Hours

Course Objectives and Learning Outcomes: After the completion of this course students will be able to-

Total Marks: 50

Internal Marks: 10

External Marks: 40

- Understand the biological psychological and environmental basis underlying stress
- Understand psychological and physiological hazards of stress
- Understand strategies to manage stress

Unit-1-Understanding Stress & Relation of Personality Types & Stress Experience

1. Nature; Characteristics of stress; Concept of Eustress & Distress; General Adaptation Syndrome Model
2. Sources and Types of Stress -Environmental, Psychological and Social
3. Stress & Personality type- Type A, Type B, Type C, Type D, and Type H, (Hardiness), Explanatory styles- Optimists and Pessimists

Unit-2 -Stress, Health and illness & Stress Coping Strategies

1. Impact of stress on health- Immune system(neuro-psycho immunology), Coronary Heart disease, Hypertension, Headaches, Ulcers and Irritable Bowel Syndrome
2. Stress and psychological illness -anxiety and depression
3. Types of coping -problem focused and emotion focused, stress-buffering hypothesis, diet, exercise, yoga, meditation.

Reference:-

Smith JC (2002) Stress management : A comprehensive Handbook of techniques and strategies, (1st Ed) Springer Publishing Company

Morgan, C.T. et al (2004) Introduction to psychology (7th Ed) Tata Magro Hill Education

Ciccarelli, S.K. & Mayer, G.E. (2008) Psychology (South Asian Ed) New Delhi, Pearson

Baron, R.A. & Mishra, G. (2014) Psychology (Indian subcontinent Ed) Pearson Education Ltd

Jain, S. (2014) Introduction to Psychology, Kalyani Publication

1. Rohan
2. Pooja
3. Parvati
4. Vidy

Rohan



Credits: 02*

TOTAL MARKS: 50 Marks
INTERNAL: 25 Marks
EXTERNAL: 25 Marks

Course content: Practical shall be set as per the requirement of the theory syllabus/or as adopted in other practical courses

Evaluation strategy

o Internal assessment

- Internal assessment (25 marks) as per the adopted procedure of other courses.
- Out of 25marks-
 - Attendance-5 marks
 - Viva voce-5 marks
 - Conduct of two psychology practical on three age group self, adolescence and adult. Practical to be conducted on the topic (a) Anxiety Depression Stress Scale(ADSS) (b) Coping with stress questionnaire. Practical file for psychological test- 15marks

The eligibility criterion for appearing in the end semester examination shall remain the same as is followed in other courses

o External and semester examination

Maximum marks =25

Procedure of the external examination shall be same as is followed in other practical courses

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BOTANY (Semester III)

(For examination to be held in 2021, 2022, 2023)

Skill enhancement course**Title: Mushroom cultivation technology (theory)**

Course code UBOTS-301

Credits:- 2

Total marks 50 (external =40 Internal =10)

Unit-1. Substrate and cultivation

- 1.1 Introduction to mushrooms, characteristics, nutritional and pharmaceutical importance of commercially important edible mushrooms. Poisonous mushrooms- distinguishing characteristics
- 1.2 Substrate preparation: Basic requirements, General nutritional enrichments required for growth of mushrooms, composting technique and types.
- 1.3 Spawn production technology
- 1.4 Cultivation of *Agraricus bisporus*, *Volvariella volvacea*, *Pleurotus citrinopileatus*

Unit-2. Storage, diseases, research and future prospects

- 2.1 Shelf life of mushrooms, methods for short- and long-term storage of mushrooms.
- 2.2 Diseases, infections, and pests of mushrooms (Pre and Post harvest)
- 2.3 Prospects for mushroom cultivation in Jammu and Kashmir
- 2.4 Mushroom Research centres: National, regional and local levels.

Suggested books

1. Marimuthu, T. Krishnamoorthy, A.S. Sivaprakasam, K. and Jayarajan. R (1991) Oyster Mushrooms, Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore.
2. Swaminathan, M. (1990) Food and Nutrition. Bapco, The Bangalore Printing and Publishing Co. Ltd., No. 88, Mysore Road, Bangalore - 560018.
3. Tewari, Pankaj Kapoor, S.C., (1988). Mushroom cultivation, Mittal Publications, Delhi.
4. Nita Bahl (1984-1988) Hand book of Mushrooms, II Edition, Vol. I & Vol. II.
5. I. Suman, B. C., & Sharma, V. P. (2007). Mushroom cultivation in India. Daya Books.
6. Diamantopoulou, P., & Philippoussis, A. (2015). Cultivated mushrooms: preservation and processing. Handbook of vegetable preservation and processing, 495-525.
7. Ravinder Singh R. & Salathia, I. (2020). Mushroom Cultivation and its Diseases. Sankalp Publication
8. Kumaresan, V. (2018). Mushroom Cultivation. Saras Publication.
9. Gogoi, R., Rathaiah, Y., Borah, T.R. (2006). Mushroom Cultivation Technology. Scientific Publishers Journals Dept.



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BOTANY (Semester III)
 (For examination to be held in 2021, 2022, 2023)
 (Skill Enhancement Course)
Mushroom cultivation technology (Practicals)

UBOTS:-302

Credits: 02

External Examination: 25 marks

Internal Examination: 25 Marks

Duration of Exam: 3hrs

Maximum marks: 50

1. To study the morphology of different types of edible mushrooms from museum specimens. (*Volvariella volvoceo*, *Pleurotus citrinopileatus*, *Calocybe indica*, *Agaricusbisporus*, and *Morchella*).
2. To study the different types of poisonous mushrooms from the museum specimens (preferably local).
3. To acquaint the students about the equipment and instruments (Polythene bags, Vessels, Inoculation hook, Inoculation loop, stove, sieves, culture racks, water sprayers, trays and autoclave) required in the process of cultivation of mushrooms.
4. To demonstrate the method for preparing compost for the cultivation of button mushroom.
5. To inoculate the compost with spores of *Agaricus* sp. for its cultivation.
6. To demonstrate the method of preparation of substrate (Wheat/ Paddy) for *Pleurotus* cultivation.
7. To familiarise the students about some insect pests, nematodes and animal pests of Mushrooms from figures or preserved specimens.
8. To understand the principles of gradation of mushrooms on the basis of quality.
9. To learn the technique of packaging of mushrooms on the basis of quality.
10. To familiarise the students with the optimum conditions of temperature, humidity, light etc for cultivation of mushrooms.
11. Field trip to commercial mushroom farms and research centers.

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Note for the distribution of 50 marks in practical Examination:

Internal Assessment= 25 marks

Day to Day performance in the laboratory: 12 marks.

Test: 8 marks

Regularity of Attendance: 5 marks

External Examination: 25 marks

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BOTANY (Semester-IV)
(For examination to be held in 2021, 2022, 2023)

Skill enhancement course

Title: Nursery, gardening and floriculture (Theory)

Course outcomes: Upon completing this course, students should know the basic steps in setting up a nursery, garden, or a floriculture setup. The course aims to teach students how to choose the right propagation method and how to handle seeds, bulbs, cut flowers, nursery plants, and potted plants properly. Their skills should include recognizing commercial flowers and their packaging. Also, they should know how to diagnose diseases and pest along with their management. In addition, this course aims to equip students with the skills needed to operate a wholesale nursery as well as an understanding of nursery business management .

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BOTANY (Semester-IV)
(For examination to be held in 2021, 2022, 2023)

Skill enhancement course

Title: Nursery, gardening and floriculture (Theory)

Course code:-UBOTS:-401

Credits :- 2

Total marks 50 (external =40 Internal =10)

UNIT-1. Introduction to nursery and gardening

- 1.1. Nursery: Definition and types of nurseries, resources for nurseries, and important nursery operations
- 1.2. Definition and components of gardens, types of gardening (landscape and home gardening) and gardening operations (soil laying, manuring and watering).
- 1.3. Plant propagation methods: sexual methods (through seed germination), and asexual methods (vegetative propagation)
- 1.4. Essential nutrient management for nursery and gardening, pest and disease management and water management systems.

UNIT- 2. Floriculture

- 2.1. Concept and scope of floriculture, factors affecting flower production, packaging of cut flowers; methods to prolong vase life of flowers
- 2.2. Names and methods of locally grown ornamental flowers
- 2.3. Concept of potting, repotting, depotting and mulching
- 2.4. Packing, transport, and marketing of nursery plants

Suggested reading

1. Floriculture in India by G. S. Randhawa, Amitabha Mukhopadhyay. Allied Publishers Pvt Ltd (1986)
2. Plant propagation: Principles and Practices by Hartman H.T. Prentice Hall International: London, 1959.
3. Encyclopedia of Gardening by Christopher Brukell. Dorling Kindersley, Ltd, 2007.
4. Propagation Hand Book; Basic Techniques for Gardners by Geoff Bryant. Mechanicsburg, PA, US; Stackpole Books, 1995.
5. Horticulture, Principles and Practices by George Acquaah. 4th edition, Pearson Publishers, Prentice Hall, 2009.
6. Gardening in India by Bose, T. K and Mukerjee, D. New Delhi Oxford & IBH Pub. Co. Pvt. Ltd, 1977.
7. Textbook of Horticulture by Mani Bhushan Rao. Macmillan India Ltd. 2005 (2nd edition).

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8. Introduction to Horticulture by Kumar, N. 7th edition, Oxford & IBH Publishing Company Pvt. Ltd. 2010.
9. Introduction to Ornamental Horticulture by J. S. Arora, 1999. Kalyani Publishers, Ludhiana, India.
10. Plant Propagation by Sandhu M. K. New Age International Publishers Ltd. 1989.
11. Ornamental Plants and Garden Design in Tropics and Subtropics (Vol 1 & 2) by T. K. Bose, L. J. Singh, M. K. Sandhu and T. K. Maity. Publisher: Daya Publishing House; A division of Astral International Pvt. Ltd. 2015.

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BOTANY (semester IV)
(For examination to be held in 2021, 2022, 2023)
(Skill Enhancement Course)

Nursery, gardening, and floriculture (Practicals)

UBOTS:-402

Credits: 02

External Examination: 25 marks

Internal Examination: 25 Marks

Duration of Exam: 3hrs

Maximum marks: 50

1. To study seed structure, viability test, and treatments to overcome seed dormancy.
2. To learn different asexual plan propagation methods (propagation by bulbs, tubers, corms).
3. To study the basic components of a greenhouse.
4. To learn the different methods of pruning.
5. To learn the methods to prepare a lawn bed using local grasses.
6. To study the steps to prepare seeding beds for nursery production.
7. To identify the ornamental plants for lawns, gardens, houses (indoors, outdoors).
8. Identify the locally grown flowering crops and the methods used to cultivate them.
9. To prepare different types of manures.
10. Visit to some commercially and aesthetically important gardens of Jammu and Kashmir.

Note for the distribution of 50 marks in practical Examination:

Internal Assessment 25 marks

Day to Day performance in the laboratory: 12 marks.

Test: 8 marks

Regularity of Attendance: 5 marks

External Examination: 25 marks

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ENVIRONMENTAL SCIENCES.

Sem III & IV

Practical Course.

**Govt. College for Women,
Parade Ground, Jammu
Autonomous College under University of Jammu**



Skill Enhancement Courses in Environmental sciences

Semester III

Title: Solid Waste Management

Course number: UESTS 301

Credits: 2

Time of Examination: 2 hours.

Maximum marks:40

Sessional Assessment:10

COURSE OBJECTIVES:

The objective of this course is to acquaint the students with the growing menace of solid waste. This course will help students to understand about varied sources of solid waste generation, their effect on life and ecosystem. Students will have an understanding about various methods of solid waste disposal and conversion of solid waste into useful entities.

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COURSE LEARNING OUTCOMES:

Upon successful completion of this course, the students will be able to

- .Understand how excessive waste generation has become a major environmental menace
- .Understand the various sources of solid waste generation
- .Understand the impact of improper solid waste management on life and ecosystem
- .Methods of solid waste management

Unit 1 Basic Concepts and Management Practices

- 1.1** Solid waste: Definition and concept
- 1.2** Sources and classification of Solid Waste
- 1.3** Factors affecting the generation of Solid Waste
- 1.4** Municipal Solid Waste (Management and handling) Rules, 2016
- 1.5** Impact of solid waste on Environment, human and plant health
- 1.6** Management MSW-biodegradable waste

a) Composting

b) Vermicomposting

c) Farmyard Manure

d) Biogas Production

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1.7 Management of MSW-non biodegradable waste

a) Sanitary Landfills

b) Incineration

c) Pyrolysis

d) Gasification

Unit 2 : Solid waste collection and processing techniques

- 2.1 Handling and segregation of solid waste at source and methods of separation
- 2.2 Solid waste reduction technique-Reuse and recycle
- 2.3 Collection of solid waste
- 2.4 Transfer and transportation of solid waste
- 2.5 Solid waste processing
methods(storage,conveying,compacting,shredding,pulping,granulating etc.
- 2.6 Management of e-waste
- 2.7 Site selection and siting criteria for sanitary landfills

Literature Recommended:

1. Anonymous (2014). Waste to resources- A waste management Handbook. The Energy and Resources Institute (TERI) New Delhi. www.teriin.org.

2. Bhatia S.C.(2007), Solid and hazardous waste management ,Atlantic Publishers and Distributions(P). New Delhi

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3. Khan, I. H. and Ahsan, N.(2011) Textbook of Solid Waste Mangement.CBS Publishers, New Delhi

4. Mishra, S.G. and Mani D.(1993). Pollution through solid waste. Ashok Publishing House, New Delhi.

5. Tchobanoglous, G.andKreith, F.(2002).Handbook of Solid Waste Management: Mc Graw Hill Handbooks, Newyork

6. Zhu,D; Asnani, P.U.; Zurbrigg,C; Anapolsky,S and Mani,S.(2008).Improving solid waste management in India.The world Bank Washington D.C.www.worldbank.org. Note: II.

Note for Theory Paper setter

A. External Assessment

Theory Question paper will consist of THREE sections 'A', 'B' and 'C'. Section 'A' will consist of 4 short answer type questions of 2 marks each, two questions from each unit. All the questions would be compulsory. Candidate has to restrict the answers in 70 to 80 words. Section 'B' will consist of 4 medium answer type questions of 5 marks each, two question from each unit of prescribed course content. All the questions would be compulsory. Candidate has to restrict the answers in 250 to 300 words. Section 'C' will consist of 2 or 3 long answer type questions of 12 marks each out of which candidates have to attempt only ONE . Candidate has to restrict the answers in 500 to 600 words.

b. Internal assessment test in theory course of SOLID WASTE MANAGEMENT would be of 10 marks, based on questions from syllabus.

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12. Field visit to plastic recycling unit or any other recycling unit.

13. Construction and working of Incinerators/biogas plants



14. Site selection and siting criteria for sanitary landfills in your area

NOTE FOR PRACTICAL COURSE

Practicals are meant to give field experience /hands on training to manage solid waste efficiently. Daily assessment and attendance record of students would be maintained and students would be evaluated internally out of 50 marks at the end of semester according to following scheme:

- a. Attendance-5 marks
(Below 75%-zero, 75-80%-4 marks, 80-85%-6marks, 85-90%-8marks and above 90%-10 marks)
- b. Day to day performance-25 marks
- c. End semester practical test-10 marks
- d. Viva-voce-10 marks

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**Govt. College for Women,
Parade Ground, Jammu
Autonomous College under University of Jammu**



Semester IV

Title: ENVIRONMENTAL IMPACT ASSESSMENT

Course number: UESTS 401

Credits: 2

Time of examination: 2hours

Max. Marks-40

Sessional Assessment-10

Course Objective:The objective of this course is to provide a working knowledge of current environmental impacts related to development activities, methods relating to EIA, and consider in detail how these impacts can be quantified and analysed.

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Course Learning Outcomes: Upon successful completion of this course, the students will be able to:



- Comprehensively understand of the origin and development of EIA and the developments in India
- Predict the kind of changes that might occur with human activities.
- Understand process and methods of environmental impact assessment
- critique environmental impact statements effectively
- apply knowledge to new situations.

Unit 1 EIA: General introduction

1.1 EIA: Concept and historical background

1.2 General Process of EIA

1.3 Environmental Impacts to be considered in EIA process and their types

1.4 Prediction and assessment of various environmental impacts

1.5 EIA notification-2006,2010

1.6 Environmental Impact Statement

1.7 People's participation in EIA

Unit 2 EIA Methodologies: Types, Advantages and Disadvantages

2.1 Adhoc and Checklist method

2.2 Matrix method

2.3 Cost benefit analysis

2.4 Network and Modelling methods

2.5 Overlays method

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- 2.6 Environmental Audit
- 2.7 Reviewing of EIA/EIS



Literature Recommended:

1. Anjancylu, Y.(2002),Environmental Impact Assessment Methodologies.BSP BS Publications, Hyderabad.
2. Shukla S.K and Shrivastav P.R (1992).Concepts in Environmental Impact analysis. Commonwealth Publishers, New Delhi
3. Shukla S.K and ShrivastavP.R.(1992). Methodology of Environmental Monitoring and Assessment. Commonwealth Publishers, New Delhi.
4. Srivastav A.K (2011).Environmental Impact Assessment. A.P.H. Publishing Corporation New Delhi.
5. Trivedi P.R (2009), Environmental Impact Assessment. A.P.H. Publishing Corporation, New Delhi.
6. VankhedeG .(2012),Environmental Impact Assessment. Biotech Books New Delhi.
7. www.envfor.nic.in/divisions/iass/eia/Cover.htm

Note for Theory Paper setter

A. External Examination

Theory Question paper will consist of THREE sections 'A', 'B' and 'C'. Section 'A' will consist of 4 short answer type questions of 2 marks each, two questions from each unit. All the questions would be compulsory. Candidate has to restrict the answers in 70 to 80 words. Section 'B' will consist of 4 medium answer type questions of 5 marks each, two question from each unit of prescribed course content. All the questions would be compulsory. Candidate has to restrict the answers in 250 to 300 words. Section 'C' will consist of 2 or 3 long answer type questions of

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12marks each out of which candidates have to attempt only ONE . Candidate has to restrict the answers in 500 to 600 words.

B .InternalAssessment

Internal assessment test in theory course ofEIA would be of 10 marks, based on questions from syllabus.

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SEMESTER-IV

LAB COURSE FOR SKILL ENHANCEMENT IN ENVIRONMENTAL SCIENCES

(Internal Evaluation)

Title: Laboratory Course

Course No: UESPS 402

Duration of Examination : 3.0 hrs

Credit:2

Marks: 50

List of practicals

1. Documentation of any environmentally sensitive /important area of your locality
2. Rapid Environmental Assessment checklists (REA) of proposed project
3. To study baseline data collection for EIA.
4. Preparation of EIA flowchart for any project that can be undertaken in respective areas
5. To study the impacts of any two developmental projects (Mining/industries/Transport sector/Hydroelectric project) by:
 - a. Checklist method

Dr. P. K. S.

- b. Adhoc method
 - c. Matrix method
6. Preparation of an alternate plan for the same
 7. Study of a major hydroelectric project in Jammu and Kashmir
 8. To study the EMP of any two developmental projects.
(Mining/industries/Transport sector/Hydroelectric project)
 9. Rehabilitation plan of small project
 10. Mitigation measures of any area specific project

Note for Practical Course

Practicals would be conducted to give field experience/trainings to the students for conducting EIA. Daily assessment record and attendance of the students would be maintained and each student would be evaluated (INTERNALLY) out of 50 marks at the end of the semester as per the following weightage



- a. Attendance – 5 marks
(Below 75% -Zero, 75-80%-4 marks, 80-85%- 6 marks, 85- 90% -8 marks and above 90% -10 marks).
- b. Day to day performance-25 marks
- c. End semester practical test-10 marks
- d. Viva-voce-10 marks

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**GOVT. COLLEGE FOR WOMEN, PARADE GROUND JAMMU
(AN AUTONOMOUS COLLEGE)**

**Syllabus and Course of Study in Zoology – B.SC. Semester-III
For examinations to be held in 2021-22, 2022-23, 2023-24**

- **Course Title: Apiculture (Theory)**
- **Credits: 02**
- **Course Code/No: UZOTS-30**
- **Max. Marks 50 (Internal 10, External 40)**

Course Learning Objective: Apiculture is the scientific method of rearing honeybees for the production of honey and its by-products. Honey bees are not only economically important but they are ecologically fascinating creature. Bee keeping is popular in rural areas as it provide a good source of income. The number of apiculturists is also increasing in urban areas keeping in view number of benefits of beekeeping. This course gives a framework for understanding different species, race and castes of honey bee. The aim of this course is to understand different aspects of this economically and ecologically important creature. This course has two units, first unit provides elaborate knowledge about biology of bees, rearing of honey bees, bee enemies and their management. Whereas second unit impart knowledge about importance of honey and other by-products of bee keeping industry and its economics. After completion of this course the learner will have understanding of all aspects of beekeeping and its marketing enabling them to earn a dignified livelihood and a source of self-employment.

Course Learning Outcome: On completion of the course student will be able to;

1. Understand the Biology of honey bees and selection criteria of bee species for apiculture.
2. Understand different steps of processing and extraction of honey and other bee products
3. Understand about construction and maintenance of bee hive and bee behaviour
4. Understand the socio-economical, medicinal and industrial value of honey and other by-products of apiculture.
5. Understand different types of diseases, their management and general enemies of honeybees
6. Understand about different aspects of bee economy and entrepreneurship development in apiculture.

Unit 1: Biology of Bees, Beekeeping, Bee enemies and Diseases (15 hrs.)

- 1.1- History and scope of beekeeping in India with special reference to J & K, Identification of different species of honey bees (*Apis indica*, *Apis dorsata*, *Apis florea*, *Apis mellifera*)
- 1.2- Morphology of honey bee, life cycle and social organization in bees.
- 1.3- Bee keeping: Traditional and modern bee hives (Newton and Langstroth bee hives), Bee keeping equipments.
- 1.4- Diseases: Bacterial, viral and fungal diseases and their control measures, Bee enemies: (Ants, wasps, wax moth) and their control measure

Unit 2: Bee economy and Entrepreneurship in Apiculture (15hrs.)

- 2.1- Bee keeping industry in India and J & K, and its prospects.
- 2.2- Products of apiculture industry and its uses (Honey, Bee wax, Propolis, Bee venom, royal jelly)
- 2.3- Honey extraction methods, composition and medicinal value of honey.
- 2.4- Preparing bankable bee keeping project and proposal for financial assistance from funding agencies.

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GOVT. COLLEGE FOR WOMEN, PARADE GROUND JAMMU
(AN AUTONOMOUS COLLEGE)



Syllabus and Course of Study in Zoology – B.SC. Semester-III
For examinations to be held in 2021-22, 2022-23, 2023-24

- Course Title: Apiculture (Practical)
- Credits: 02
- Course Code/No: UZOTS-302
- Maximum Marks:50
- External Examination: 25 marks
- Internal Examination: 25marks

1. Identification, classification and morphology of common species and castes of honey bee (*Apis indica*, *Apis dorsata*, *Apis florea*, *Apis mellifera*).
2. Study of life cycle of honeybee.
3. Study of mouth parts and appendages from permanent slides/ microphotographs.
4. Study of sting apparatus and venom sac from permanent slides/ microphotographs.
5. Study of different type of bee hives (Newton, Langstroth and some traditional hives).
6. Study of Queen cells, Drone cells and worker cells in a hive.
7. Study of different type of bee equipment.
8. Study of bee enemies and their control measures.
9. Inspection of bee hive in your vicinity and submission of report (Field visit report)
10. Identification of different apiculture by-products (Honey, wax, bee venom, bee propolis, bee pollen, royal jelly).
11. Study of bee pasturage (identify and enlist bee forage plants).
12. Prepare flowering calendar of local area as a source of bee pasturage.
13. Study of climatic requirements of different species of honeybees.
14. Preparation of budget proposal for establishing a new apiary (small and large)

NOTE: Scheme for internal assessment and external examination of apiculture theory course (02-credit)

• Distribution of marks for theory examination

Examination (Theory)	Syllabus to be covered in the examination	Time allotted	% Weightage (Marks)
Internal Assessment Test	On completion of 50% Syllabus	1/2Hour (30 min.)	20 % = (10 Marks)
External End Semester/ Examination	100 % Syllabus	02 Hour	80% = (40 Marks)
Total Theory Marks			50 Marks

- **Scheme for Internal assessment Test (Theory)** Internal assessment test of 10 marks to be based on questions from syllabus.
- **Scheme for End Semester Examination** External assessment of 40 marks will consist of three sections A, B and C. **Section A** will consist of 04 short answer type questions, two from each unit of 02 marks each, (04x02=08, **All compulsory**). **Section B** consists of 04 questions of 05 marks each, 02 from each unit, (04x05=20, **All compulsory**). **Section C** comprises of 03 questions of 12 marks each, (01 question to be attempted, 01x12=12) 1.5 questions shall be set from each unit of the prescribed course content.



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**GOVT. COLLEGE FOR WOMEN, PARADE GROUND JAMMU
(AN AUTONOMOUS COLLEGE)**

**Syllabus and Course of Study in Zoology – B.SC. Semester-III
For examinations to be held in 2021-22, 2022-23, 2023-24**

SCHEME FOR INTERNAL ASSESSMENT AND EXTERNAL EXAMINATION OF APICULTURE
PRACTICAL (SEC) COURSE (02- CREDIT)

DISTRIBUTION OF MARKS FOR PRACTICAL EXAMINATION

S. No	Examination (Practical)	Syllabus to be covered	Time allotted	% weightage (Marks)
A	Internal Practical Assessment Test	Daily evaluation of practical records/viva-voce/ attendance, etc.	03 Hrs.	Attendance: 05 Marks
				Practical Test: 08 Marks
				Day to day performance: 12 Marks
				Total: 25 Marks
B	External Practical Examination	External Examination (100% Practical syllabus)	03 Hrs.	Examination: 20 Marks
				Viva-voce: 05 Marks
				Total: 25 Marks

Teaching Learning Process (TLP): Teaching learning process will include delivery of lectures using boards, multimedia presentations, and short documentaries on apiculture, imparting practical based knowledge through slides, charts, models, specimen along with other TLE. Live demonstrations of bee hives and study of bee pasturage in surrounding is an important aspect of TLP.

Assessment method: Course examination methods includes

- Multiple choice questions quiz at the end of each lecture
- Case studies
- Oral presentations by students
- Project based activities and submission of report for the same
- Group discussions
- Unit tests/ internal assessment for theory and practical

Books Recommended:

1. Singh S., Beekeeping in India, Indian Council of Agriculture Research (ICAR) NewDelhi.
2. Prost, P.J.1962. Apiculture. Oxford and IBH, NewDelhi.
3. Bisht D.S., Apiculture ICAR Publication.
4. Dewey M. Caron, 2013. Honey Bee Biology and Beekeeping, Revised Edition. Wicwas Press, Kalamazoo.
5. Pradip V Jabde, 1993. Text Book of Applied Zoology: Vermiculture, Apiculture, Sericulture, Lac Culture, Agricultural Pests and their controls. Discovery Publishing House, NewDelhi.
6. Eva Crane, 1999. The World History of Beekeeping and Honey Hunting. Routledge,India
7. TedHooper,2010.GuidetoBeesandHoney:TheWorld'sBestSellingGuidetoBeekeepingNorth en Bee Books, Oxford.
8. Laidlaw, H.H., 1997. Contemporary queen rearing. Published by Dadant and Sons. R.A. Morse, Rearing queen honey bees. Wicwas Press,NY.
9. Allison Benjamin, By (author) Brian McCallum, 2008. Keeping Bees and Making Honey. David and Charles, NewtonAbbot.
10. Kim Pezza, 2013. Backyard Farming: Keeping Honey Bees: From Hive Management to Honey Harvesting and More. Hatherleigh Press,U.S.5

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GOVT. COLLEGE FOR WOMEN, PARADE GROUND JAMMU
(AN AUTONOMOUS COLLEGE)



Syllabus and Course of Study in Zoology – B.SC. Semester-III
For examinations to be held in 2021-22, 2022-23, 2023-24

11. Kim Flottum, 2014. The Backyard Beekeeper: An Absolute Beginner's Guide to Keeping Bees in Your Yard and Garden, Quarry Books.

12. Roger A. Morse, Kim Flottum, 1998. Honey Bee Pests, Predators and Diseases. Wicwas Pr; 3rd edition.

13. Alethea Morrison (Author), Mars Vilaubi (Photographer), 2013. Homegrown Honey Bees: An Absolute Beginner's Guide to Beekeeping Your First Year, from Hiving to Honey Harvest. Storey Publishing, LLC: 1 Edition

14. Hunt, G.J., 2000. Using honey bees in pollination Purdue University.

15. Craig Hughes, 2010. Urban Beekeeping: A Guide to keeping Bees in the City. E Good Life Press, Preston.

16. Ted Hooper, Clive De Bruyn, Margaret Thomas, 2014. The Beginner's Bee Book. Stenlake Publishing, Ayrshire.

• **Reference for Practical**

- David Cramp, 2012. The Complete step-by-step Book of Beekeeping: A Practical Guide to Beekeeping from setting up a colony to Hive Management and Harvesting the Honey. Lorenz Books. London
- David Cramp, 2009. A Practical Manual of Beekeeping: How to keep Bees and Develop Your Full Potential as Apiarist. Spring Hill London.
- Ted Hooper, 2010. Guide to Bees and Honey: The world's Bestselling Guide to Beekeeping. Northern Bee Books, Oxford. 8



Semester – IV

Skill Enhancement Course

Value Based and Practical Oriented Courses,

Indian Music(Hindustani) Vocal and Instrumental (Sitar)

Examination to be held in Dec. 2018, 2019 and 2020

Course Code- UMUPS403

Credits: - 4

Max. Marks-100

Internal Assessment: 50

External Assessment: 50

NOTE:- Number of students in each practical class group

(Vocal:- 15 & Instrumental:-10)

- ◇ Basics technique of Harmonium Playing.
- ◇ Formation (singing and playing of Alankars (Harmonium and Sitar) in different thaats.
- ◇ Attending music concerts, Listening of Radio and T.V. programmes/Sangeet Sammelans/National Programmes of Music/Documentation of music materials and therefore Submission of report of the same.
- ◇ Ability to play and sing of National Anthem and any folk song on Harmonium/sitar and writing of notation in Bhatkhande notation system

Prerna
27/05/2022



Skill Enhancement Course
Value Based and Practical Oriented Courses.
Indian Music(Hindustani) Vocal and Instrumental (Sitar)
Examination to be held in Dec. 2017, 2018, 2019

Course Code- UMUPS303
Credits: - 4
Internal Assessment: 50

Max. Marks-100
External Assessment: 50

NOTE:- Number of students in each practical class group

(Vocal=15 & Instrumental=10)

- ❖ Understanding various parts of Tanpura/sitar with the help of preparing their sketch and technique of tuning.
- ❖ Formation (singing and playing) of Alankars of shudh swaras only.
Knowledge of different Bolas of Mizrab for Sitar students.
- ❖ Preparing Presentation on the life and contribution of any one musician.
- ❖ Presentation of Vocal and Instrumental (sitar) in group/individual such as folk music/light music/classical Raag based on film song/Patriotic songs.

Bhawan
27/05/2022

Semester – V

Skill Enhancement Course

Value Based and Practical Oriented Courses.

Indian Music(Hindustani) Vocal and Instrumental (Sitar)

Examination to be held in Dec. 2019, 2020, 2021

Course Code- UMUPS503

Credits: - 4

Max. Marks-100

Internal Assessment: 50

External Assessment: 50

NOTE:- Number of students in each practical class group

(Vocal=15 & Instrumental=10)

- ❖ **Playing/Singing of composition based on Raag Yaman/Bhairav**
- ❖ **on Harmonium/Sitar.**
- ❖ **Play Alankars in Kalyan and Bhairav Thaata(Five Each)**
- ❖ **Presentation of Dogri Folk/Patriotic song in group.**
- ❖ **Play of any Patriotic song**
- ❖ **Preparing a Presentation on any one of the following.**
 - i) **Folk song of Jammu Region**
 - ii) **Folk Artists of Jammu Region.**
 - iii) **Artists of Indian Classical Music of Jammu Region.**
 - iv) **Music concerts, festivals and folk festivals of Jammu Region.**
- ❖ **Field visit to Doordarshan/Radio station for knowledge of Recording Technique/Visit to J&K Academy of Art culture & Language OR other such institutions Relevant to the study and Demonstration of Music Material and there after submission of Report based on this visit.**



Semester – VI

Skill Enhancement Course

Value Based and Practical Oriental Courses.

Indian Music(Hindustani) Vocal and Instrumental (Sitar)

Examination to be held in Dec. 2019, 2020, 2021

Credits: - 4

Max. Marks-100

Course Code- UMUPS603

Internal-I: 50 Marks

Internal Final: 50 Marks

NOTE:- Number of students in each practical class group

(Vocal=15 & Instrumental=10)

- ❖ Playing/Singing of composition based on Raag Yaman/Bhairav on Harmonium/Sitar.
- ❖ Play Alankars in Kalyan and Bhairav Thaats (Five Each)
- ❖ Presentation of Dogri Folk/Patriotic song in group.
- ❖ Play of any Patriotic song
- ❖ Preparing a Presentation on any one of the following.
 - i) Folk song of Jammu Region
 - ii) Folk Artists of Jammu Region.
 - iii) Artists of Indian Classical Music of Jammu Region.
 - iv) Music concerts, festivals and folk festivals of Jammu Region.
- ❖ Field visit to Doordarshan/Radio station for knowledge of Recording Technique/Visit to J&K Academy of Art culture & Language OR other such institutions Relevant to the study and Demonstration of Music Material and there after submission of Report based on this visit.



**ICT based
Teaching-Learning
Initiative**

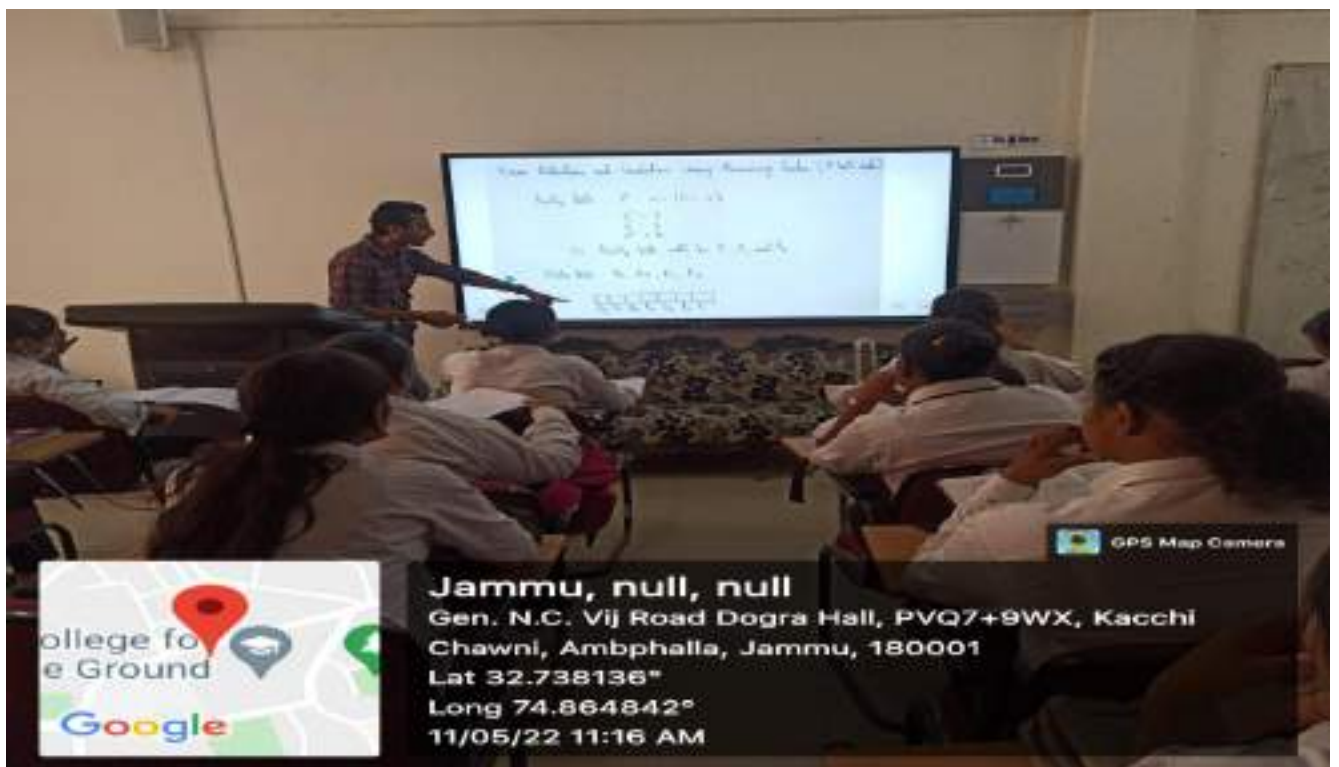
1. SMART CLASS ROOMS



[Smart Classrooms | GCW Parade Ground Jammu](#)







2. BROWSING CENTRES



[Browsing Centre | GCW Parade Ground Jammu](#)





Jammu, null, null
Gurdwara Sunder Singh Road Near Raghunath Temple
Jammu Jammu and Kashmir, Pakki Dhaki, Jammu,
180001
Lat 32.737064°
Long 74.865574°
23/05/22 01:57 PM



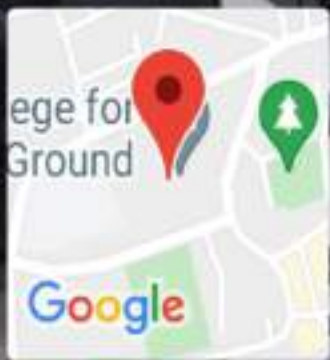
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Jammu Jammu and Kashmir, Pakki Dhaki, Jammu, 180001
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23/05/22 01:58 PM

3. VIRTUAL LAB



[Virtual Lab | GCW Parade Ground Jammu](#)





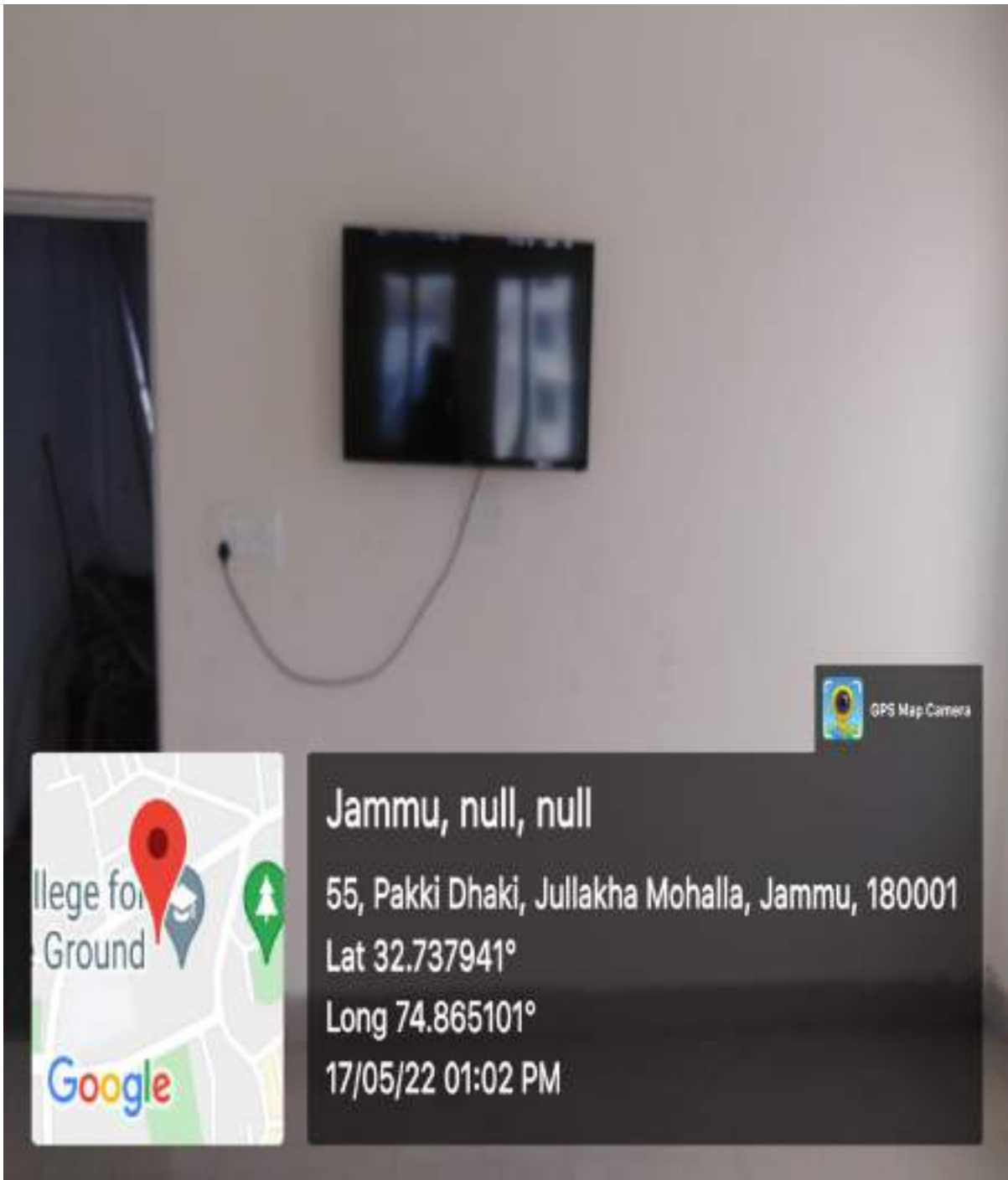
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Women College, Pared Ground, PVQ8+367, Pakki
Dhaki, Jammu, 180001
Lat 32.737655°
Long 74.865372°
17/05/22 12:53 PM

4. EDUSAT AND SWAYAM PRABHA



EduSat | GCW Parade Ground Jammu





GPS Map Camera



Jammu, null, null

55, Pakki Dhaki, Jullakha Mohalla, Jammu, 180001

Lat 32.737941°

Long 74.865101°

17/05/22 01:02 PM

5. COMMUNITY RADIO CENTRE

The screenshot shows the website for Govt. College for Women, Parade Ground, Jammu. The header includes the college logo, name, and an 'Administrative Login' button. A navigation menu lists: HOME, ADMINISTRATION, CAMPUS, ACADEMICS, ACTIVITIES, LIBRARY, SCHOLARSHIPS, IQAI, ALUMNAE, CONTACT US, and ABOUT GCWF. The main content area is titled 'Community Radio Centre' and contains a paragraph: 'Community Radio Centre was conceptualized by the department of Home Science with an aim to create an objective broadcast to highlight social issues and causes. A rural grade CRC was established in the basement of PG Department of Home Science with the idea to encourage communication and employment. The opportunities generated as a result of the Human Resource Development includes occasional training as Producer, Content writer, Anchorist, Radio jockey and singer, etc.' Below the text are social media icons for Facebook, Twitter, and YouTube. The footer contains sections for 'REPORTS' (with a link to AQAR 2019-20), 'Contact Us' (address: Opposite Parade Ground, Old Jammu City, Jammu and Kashmir, UT, 180001, India), 'WEATHER' (JAMMU WEATHER), and 'Reach Us'.







6. PROJECTOR



7. SCANNER, PRINTER AND PHOTOSTAT

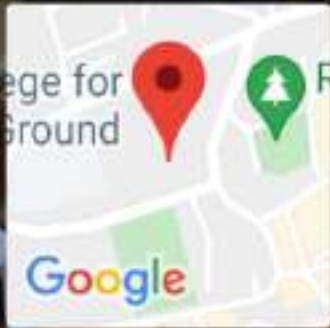


8. COMPUTER SYSTEMS





GPS Map Camera



Jammu, null, null

Women College, Pared Ground, PVQ8+367,
Pakki Dhaki, Jammu, 180001

Lat 32.737483°

Long 74.865585°

14/05/22 10:28 AM

9. SMART BORADS



10. MAGIC BOX



11. DIGITAL PODIUM



12. NPTEL

NPTEL TRANSFORMING YOUNG MINDS

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www.enroll.nptel.ac.in

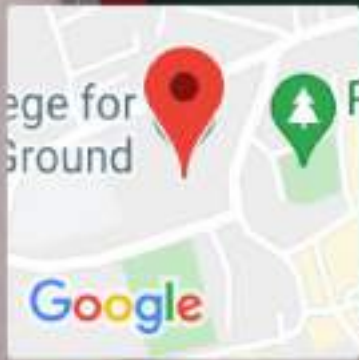
1.58 CRORE+ Courses

75 LAKH+ Students Registered

Exam Registration **OPEN NOW!**
www.enroll.nptel.ac.in

503 NPTEL courses open for Jan-Apr 2022 term

491 NPTEL courses open for Sep-Dec 2021 term

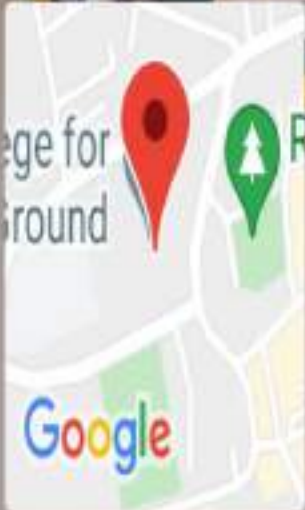


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 Women College, Pared Ground,
 PVQ8+367, Pakki Dhaki, Jammu, 180001
 Lat 32.737626°
 Long 74.865552°
 17/05/22 01:15 PM





GPS Map Camera



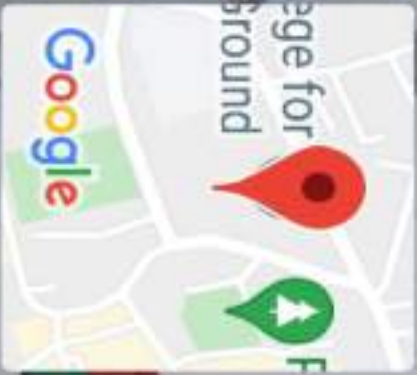
Jammu, null, null

Women College, Pared Ground, PVQ8+367, Pakki
Dhaki, Jammu, 180001

Lat 32.737633°

Long 74.865609°

17/05/22 01:16 PM



Jammu, null, null
Women College, Pared Ground, PVQ8+367, Pakki
Dhaki, Jammu, 180001
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17/05/22 01:14 PM



NATIONAL PROGRAMME ON
TECHNOLOGY ENHANCED LEARNING

NPTEL

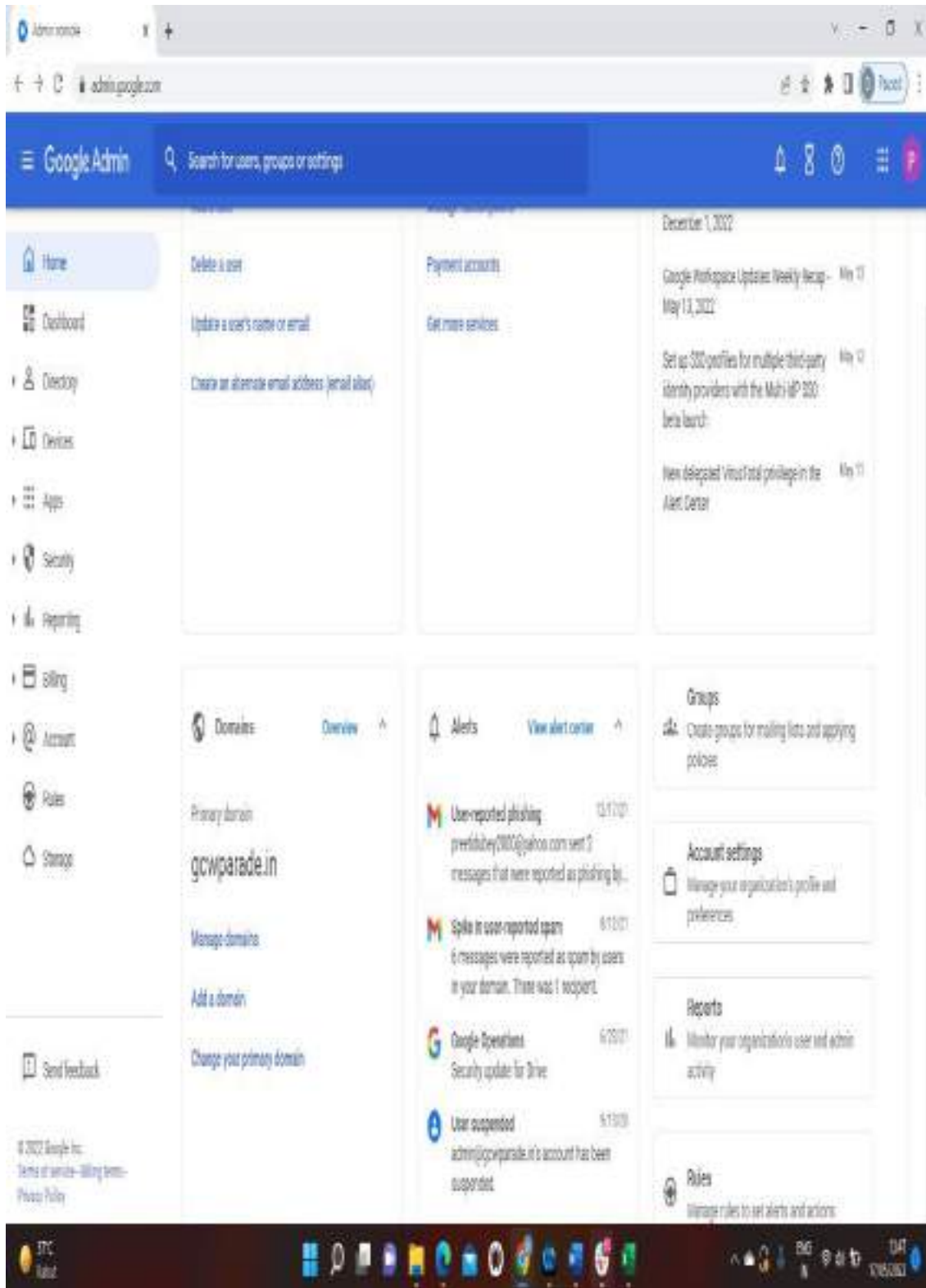
Acting Director
NPTEL

[Handwritten signature]

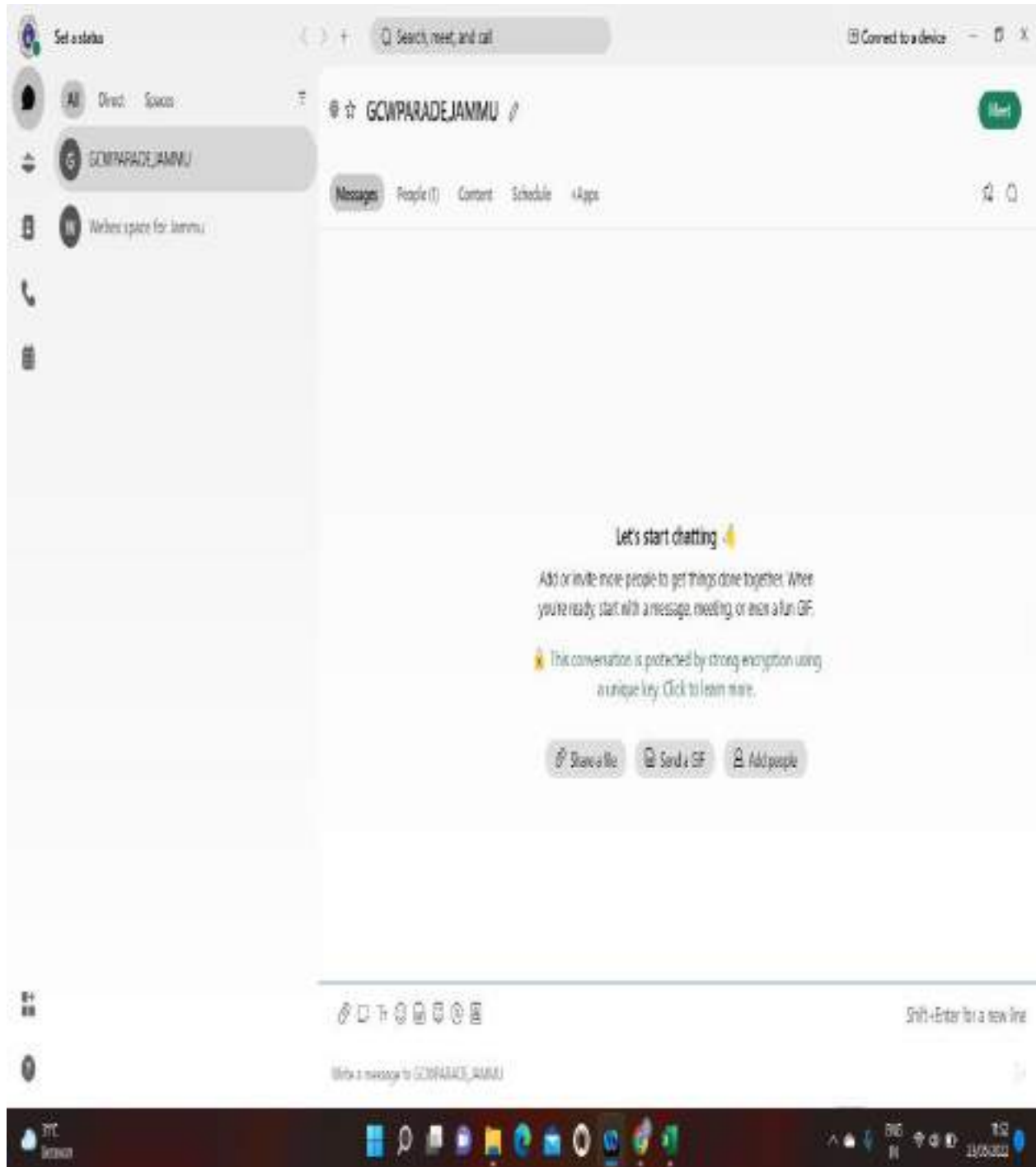
Acting Director
NPTEL

12

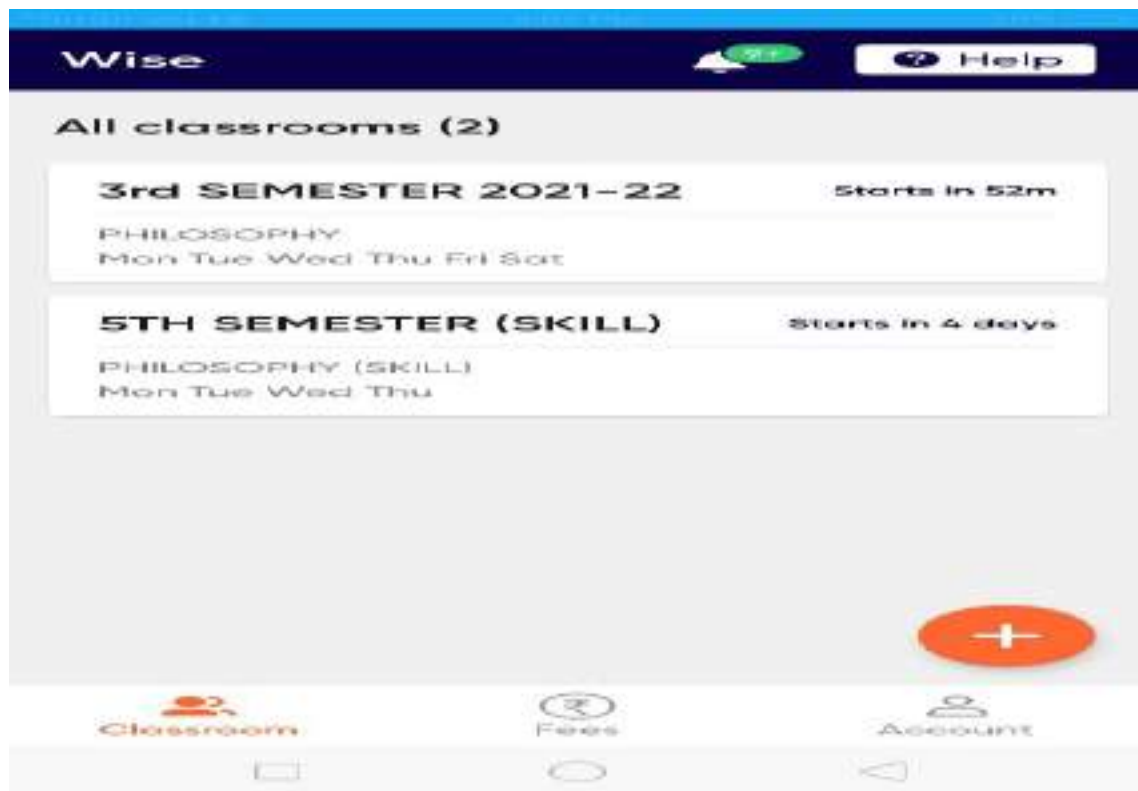
13. G SUITE ADMIN



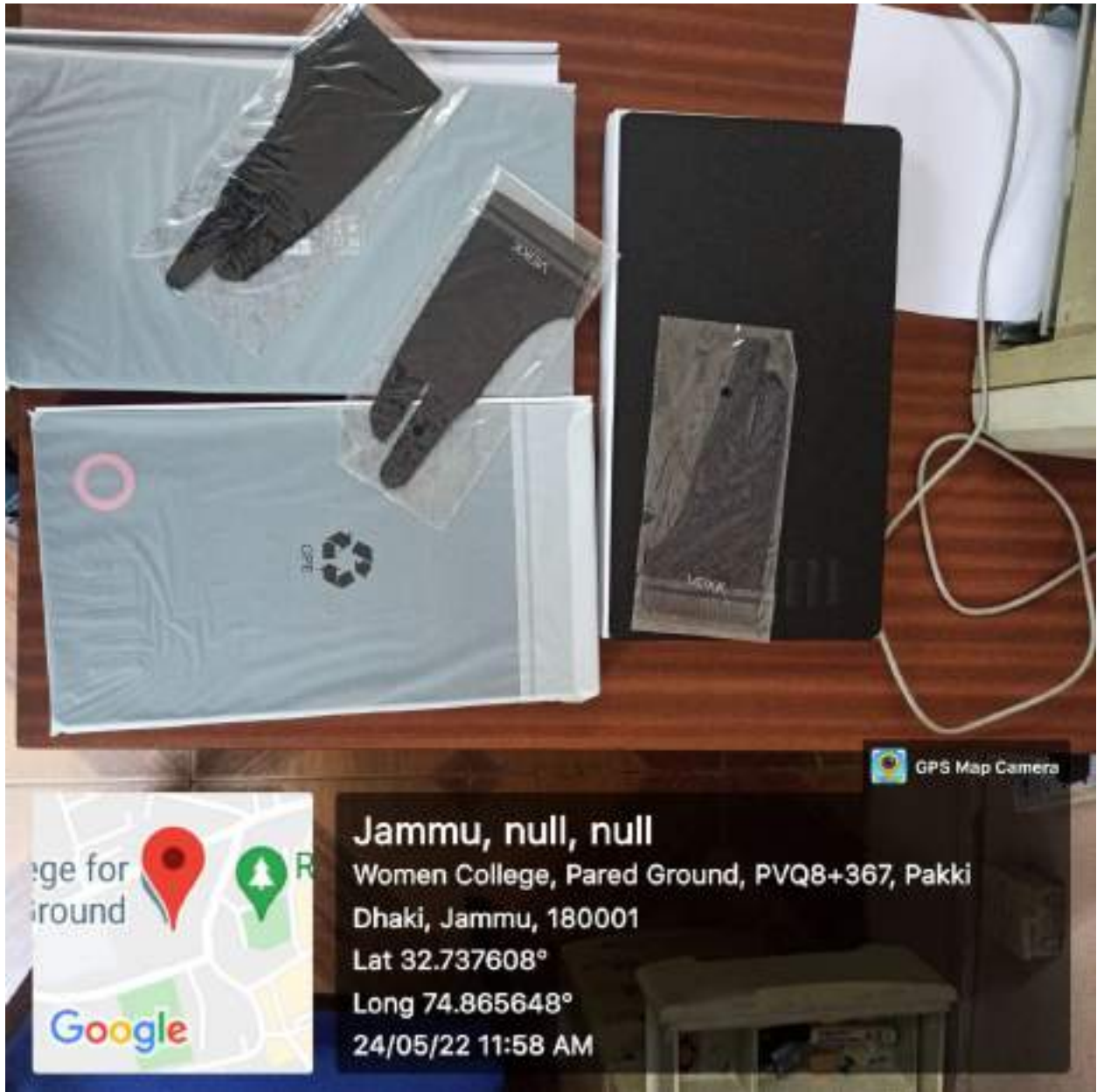
14. CISCO WEBEX



15. WISE APP (Class Rooms)



17. DIGITIZER



16. LAPTOPS



17. IT Cell

