

No.: PMEB-1/Spl./28(10)/2021-22

Date: 03-11-2022

NOTIFICATION

Sub.: Syllabus and Examination pattern of **B.Sc. (Hons.) (Jewellery Design)** course under Specialized Programmes from the academic year 2022-23-reg.

Ref.: 1. Decision of the BOS Meeting held on 30-05-2022.

2. Decision of the Faculty of Science & Technology meeting held on 15-09-2022.

3. Decision of the Academic Council meeting held on 23-09-2022.

The Board of Studies in **B.Sc. (Jewellery Design & Management) (UG)** at its meeting held on 30-05-2022 has recommended to change the nomenclature of the course from **B.Sc. (Jewellery Design & Management)** to **B.Sc. (Hons.) (Jewellery Design)** and also recommended to approve the 1st year Syllabus of **B.Sc. (Hons.) (Jewellery Design)** course in University of Mysore under specialized/specified programs from the academic year 2022-23 as per NEP-2020.

The Faculty of Science & Technology and the Academic Council at their meetings held on 15-09-2022 and 23-09-2022 respectively, have also approved the above said proposal and the same is hereby notified.

The syllabus of **B.Sc. (Hons.) (Jewellery Design)** course may be downloaded from the University website <https://uni-mysore.ac.in/PMEB/>.


REGISTRAR

REGISTRAR

University of Mysore

MYSURU - 570 005

To;

1. The Registrar (Evaluation), University of Mysore, Mysuru.
2. The Dean, Faculty of Science & Technology, DoS in Earth Science, Manasagangothri, Mysuru.
3. Prof. S.J. Manjunath, DoS in Business Administration (BIMS), Manasagangothri, Mysuru.
4. The Principal, Vogue Institute of Design C/o A.D. Biligowda First Grade College, Koppa-571 425, Maddur Taluk, Mandya Dist.
5. The Deputy Registrar/ Asst. Registrar/ Superintendent, Examination Branch, UOM, Mysuru.
6. The PA to Vice-Chancellor/Registrar/Registrar (Evaluation), University of Mysore, Mysuru.
7. Office Copy.

o/c



UNIVERSITY OF MYSORE

REGULATION AND SCHEME

for

B.Sc (Jewellery Design)

AND

SYLLABUS FOR I & II SEM B.Sc. (JEWELLERY DESIGN)

AS PER

NEP GUIDELINES 2020

PREAMBLE

Jewellery design is a multi-faceted profession in which creative and technical solutions are applied within a Jewellery industry. These solutions are functional, enhance the quality of life and culture of the occupants and are aesthetically attractive.

Designs are created in response to and coordinated with the technology concepts and acknowledge the wear ability of the product.

The Jewellery design process follows a systematic and coordinated methodology, including research, analysis and integration of knowledge into the creative process, whereby the needs and resources of the client are satisfied to produce a good designs.

The professional Jewellery designer is qualified by education, experience, and examination to enhance the function and quality of Jewellery for the purpose of improving the quality of life, increasing productivity.

There are various paths that one can take to become a professional Jewellery designer. Training through an institution such as a college, art or design school or university is a more formal route to professional practice.

A formal education program, particularly one accredited by or developed with a professional organization of Jewellery designers, can provide training that meets a minimum standard of excellence and therefore gives a student an education of a high standard.

A Jewellery designer may wish to specialize in a particular type of Jewellery design in order to develop technical knowledge specific to that area. The profession of Jewellery Design is relatively new, constantly evolving, and often confusing to the public. It is an art form that is consistently changing and evolving. Not only is it an art, but it also relies on research from many fields to provide a well-trained designer.

The course curriculum for undergraduate studies under choice based credit system (CBCS) for B.Sc. Jewellery Design (Basic/Hons.) is framed in this document. This exercise was undertaken as part of the nationwide curriculum restructuring initiative by the National Education Policy-2020. This curriculum is a fresh exercise, but also represents a continuous effort of deliberations with the University and College teachers.

As enshrined in the National Education Policy-2020 vision of introducing course curriculum for undergraduate studies under Choice Based Credit System (CBCS), the main objective of framing this curriculum of B.Sc. (Basic/Hons.) Jewellery Design is to impart the students a holistic

Understanding of the subject giving substantial weightage to the core contents, skill, value-based and ability enhancement.

The syllabus has given due importance on the main streams of the body of knowledge on “Jewellery Design” with due recognition of its wide spectrum. The ultimate goal of the syllabus is to enable the students to have an in-depth knowledge on the subject and enhance their scope of employment at every level of exit. Adequate emphasis has been given on the new and emerging techniques and understanding of the subject under the changing regime and global context.

The model curriculum envisages catering to the developmental trends in higher education, incorporating multi-disciplinary skills, professional and soft skills such as team work, communication skills, leadership skills, and inculcating human values, professional ethics, and the spirit of innovation/entrepreneurship and critical thinking among students and promoting avenues for display of these talents, linking general studies with professional courses. Besides imparting disciplinary knowledge to the learners, curriculum should aim to equip the students with competencies like problem solving, analytical reasoning and moral and ethical awareness.

1. COURSE TITLE:

- Program shall be called as **B.Sc. (Jewellery Design)**.

2. DURATION OF THE PROGRAMMES

- The undergraduate program shall extend over four academic years (Eight Semesters) with multiple entry and exit options. The students can exit after the completion of one academic year (Two semesters) with the Certificate in a discipline or a field; Diploma after the study of two academic years (Four Semesters) and Regular Bachelor Degree after the completion of three academic years (Six Semesters). The successful completion of Four Years undergraduate Program would lead to Bachelor Degrees with Honours in a discipline/subject. Each semester shall consist of at least 16 weeks of study with a minimum of 90 working days (excluding the time spent for the conduct of final examination of each semester). It is Four years program consisting of Eight semesters; two semesters in each year. Candidate admitted to this course shall be governed by following rules and regulations

3. PROGRAMME:

B.Sc. (Jewellery Design).

- **First Year**

A candidate who has passed the Pre-University or 10+2 examination conducted by the Pre-University Education Board in the State of Karnataka or two years Job Oriented Courses conducted by the Board of Vocational Education of any State Government or any other examination considered as equivalent thereto.

.CONTINUOUS FORMATIVE EVALUATION/ INTERNAL ASSESSMENT:

Total marks for each course shall be based on continuous assessments and semester end examinations. As per the decision taken at the Karnataka State Higher Education Council, it is necessary to have uniform pattern of 40 : 60 for IA and Semester End theory examinations respectively and 50 : 50 for IA and Semester End practical examinations respectively, in all the Universities, their Affiliated and Autonomous Colleges.

Total Marks for each course = 100%

Continuous assessment (C1) = 20% marks

Continuous assessment (C2) = 20% marks

Semester End Examination (C3) = 60% marks.

- a) The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course/s and within 45 working days of semester program.
- b) The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, internship / industrial practicum / project work etc. This assessment and score process should be based on completion of remaining 50 per cent of syllabus of the courses of the semester.
- c) During the 17th – 19th week of the semester, a semester end examination shall be conducted by the University for each Course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 60%.
- d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Program Coordinator / Principal. The Program Coordinator / Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher but before commencement of the concerned semester end examinations.
- e) For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these be stamped by the concerned department using their department seal at the time of conducting tests / assignment / work etc.
- f) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under.

Evaluation process of IA marks shall be as follows.

Activities	C1	C2	Total Marks
Session Test	10% marks	10% marks	20%
Seminars/Presentations/Activity	10% marks		10%
Case study /Assignment / Field work / Project work etc.		10% marks	10%
Total	20% marks	20% marks	40%

- g) For practical courses of full credits, Seminar shall not be compulsory. In its place, marks shall be awarded for Practical Record Maintenance.
- h) Conduct of Seminar, Case study / Assignment, etc. can be either in C1 or in C2 component at the convenience of the concerned teacher.
- i) The teachers concerned shall conduct tests / seminar / case study, etc. The students should be informed about the modalities well in advance. The evaluated courses / assignments during component I (C1) and component II (C2) of assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teachers(s) and maintained by the Chairman, Principal / Director in the case of affiliated institutions. Before commencement of the semester end examination, the evaluated test, assignment etc. of C1 and C2 shall be obtained back to maintain them till the announcement of the results of the examination of the concerned semester.
- j) The marks of the internal assessment shall be published on the notice board of the department / College for information of the students.
- k) Internal assessment marks may be recorded separately. A candidate, who has failed or rejected the result, shall retain the internal assessment marks.

4. CONDUCT OF EXAMINATIONS:

A candidate shall register for all the courses/papers of a semester for which he/she fulfills the requirements, when he/she appears for examination of that semester for the first time.

- (a) There shall be Theory and Practical examinations at the end of each semester, ordinarily during November-December for odd semesters and during May-June for even semesters, as prescribed in the Scheme of Examinations.
- (b) Unless otherwise stated in the schemes of examination, practical examinations shall be conducted at the end of each semester. They shall be conducted by two examiners, one internal and one external and shall never be conducted by both internal examiners. The statement of marks sheet and the answer books of practical examinations shall be sent to the Registrar (Evaluation) by the Chief Superintendent of the respective Colleges immediately after the practical examinations.
- (c) The candidate shall submit the record book for practical examination duly certified by the course teacher and the HOD/staff in-charge. It shall be evaluated at the end of the Semester at the practical examination.
- Project work, dissertation, Internship, may be offered as per the schemes prescribed in the courses. It shall be evaluated by two examiners, one external and one internal appointed by the University. Wherever there is viva-voce, it shall be conducted by the Viva-Board consisting of the internal guide and one external expert from the panel of examiners and as approved by the Registrar (Evaluation).
- There shall be a term end examination for each theory subject and for practical subject at the end of the semester as per university regulations except project ,Internship, Working Drawing Viva Voice
- Each subject is divided into internal assessment and end term exam with marks allotted as shown below

A. TOTAL MARKS -THEORY PAPERS 100 MARKS

External examination: 60 marks

Internal Assessment 40 marks

(Internal Assessment Includes test, Presentation, Assignments and Portfolios)

Each student has to score minimum of 35% in each paper.

B. TOTAL MARKS –PRACTICAL PAPERS 100 MARK

External examination: 50marks

Internal Assessment 50marks

(Internal Assessment Includes test, Presentation, Assignments and Portfolios)

Each student has to score minimum of 40% in each paper

C. TOTAL MARKS –PRACTICAL PAPERS 50 MARKS

External examination: 25 marks

Internal Assessment 25 marks

(Internal Assessment Includes test, Presentation, Assignments and Portfolios)

Each student has to score minimum of 40% in each paper

5. INTERNSHIP:

- After completion of 4th semester, including semester holidays between 4th and 5th semester, an internship program shall be attended by the student for 30 days under Jewellery manufacturing houses , Boutiques , showrooms or Multinational Company
- Internal assessment will be evaluated by internal guide.
- Portfolio and report completed in internship shall be evaluated for by internal guide and external guide, through Presentation & VIVA VOCE.

6. PROJECT

In the 6th & 8th semesters each student shall under take project work and prepare project report and portfolio strictly in accordance with the guidelines in their respective area under

the supervision of an internal guide. The students are required to maintain a project work diary to be submitted for evaluation. The project report and portfolio must be submitted before the commencement of sixth & eighth semester examination, failing which the student shall not be permitted to appear for the examination

- Project report and portfolio completed during the semester will be evaluated, Viva Voce will be conducted by internal and external examiner selected by BOE

7. INTERNAL ASSESSMENT:

- Marks for internal assessment shall be awarded on the basis of seminars, field work, tests, assignments & Attendance etc. as determined by the respective subject

EXIT OPTIONS AND CREDIT REQUIREMENTS

Progressive Certificate, Diploma, Bachelor of Science Degree, Bachelor of Science Degree with Honours.

EXIT WITH	CREDIT REQUIREMENTS
CERTIFICATE At the successful completion of First year (Two Semesters) of the Four Years Undergraduate Degree Programme.	52 credits
DIPLOMA At the successful completion of Second year (Four Semesters) of the Four Years Undergraduate Degree Programme.	100 credits
BACHELOR OF SCIENCE DEGREE At the successful completion of Three year (Six Semesters) of the Four Years Undergraduate Degree Programme.	144 credits
BACHELOR OF SCIENCE DEGREE WITH HONOURS At the successful completion of Four year (Eight Semesters) of the Four Years Undergraduate Degree Programme.	185 credits

A student will be allowed to enter/re-enter only at the Old semester and can only exit after even semester. Re-entry at various as lateral entrants in academic programmes based on the above

mentioned earned credits and proficiency test records.

The validity of the earned credit will be for a maximum period of seven years or as specified by the academic bank of credits (ABC).

8. NEP MODEL STRUCTURE 1C

MODEL PROGRAM STRUCTURES FOR THE UNDER-GRADUATE PROGRAMS IN UNIVERSITIES AND COLLEGES IN KARNATAKA

Sem	Discipline Core(DSC) (Credits) (L+T+P)	Discipline Elective (DSE) / Open Elective(OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (Aecc), Languages (Credits) (L+T+P)		Skill Enhancement Courses (Sec)			Total Credits
					Skill Based (Credits) (L+T+P)	Value Based (Credits) (L+T+P)		
I	JD 1: Fundamentals Of Jewellery Design (3+2)	OE 01: Study of Jewellery products (3+0)	L1-1(3), L2-1(3) (4 Hrs. Each)		Sec-1: Alternative Sec In Place Of Digital Fluency (2) (1+0+2)	Physical Education -Yoga (1) (0+0+2)	Health & Welln ess(1) (0+0+ 2)	26
	JD 2: Indian History of Art and Jewellery (3+2)							
	JD 3: Orthographic Drawing (0+3)							
II	JD 4: Gemology (3+2)	OE 02 :Socio - Cultural History of Jewellery (3+0)	L1-2(3), L2-2(3) (4 Hrs. Each)	Environmental Studies (2)		Physical Education - Sports (1) (0+0+2)	NCC/NSS/ R&R(S& G) / Cultural (1) (0+0+2)	26
	JD 5: Jewellery Illustration -1 (3+2)							
	JD 6: Digital Jewellery Studio-1 (0+3)							
Exit Option With Certificate In Jewellery Design (With A Minimum Of 52 Credits)								

Sem	Discipline Core(DSC) (Credits) (L+T+P)	Discipline Elective (DSE) / Open Elective(Oe) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (Sec)			Total Credits
					Skill Based (Credits) (L+T+P)	Value Based (Credits) (L+T+P)		
III	JD 7: Diamond Grading -1 (3+2)	OE 03 : Import & export of Gem & Jewellery (3+0)	L1-3(3), L2-3(3) (4 Hrs Each)		Sec-2: Alternative Sec In Place Of Ai (2) (1+0+2)	Physical Education -Sports (1) (0+0+2)	Ncc/Nss/R & R(S&G)/ Cultural (1) (0+0+2)	26
	JD 8: Jewellery Illustration -2 (3+2)							
	JD 9: Digital Jewellery Studio -2 (0+#)							
IV	JD 10: Diamond Grading -2 (3+2)	OE 04 : Introduction to Diamonds (3+0)	L1-4(3), L2-4(3) (4 Hrs Each)	Constitution Of India (2)		Physical Education -Sports (1) (0+0+2)	NCC/NSS/R &R(S&G)/ Cultural (1) (0+0+2)	26
	JD 11: Metallurgy (3+2)							
	JD 12: Jewellery Manufacturing (0+3)							
Exit Option With Diploma In Jewellery Design (With A Minimum of 100 Credits)								

Sem	Discipline Core(DSC) (Credits) (L+T+P)	Discipline Elective (DSE) / Open Elective(Oe) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (Aecc),Languages (Credits) (L+T+P)		Skill Enhancement Courses (Sec)			Total Credits
					Skill Based (Credits) (L+T+P)	Value Based (Credits) (L+T+P)		
V	JD 13: Production Methods & Quality Control (3+2)	DSE 1 : Luxury Jewellery Segment / Business Communication (3+0) Vocational 1 : Internship(0+3)			Sec-3: Alternative Sec In Place Of Cyber Security (2) (1+0+2)	Physical Education- Sports (1) (0+0+2)	NCC/NS S/ R&R(S& G)/ Cultural (1) (0+0+2)	23
	JD 14: Accessory Designing (3+2)							
	JD 15: Digital Jewellery Studio-3 (0+3)							
VI	JD 16: Portfolio (3+2)	DSE 2 : Entrepreneurship (3+0) Vocational 2: Budget Based Design & Illustration (0+3)			Sec-4: Professiona 11 Communica tion (2)	Physical Education - Sports (1) (0+0+2)	NCC/NS S/ R&R(S& G)/ Cultural (1) (0+0+2)	23
	JD 17: Design Thinking & Product Development (3+2)							
	JD 18: Digital Jewellery Studio – 4 (0+3)							

Exit Option With Bachelor Of Science In Jewellery Design : B.Sc.(Jewellery Design) / (With A Minimum Of 144 Credits)

Sem	Discipline Core(DSC) (Credits) (L+T+P)	Discipline Elective (DSE) / Open Elective(Oe) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (Sec)			Total Credits
					Skill Based (Credits) (L+T+P)	Value Based (Credits) (L+T+P)		
VII	JD 19: Renovation & Restoration of Jewellery (3+2)	DSE 3 :Human Resource Management(3+0)						21
	JD 20: Model Making & Tool Design(3+2)	Vocational 3: Digital Sculpting (0+3)						
	JD 21: Photography In Jewellery (0+2)	Research Methodology(3+0)						
VIII	JD:22: Sustainable & Ethical Jewellery (3+2)	DSE 4 : Jewellery Merchandiser (3+0)						20
	JD 23: Advanced Jewellery Making Techniques(0+3)	Vocational 4 : CAD/CAM BASICS (0+3) Project(6)						
Award Of Bachelor Of Science Honours In Jewellery Design, B.Sc. (Hons.) (185 Credits)								

9. DETAILS OF PAPERS FOR FOUR YEAR IN JEWELLERY DESIGN

- Discipline specific Core (DSC) = Papers
- Discipline Specific Elective (DSE) = Papers (Two elective papers will be offered in 5th to 10 semester; student has an option of choosing one elective paper).
- Open Elective (OE) = 04 papers (A students has to choose one Open Elective each in 1st, 2nd, 3rd & 4th Semester).
- Vocational Courses = 4 Vocational course will be offered, one each from 5th semester.
- Internship is offered as vocational course in 5th semester.
- Ability Enhancement Compulsory Course (AECC) = 8 Papers (Languages) + 2 Papers (Environmental Studies and Constitution) = 10 Papers
- Skill Enhancement Course (SEC) = 6 (Skill Based) + 6 (Value based) = 12 Papers

10. TABLE FOR BIRDS EYE VIEW OF PAPERS OFFERED AS PER 1 C MODEL

S.NO	COURSE CODE	CATEGORY OF COURSE CORE/DSC/OE	THEORY/ PRACTICAL	CREDITS	PAPER TITLES	MARKS	
						EXAM	IA
I SEMESTER							
1	JD-T 1.1	DSC	Theory	3	Fundamentals of Jewellery Design	40	60
2	JD-P 1.1	DSC	Practical	2	Fundamentals of Jewellery Design lab	25	25
3	JD-T 1.2	DSC	Theory	3	Indian History of Art and Jewellery	40	60
4	JD-P 1.2	DSC	Practical	2	Indian History of Art and Jewellery Lab	25	25
5	JD-P 1.3	DSC	Practical	3	Orthographic Drawing	50	50
6	JD-OE-1	OE -1	Theory	3	Study of Jewellery Products	40	60

II SEMESTER							
7	JD T 2.1	DSC	Theory	3	Gemology	40	60
8	JD P 2.1	DSC	Practical	2	Gemology Lab	25	25
9	JD T 2.2	DSC	Theory	3	Jewellery Illustration -1	40	60
10	JD P 2.2	DSC	Practical	2	Jewellery Illustration -1 Lab	25	25
11	JD P 2.3	DSC	Practical	3	Digital Jewellery Studio-1 Lab	50	50
12	JD-OE-2	OE -2	Theory	3	Socio - Cultural History of Jewellery	40	60

III SEMESTER							
13	JD-T 3.1	DSC	Theory	3	Diamond Grading - 1	40	60
14	JD-P 3.1	DSC	Practical	2	Diamond Grading – 1 Lab	25	25
15	JD-T 3.2	DSC	Theory	3	Jewellery Illustration - 2	40	60
16	JD-P 3.2	DSC	Practical	2	Jewellery Illustration – 2 Lab	25	25
17	JD-P 3.3	DSC	Practical	3	Digital Jewellery Studio -2 Lab	50	50
18	JD-OE-3	OE-3	Theory	3	Import & export of Gem & Jewellery	40	60

IV SEMESTER							
19	JD-T 4.1	DSC	Theory	3	Diamond Grading - 2	40	60
20	JD-P 4.1	DSC	Practical	2	Diamond Grading – 2 Lab	25	25
21	JD-T 4.2	DSC	Theory	3	Metallurgy	40	60
22	JD-P 4.2	DSC	Practical	2	Metallurgy Lab	25	25
23	JD-P 4.3	DSC	Practical	3	Jewellery Manufacturing	50	50
24	JD-OE 4	OE-4	Theory	3	Introduction to Diamonds	40	60

VSEMESTER							
25	JD-T 5.1	DSC	Theory	3	Production Methods & Quality Control	40	60
26	JD-P 5.1	DSC	Practical	2	Production Methods & Quality Control Lab	25	25
27	JD-T 5.2	DSC	Theory	3	Accessory Designing	40	60
28	JD-P 5.2	DSC	Practical	2	Accessory Designing Lab	25	25
29	JD-P 5.3	DSC	Practical	3	Digital Jewellery Studio-3	50	50
30	JD-E 5.4	DSE - 1	Theory	3	Luxury Jewellery Segment or Business Communication	40	60
31	JD -V 5.5	Vocational -1	Practical	3	Internship	50	50

VI SEMESTER							
32	JD-T 6.1	DSC	Theory	3	Portfolio	40	60
33	JD-P 6.1	DSC	Practical	2	Portfolio	25	25
34	JD-T 6.2	DSC	Theory	3	Design thinking & Product Development	40	60
35	JD-P 6.2	DSC	Practical	2	Design thinking & Product Development Lab	25	25
36	JD-P 6.3	DSC	Practical	3	Digital Jewellery Studio-4	50	50
37	JD-E 6.4	DSE - 2	Theory	3	Entrepreneurship	40	60
38	JD-V 6.5	Vocational-2	Practical	3	Budget Based Design & Illustration	50	50

VII SEMESTER							
39	ID-T 7.1	DSC	Theory	3	Renovation & Restoration of Jewellery	40	60
40	ID-P 7.1	DSC	Practical	2	Renovation & Restoration of Jewellery	25	25
41	ID-T 7.2	DSC	Theory	3	Model Making & Tool Design	40	60
42	ID-P 7.2	DSC	Practical	2	Model Making & Tool Design	25	25
43	ID-P 7.3	DSC	Practical	2	Photography in Jewellery	25	25
44	ID-E 7.4	DSE - 3	Theory	3	Human Resource Management	40	60
45	ID- V 7.5	Vocational-3	Practical	3	Digital Sculpting	50	50
46	ID-T 7.6		Theory	3	Research Methodology	40	60

VIII SEMESTER							
47	ID-T 8.1	DSC	Theory	3	Sustainable & Ethical Jewellery	40	60
48	ID-P 8.1	DSC	Practical	2	Sustainable & Ethical Jewellery	25	25
49	ID-P 8.2	DSC	Practical	3	Advanced Jewellery Making Techniques	50	50
50	ID-E 8.3	DSE - 4	Theory	3	Jewellery Merchandiser	40	60
51	ID-V 8.4	Vocational-4	Practical	3	CAD/CAM Design	50	50
52	ID-P 8.5		Practical	6	Research Project	100	100

11. PROGRAMME OUTCOMES, EXIT OPTIONS AND JOB OPPORTUNITIES

A) Name of the Degree: **B Sc (Basic/Hons)**

B) Specialization: **Jewellery Design**

C) **Programmed Articulation Matrix:** This matrix lists only the core courses that are essential for every student to earn his /her degree. It includes Theory, lab, tutorial, Project, Filed Work, Internships, Research and Educational tour. Electives are not part of this list.

PROGRAMME SPECIFIC OBJECTIVES (PSO)

1. The students will learn the characteristics of design and its application in Jewellery. They also acquire the practical skill of creating designs.
2. The students become knowledgeable of the importance of applying anthropometric and ergonomic concepts in Jewellery Design.
3. Students get exposed to design development through various eras to inculcate knowledge in future projects.
4. The students acquire knowledge of building elements, construction and finishing materials and its applications.
5. Students will learn building services such as electrical, plumbing, rain water harvesting, sanitation, heating, ventilation, air conditioning, acoustics, damp proofing, fire and termite proofing.
6. The Students will learn accurate detailing of Jewellery technique.
7. The students gain expertise of designing Jewellery.
8. The students get the concept of restoration, preservation and rehabilitation of heritage and old buildings.
9. The students will realize the importance of ecological balance and learn to develop landscape design.
10. Students acquire knowledge about profit and cost management techniques.
11. The students will develop communication and presentation skills.
12. With the help of the knowledge acquired, they will be proficient to design of Jewellery for wearable, fashionable & costume.

D)

PSO 1T Have developed knowledge and understanding of the Creative subject, and able to appreciate the essence of art and design

PSO 1P Be able to analyse the technical language in design, Exposure to type of Materials in Jewellery.

PSO 2T Have developed an understanding of the History and ancient development in Jewellery around the world. And able to appreciate the essence of art and design in various culture.

PSO 2P Be able to Draw and compose Jewellery sketch to an appropriate scale & measurement.

Understanding Computer aided Design (CAD) tools to continue on digital platform.

PSO 3T Have developed a sound knowledge on concepts of the prospective views of the objects. The views of the product in different angles.

PSO 3P be able to visualize the drawings from 2D level to 3D level in modelling design soft wares.

PSO 4T Have developed an understanding of colour stone industry, market and to identify them based on their properties.

PSO 4P be able to understand and know to identify the natural gem stone, organic & semi-precious gemstones.

PSO 5T Be able to understand and know the sourcing of natural gem stone, organic & semi-precious gemstones.

PSO 5P Have developed knowledge and understanding of calculation of Quantities and cost Estimates in Jewellery works. Understanding of quality control.

PSO 6T be able to design using Rhino CAD software.

PSO 6P Have developed knowledge and understanding of making Jewellery using technical methods.

PSO 7T Have developed knowledge and understanding of Renovation and Restoration of the traditional Jewellery into latest design. Developments and executions with new innovation.

PSO 7P be able to Design for digital sculpting using technology in creating 3d design. Photography skills

PSO 8P Have developed knowledge and understanding in Merchandizing, writing articles, Sustainability in design, Human resource management methods.

PSO 8T be able to convert CAD Design into digital manufacturing technique.

CAREER OPPORTUNITIES

Jewellery design offers excellent job opportunities and options to freelance globally. The market for Jewellery designing in India is all set to absorb new and aspiring talent. This profession has become one of the best ever emerging field in India with demand for Jewellery design professionals due to increasing trends in urban areas and small town's .Changing life style of people and their needs to customize their Jewellery. There are inadequate numbers of professionally qualified Jewellery designers and there is a huge demand for them.

I YEAR- Job opportunities for the Exit option with Certificate

- Drawing teachers.
- Manual Designers
- CAD Lab assistant in educational institutions

II YEAR- Job opportunities for the Exit option with Diploma in Jewellery Design

- Gemmologist.
- Junior Designer.
- Self-employment

III- YEAR Job opportunities for the Exit option with B.Sc.(Jewellery Design)

- Free Lance Designer
- Designer
- Jewellery Manager
- Entrepreneur
- Qualified Diamond Grader
- Gemologist.
- CAD Designer

IV-YEAR Job opportunities for the B.Sc. (Hons.) Degree in Jewellery Design

- Jewellery Designer
- CAD Designer
- Gemologist
- Free Lance Designer
- Designer
- Jewellery Manager
- Entrepreneur
- Qualified Diamond Grader
- Diamond Grader
- Production Manager
- Brand Manager
- Visual Merchandiser
- Retail Store Manager
- Quality Controller

SEMESTER I								
CODE	SUBJECTS	PAPER	TEACHING HRS/WEEK	EXAM HRS	MARKS			CREDITS
					IA	EXAM	TOTAL	
	Language I	Theory	4	2.5	40	60	100	3
	Language II	Theory	4	2.5	40	60	100	3
JD-T 1.1	Fundamentals Of Jewellery Design	Theory	3	2.5	40	60	100	3
JD-P 1.1	Fundamentals of Jewellery Design Lab	Practical	4	3	25	25	50	2
JD-T 1.2	Indian History of Art and Jewellery	Theory	3	2.5	40	60	100	3
JD-P 1.2	Indian History of Art and Jewellery Lab	Practical	4	3	25	25	50	2
JD-T 1.3	Orthographic Drawing	Practical	6	4	50	50	100	3
JD-OE-1	OE	Theory	3	2.5	40	60	100	3
SEC-1	Digital Fluency	Theory+ practical	1+2	2	20	30	50	2
VB-1	Yoga	practical	2	-	-	25	25	1
VB-2	Health & Wellness	Practical	2	-	-	25.	25	1
			38	TOTAL			800	26

SEMESTER II								
CODE	SUBJECTS	PAPER	TEACHING HRS/WEEK	EXAM HRS	MARKS			CREDITS
					IA	EXAM	TOTAL	
	Language I	Theory	4	2.5	40	60	100	3
	Language II	Theory	4	2.5	40	60	100	3
JD-T 2.1	Gemology	Theory	3	2.5	40	60	100	3
JD-P 2.1	Gemology Lab	Practical	4	3	25	25	50	2
JD-T 2.2	Jewellery Illustration -1	Theory	3	2.5	40	60	100	3
JD-P 2.2	Jewellery Illustration Lab - 1	Practical	4	3	25	25	50	2
JD-T 2.3	Digital Jewellery Studio Lab- 1	Practical	6	4	50	50	100	3
JD-OE-2	OE	Theory	3	2.5	40	60	100	3
AECC-1	Environmental Studies	Theory	3	2	20	30	50	2
VB-3	Sports	practical	2	-	-	25	25	1
VB-4	NCC/NSS/R&R/CA	Practical	2	-	-	25.	25	1
			38	TOTAL			800	26

SEMESTER III								
CODE	SUBJECTS	PAPER	TEACHING HRS/WEEK	EXAM HRS	MARKS			CREDITS
					IA	EXAM	TOTAL	
	Language I	Theory	4	2.5	40	60	100	4
	Language II	Theory	4	2.5	40	60	100	4
JD-T 3.1	Diamond Grading -1	Theory	3	2.5	40	60	100	3
JD-P 3.1	Diamond Grading Lab -1	Practical	4	3	25	25	50	2
JD-T 3.2	Jewellery Illustration -2	Theory	3	2.5	40	60	100	3
JD-P 3.2	Jewellery Illustration Lab-2	Practical	4	3	25	25	50	2
JD-P 3.3	Digital Jewellery Studio Lab-2	Practical	6	4	50	50	100	3
JD-OE-3	OE	Theory	3	2.5	40	60	100	3
SEC-2	Artificial Intelligence	Theory+ practical	1+2	2	20	30	50	2
VB-5	Sports	practical	2	-	-	25	25	1
VB-6	NCC/NSS/R&R/CA	Practical	2	-	-	25.	25	1
			38	TOTAL			800	26

SEMESTER IV								
CODE	SUBJECTS	PAPER	TEACHING HRS/WEEK	EXAM HRS	MARKS			CREDITS
					IA	EXAM	TOTAL	
	Language I	Theory	4	2.5	40	60	100	4
	Language II	Theory	4	2.5	40	60	100	4
JD-T 4.1	Diamond Grading -2	Theory	3	2.5	40	60	100	3
JD-P 4.1	Diamond Grading Lab -2	Practical	4	3	25	25	50	2
JD-T 4.2	Metallurgy	Theory	3	2.5	40	60	100	3
JD-P 4.2	Metallurgy lab	Practical	4	3	25	25	50	2
JD-P 4.3	Jewellery	Practical	6	Viva	50	50	100	3

	Manufacturing Lab			Voce				
JD-OE 4	OE	Theory	3	2.5	40	60	100	3
AECC-2	Constitution of India	Theory	3	2	20	30	50	2
VB-7	Sports	practical	2	-	-	25	25	1
VB-8	NCC/NSS/R&R/CA	Practical	2	-	-	25.	25	1
			38	TOTAL			800	26
SEMESTER V								
CODE	SUBJECTS	PAPER	TEACHING HRS/WEEK	EXAM HRS	MARKS			CREDITS
					IA	EXAM	TOTAL	
JD-T 5.1	Production Methods & Quality Control	Theory	3	2.5	40	60	100	3
JD-P 5.1	Production Methods & Quality Control lab	Practical	4	3	25	25	50	2
JD-T 5.2	Accessory Designing	Theory	3	2.5	40	60	100	3
JD-P 5.2	Accessory Designing Lab	Practical	4	3	25	25	50	2
JD-P 5.3	Digital Jewellery Studio Lab-3	Practical	6	4	50	50	100	3
JD-E 5.4	Luxury Jewellery Segments or Business Communication	Theory	3	3	40	60	100	3
JD -V 5.5	Vocational-Internship	Practical	6	Viva voce	50	50	100	3
SEC-3	Cyber Security	Theory	3	2	20	30	50	2
VB-9	Sports	practical	2	-	-	25	25	1
VB-10	NCC/NSS/R&R/CA	Practical	2	-	-	25.	25	1
			38	TOTAL				23

SEMESTER VI								
CODE	SUBJECTS	PAPER	TEACHING HRS/WEEK	EXAM HRS	MARKS			CREDITS
					IA	EXAM	TOTAL	
JD-T 6.1	Portfolio	Theory	3	2.5	40	60	100	3
JD-P 6.1	Portfolio lab	Practical	4	3	25	25	50	2
JD-T 6.2	Design Thinking & Product Development Software	Theory	3	3	40	60	100	3
JD-P 6.2	Design Thinking & Product Development lab	Practical	4	2.5	25	25	50	2
JD-P 6.3	Digital Jewellery Studio Lab-4	Practical	6	Viva voce	50	50	100	3
JD-E 6.4	Entrepreneurship	Theory	3	3	40	60	100	3
JD-V 6.5	Vocational- Budget based Design & Illustration	Practical	6	Viva voce	50	50	100	3
SEC-4	Professional Communication	Theory	3	2	20	30	50	2
VB-11	Sports	practical	2	-	-	25	25	1
VB-12	NCC/NSS/R&R/CA	Practical	2	-	-	25.	25	1
			29	TOTAL				23

SEMESTER VII								
CODE	SUBJECTS	PAPER	TEACHING HRS/WEEK	EXAM HRS	MARKS			CREDITS
					IA	EXAM	TOTAL	
JD-T 7.1	Renovation & Restoration of Jewellery	Theory	3	2.5	40	60	100	3
JD-P 7.1	Renovation & Restoration of Jewellery lab	Practical	4	3	25	25	50	2
JD-T 7.2	Model Making & Tool Design	Theory	3	2.5	40	60	100	3
JD-P 7.2	Model Making & Tool Design lab	Practical	4	3	25	25	50	2
JD-P 7.3	Photography in Jewellery Lab	Practical	4	Viva voce	25	25	50	2
JD-V 7.4	Digital Sculpting	Practical	6	Viva voce	50	50	100	3
JD-E 7.5	Human Resource Management	Theory	3	2.5	40	60	100	3
JD-T 7.6	Research Methodology	Theory	3	2.5	40	60	100	3
			30	TOTAL				21

SEMESTER VIII								
CODE	SUBJECTS	PAPER	TEACHING HRS/WEEK	EXAM HRS	MARKS			CREDITS
					IA	EXAM	TOTAL	
ID-T 8.1	Sustainable & Ethical Jewellery	Theory	3	2.5	40	60	100	3
ID-P 8.1	Sustainable & Ethical Jewellery lab	Practical	4	3	25	25	50	2
ID-P 8.2	Advanced Jewellery Making Techniques lab	Practical	6	4	50	50	100	3
ID-E 8.3	Jewellery Merchandiser	Theory	3	2.5	40	60	100	3
ID-V 8.4	CAD/CAM Basics	Practical	6	4	50	50	100	3
ID-P 8.5	Project	Practical	12	Viva voce	100	100	200	6
			34	TOTAL				20

DETAILED PAPERS**SEMESTER- I****TITLE OF THE COURSE: JEWELLERY DESIGN.**

JD-T 1.1 FUNDAMENTALS OF JEWELLERY DESIGN		JD-P 1. 1 FUNDAMENTALS OF JEWELLERY DESIGN LAB			
Number of Theory Credits	Number of lecture hours/semester	Number of Theory Credits	Number of Practical hours/semester		
3	42	2	56		
JD-T 1.2 INDIAN HISTORY OF ART AND JEWELLERY		JD-P 1. 2 INDIAN HISTORY OF ART AND JEWELLERY LAB		JD-P 1. 3 ORTHOGRAPHIC DRAWING	
Number of Theory Credits	Number of lecture hours/semester	Number of Practical Credits	Number of Practical hours/semester	Number of Practical Credits	Number of Practical hours/semester
3	42	2	56	3	84

CONTENT OF COURSE JD-T 1.1: FUNDAMENTALS OF JEWELLERY DESIGN.**Total Teaching Hours-42****Total Credit-3****COURSE OUTCOME:**

- Understand the principles of design familiar with the meaning and purpose of design.
- Understanding the elements of design and its application.
- To study the fundamentals of design and development of design vocabulary,
- To nurture design thinking and to enable them to apply the same thought process in color theory.

UNIT-1: Foundation of design	10Hours
<p>Chapter-1 Introduction to Jewellery design and its importance and scope. Different aspects of Jewellery design profession. Understanding the roles and responsibilities of the Jewellery designer</p> <p>Chapter-2 Definition and classification of design - Decorative design. Classification of decorative design in terms of precious & semi-precious metal: Naturalistic, stylized, geometric and abstract artefacts.</p> <p>Chapter3 Design concept. Importance and requirements of good design. Evaluation of design. Parameters and criteria of design evaluation.</p>	
UNIT-2: Elements and Principles of Design:	20Hours
<p>Chapter 4: Elements of Design – Point, Line, Shape and Form, Texture, Space and Pattern, colour, light – Meaning, importance, and characteristics of each element. The presence, utilization and application of these elements in design.</p> <p>Chapter 5: Principles of Design – Balance, Unity, Proportion, Rhythm, Emphasis and Harmony - Meaning, importance, types and characteristics of these principles. The presence, utilisation and application of these principles in design. Gestalt Design principles.</p> <p>Chapter 6: Application of these elements and principles of design in relevant contexts- Creating a simple Jewellery.</p>	

UNIT-3: Colour and Colour Application:	12 Hours.
<p>Chapter-7: Introduction to Concept of colour - significance of colour in the Jewellery. Definition and physical characteristics of colour. Colour wheel, arrangements and classification of colour, colour groupings. Dimensions and characteristics of colour –Hue, saturation, brightness, Chroma, value, intensity. Effects of Hue, value and Intensity.</p> <p>Introduction to Colour Schemes and Colour harmonies. Characteristics related to-related and contrast, Advanced and receding factors considered in selecting colour harmonies. Application of colour harmonies in Jewellery. Effects of light, form, surface qualities, distances and scales on colour. Colour illusions, effect of colour on each other. Simultaneous and extended contrasts.</p> <p>Chapter-8 Introduction to Traditional Jewellery colour concepts, Contemporary Jewellery different colors, use of colour in various functional contexts – traditional & contemporary Jewellery, Use of colour in special situations – special needs, accessories, art works, signage.</p> <p>Chapter- 9 Introduction to Colour Systems: Pantone, Prang, Munsell, CMYK, RGB colour systems in practice, simplified colour system, colour terminology, special colour issues, mixed colour effects, effects of texture, using colour systems.</p>	

REFERENCE BOOKS:

1. Betty Edwards , Drawing on the Right Side of the Brain Workbook, Publisher : Souvenir Press; Main edition (5 November 2020)
2. William Lidwell , Universal Principles of Design, Publisher : Rockport Publishers; 2nd edition (1 January 2010).
3. John Wiley & Sons, Wucious Wong, Principles of form and design, Publisher : Wiley; 1st edition (1 September 1993)
4. Patti Mollica, Color Theory , Publisher : Walter Foster Publishing (1 January 2013)
5. Joshua Field, An illustrated field guide to the elements and principles of Art + design, Publisher: Lulu.com (2 August, 2018)

CONTENT OF COURSE JD-P 1.1: FUNDAMENTALS OF JEWELLERY DESIGN lab	
Total Teaching Hours-56	Total Credits-2
UNIT-1:Types of Design	08 Hours
<p>1. Basic understanding of various shapes, forms and their structure developing basic drawing Lines ,Semantics of lines , Various shapes</p> <p>2. Basic Application of elements of design in Jewellery design- Line, Point, form and shape, size, colour, light, pattern, texture and space.</p> <p>Three practical's of 4 Hrs each</p>	
UNIT-2: Principles of Design	24 Hours
<p>Basic Application of principles of design in Jewellery Design. - Balance, rhythm, emphasis, harmony, proportion, Unity.</p> <p>Exercises on Gestalt principles, Golden proportion, and Golden ratio Three practical's of 4 Hrs each.</p> <p>1. Compositions, plates, collage, models covering the topics in various media.</p> <p>2. Three dimensional compositions, models, sculpture using various materials.</p>	
UNIT-3:Colour Concepts	24 Hours
<p>Dimensions of colour –Hue, value, intensity. Colour Wheel. Colour Schemes: Harmonious Color Schemes: Monochromatic &analogous on Harmonious Colour Schemes: Triadic, Complementary, Spilt Complementary, Double Complementary, Tetrad, and Poly Chromatic. Neutral colour harmonies & Accented Neutral.</p> <p>Six practical's of 4Hrs each</p> <p>1. Wear ability Jewellery construction.</p> <p>2. Design conceptualization and motif extraction (using elements and principles) from inspirations</p> <p>3. Data collection and source of material report presentations.</p>	

CONTENT OF COURSE JD-T 1.2: INDIAN HISTORY OF ART AND JEWELLERY	
Total Teaching Hours-42	Total Credits-3
COURSE OUTCOME:	
<ul style="list-style-type: none"> • To know the Basic History of Art & Jewellery. • To understand the Indian art forms & Techniques • To gain knowledge on materials and making of Jewellery • To know about Jewellery ornaments used across the states of India. 	
UNIT-1: History of Indian Jewellery	15Hours
<p>Chapter-1: Introduction to art and ornament. The origin of early ornament ,Paleolithic ornament , The middle age / masterpiece of middle age, Materials used in Jewellery and ancient methods, Baroque to revolution</p> <p>Chapter-2: Tibetan Ornaments sub Himalayan Jewellery Introduction to Tibetan Ga'u , Ga'u decoration . The Tibetan beads, Types of stones, Properties and applications. The perak, Tibetan women ornaments/ Jewellery Dressing of stones & finishes.</p> <p>Chapter-3: Rajasthan Jewellery: Thewa work- The Thewa technique: Background, Thewa process, Thewa objects, Filigree: Objects of wire and air, Wire: The raw material, Anatomy of a Filigree object, Filler units: The vocabulary of Filigree, Filigree objects Enameling- Enamel preparation: The melt, Enamel colour-firing sequence, Jaipur enamelling types. Kundan meena Jewellery of Rajasthan.</p>	
UNIT-2: Mughal Jewellery	15Hours
<p>Chapter-1: Mughal ceremony and Jewellery in miniature paintings- The emperor's weighing festival, Mughal's men ornaments (Head, neck, arms, fingers, torso, daggers, ankles</p>	

Mughal's women ornaments (Head, nose, ears, neck , arms, fingers, waist, feet)

Chapter-2:

Mughal Cameo carving: A European Glypic Transplant Mughal
miniature portraits: Ivory icons as Jewellery insets 19th century
Indian Portrait miniatures

Chapter-3:

Indian Sarpeches and European Aigrettes: Turban ornament interchange (Turban feathers:Kalgi, The
Sarpech, The Sarpatti, The European Aigrette)

UNIT-3: Marriage and Jewellery

12Hours

Chapter-1

Regional marriage ornaments of Northern India: Jammu & Kashmir, Himachal Pradesh, Punjab

Chapter-2:

Regional marriage ornaments of Southern India: Kerala, Tamil Nadu – Temple Jewellery

Chapter-3:

Marriage ornaments of other states: Maharashtra, West Bengal, Art of filigree OrissaOrissa

REFERENCE BOOKS

1. Oppi Untracht , Traditional jewellery of India , Publisher : Thames & Hudson ltd (12 may 1997).
2. Asharani Mathur, A Jewelled Splendour, Publisher : Rupa; 2002nd Edition (1 October 2002)
3. Bernadette Van Gelder, Traditional Indian Jewellery, Published 16th Nov 2017
4. Stellene Volandes , Jewels That Made History, Publisher : Rizzoli (October 13, 2020)
5. Joan Evans, A History of Jewellery 1100-1870, Publisher : Boston Book and Art; 2nd edition (January 1, 1970)

CONTENT OF COURSE JD-P 1.2 : INDIAN HISTORY OF ART AND JEWELLERY Lab	
Total Teaching Hours-56	Total Credits-2
COURSE OUTCOME:	
<ul style="list-style-type: none"> • To know the different Indian forms of Jewellery. • To understand the methods of jewellery techniques • To gain knowledge on materials and making of jewellery • To understand different metals of making jewellery. 	
UNIT-1:Art form	16 Hours
<p>Type of art form Application of gemstones Stone/beads, Materials used in jewellery and ancient methods Market Survey on beads, material. Sketching of different types of art forms. Abstract expressionism.</p> <p>Four practical's of 4 Hrs each.</p> <ol style="list-style-type: none"> 1. Making jewellery using beads & wire. 2. Representation techniques –Sketching &Drawings. 	
UNIT-2: Rendering Technique & Mix Media Technique	16 Hours
<p>Pencil drawing & shading. Rendering of metals forms textures & shadow formations using various medium & technique. Filigree technical drawing frames. Rendering of objects, shading techniques. Drawing techniques of Cameo & rendering. Art Media Skills: Understand traditional and emerging materials, techniques, and process</p> <p>Four practical's of 4 Hrs each.</p> <ol style="list-style-type: none"> 1. Representation techniques -Sketching, Drawings and Simple jewellery designing. 2. Combining traditional jewellery techniques with experimental material, 	
UNIT-3: Colour rendering techniques	24Hours.

Types of Golds – Rending of gold (22k, 18k, and 16K) different colour gold rendering: Rose gold white gold, silver finish. Polish techniques & rending on metal surfaces. Sculpture and Jewellery drawing. Motif development-form generation & Manipulation, Translating motif compositions into Jewellery design.

. Six practical's of 4 Hrs each.

1. Data collection, Market study, Survey of Identification of ancient jewellery using Sanskrit, Hindi & other metallic coins and their trend,
2. Representation techniques -Sketching, Drawings.

CONTENT OF COURSE JD-P 1.3: ORTHOGRAPHIC DRAWING	
Total Teaching Hours-84	Total Credits-3
COURSE OUTCOME:	
<ul style="list-style-type: none"> • Introducing students to fundamental techniques of 2d & 3d drawing • To upskill the knowledge of understanding the different views in Jewellery. • Enhancing the skills in developing a graphical language of Jewellery. • To impart knowledge about different types of projections 	
UNIT-1:Introduction & importance	16 Hours
<p>Introduction to Orthographic drawing, six principle views, and the glass box method, Importance of Orthographic drawing. Understanding different views in terms of Jewellery designing, Top view, side view, prospective views.</p> <p>Four practical's of 4 Hrs each.</p> <ol style="list-style-type: none"> 1. Exercises in drawing views, scales and Dimensions. 2. Construction of Geometrical Shapes-polygons, volutes. 	
UNIT-2:Presentation Techniques	12 Hours
<p>Rendering Skills, Material Representations. Three practical's of 4 Hrs each.</p> <ol style="list-style-type: none"> 1. Rendering using various media, hatching techniques. Representation techniques of materials in Drawings 	
UNIT-3:Orthogonal Projections	16 Hours
<p>Orthogonal projections, elevations of various types of objects. Four practical's of 4 Hrs each.</p> <ol style="list-style-type: none"> 1. Orthogonal Projections of different types of objects 2. Representation techniques -Sketching, Drawings. 	

UNIT-4:Development of Surfaces	16 Hours
<p>Development of Surfaces of Objects. Four practical's of 4 Hrs each.</p> <ol style="list-style-type: none"> 1. Developments of Pyramids, Cones, cubes spheres 2. Representation techniques -Sketching, Drawings and drafting. 	
UNIT-5:Isometrix,Axonometric & Oblique Projections	12 Hours
<p>Drafting of Isometric Views, Axonometric Views and Oblique Views, Different objects and Jewellery related views & Objects.</p> <p>Three practical's of 4 Hrs each.</p> <ol style="list-style-type: none"> 1. Isometric projections of various objects and views. 2. Representation techniques -Sketching, Drawings, drafting and rendering. 	
UNIT-6:Perspective Projections	12 Hours
<p>Drawing of Perspective drawing of simple and complex objects, one point and two-point perspective.</p> <p>Three practical's of 4 Hrs each.</p> <ol style="list-style-type: none"> 1. Perspective drawing procedures step by step. Drawing perspectives of various objects and Jewellery views. 2. Representation techniques -Sketching, Drawings, drafting and rendering. 	

REFERENCE BOOKS:

1. Shane Templeton and Donald R. Bear , Development of Orthographic Knowledge and the Foundations of Literacy , Publisher : Routledge; 1st edition (13 May 2016).
2. Manuela Brambatti and Cosimo Vinci, Jewellery Illustration and Design , Publisher : Promo press (1 October 2018)
3. Maria Josep Forcadell Berenguer , Drawing for Jewelers , Publisher : Schiffer Publishing Ltd; Translation edition (18 May 2012)
4. Charles Quinlan , Orthographic Projection Simplified (Other Technology) , Publisher : Glencoe/McGraw-Hill School Pub; Student edition (31 January 1995)
5. Wucius Wong , Principles of Two-Dimensional Design , Publisher : Wiley; 1st edition (1 December 1972)

SEMESTER II

JD-T2.1 GEMOLOGY		JD-P 2.1 GEMOLOGY lab			
Number of Theory Credits	Number of lecture hours/semester	Number of Theory Credits	Number of Practical hours/semester		
3	42	2	56		
JD-T 2.2 JEWELLERY ILLUSTRATION		JD-P 2. 2 JEWELLERY ILLUSTRATION lab		JD –P 2.3 DIGITAL JEWELLERY STUDIO Lab-1	
Number of Theory Credits	Number of lecture hours/semester	Number of Practical Credits	Number of Practical hours/semester	Number of Practical Credits	Number of Practical hours/semester
3	42	2	56	3	84

CONTENT OF COURSE JD-T 2.1: GEMOLOGY

Total Teaching Hours-42

Total Credits-3

COURSE OUTCOME:

- To enable students to understand the Properties of gemstones and importance in Jewellery design.
- To enable the students to understand to identify the natural stones from imitation.
- To understand the formation of gem stones
- To induce knowledge on synthetic gem stones and treatments

UNIT-1: Introduction to Gemology.

12 hours

Chapter 1

Overview of gemstones, History of gems, Learning the general observations of gemstones - Color, Luster, Phenomena, Fracture, Habit etc, Carat: Carat meaning, history. Different units of conversation of carat to points, cents, grams and milligrams.

Chapter 2

Formation of gemstones- Different types of rocks, Pegmatite rocks, subduction, Mining: Different mining operations of gemstones- open pit mining- alluvial mining-Underground Mining,

Chapter 3

Loupe and Refractometer- Applications and uses, Polari scope and Dichroscope - Applications and uses, Microscope and Spectroscope - Applications and uses, Chelsea filter, Tripod, Calipers & Leveridge Gauges - Applications and uses, Grading gemstones according to GIA standards, Grading gemstones according to other international standards.

UNIT-2: Species & Varieties :

15 hours

Chapter 4:

Ruby: Sapphire: Emerald, Quartz and chalcedony, Opal: Tourmaline: Peridot, Topaz: Beryl: Chrysoberyl, Tanzanite: iolite: andalusite: Zircon: Garnet, Lapis lazuli: Turquoise: Spinel: Feldspar: Etc

Chapter 5:

Study of Physics for gemstone: Introduction to light, Types of light used in gemology lab: Reflection, Refraction, and Color: Hue, tone, Saturation, Physical & Optical properties: Hardness: Scratch Hardness, Moh's Hardness Sale, and Density: Determination of density by different methods. Crystallography.

Chapter 6:

Pearl – Properties and identification, Natural & cultured Pearls- Properties and identification, Jet- Properties and identification, Ivory - Properties and identification, Coral - Properties and identification, Amber- Properties and Identification.

UNIT-3: Synthetic Gem stone & Treatments	15 hours
<p>Chapter 7: Introduction to treatments: Heat treatment, Lattice and beryllium diffusion, Smoke and sugar Treatment, Ceramic process, Coating, Doublet, Fracture filling. Identification of treated gem stones.</p> <p>Chapter 8: Wax impregnation, Oiling, Quench Cracking etc, Introduction to Synthetic gemstones: Flame Fusion, Skull Method, Hydrothermal Process, The process method</p> <p>Chapter 9: Imitation Gemstones and its identification & glass.</p>	

REFERENCE BOOKS

1. Anderson and Basil W ,Gem testing , Publisher: Butterworths; 10th edition (August 30, 1990)
2. Anderson, Basil W and James Payne , The Spectroscope and Gemmology , Publisher: Gemstone Press; 2nd edition (October 1, 2006)
3. Aja Raden , Stoned: Jewelry, Obsession, and How Desire Shapes the World , Publisher: Ecco; Reprint edition (November 29, 2016)
4. John Farndon , Rocks, Minerals and Gems , Publisher: Firefly Books; Illustrated edition (September 13, 2016)
5. Antoinette Matlins and Antonio C , Gem identification made easy , Publisher: GemStone Press; 6th Edition, New, Updated and Expanded (August 30, 2016)

CONTENT OF COURSE JD-P 2.1: GEMOLOGY Lab	
Total Teaching Hours-56	Total Credits-2
<p>COURSE OUTCOME:</p> <ul style="list-style-type: none"> • To enable the students to understand to identify the natural stones from imitation. • To understand the formation of gem stones • To induce knowledge on synthetic gem stones and treatments • To understand organic gemstones. 	
UNIT-1: Introduction To Gemstone Identification	16 Hours
<p>Observation using loupe, Observation using Microscope, Instrument studies & application of instruments in understanding the properties of gem stones.</p> <p>Four practical's of 4 Hrs each.</p> <ol style="list-style-type: none"> 3. Understanding of Density, Polariscopic study, Dichroscope. 4. Understanding of physical & optical properties of gem stone using instruments. 	
UNIT-2: Gemstone Identification	24 Hours
<p>Ruby: Sapphire: Emerald, Quartz and chalcedony, Opal: Tourmaline: Peridot, Topaz: Beryl: Chrysoberyl, Tanzanite: iolite: andalusite: Zircon: Garnet, Lapis lazuli: Turquoise: Spinel: Feldspar: Etc</p> <p>Six practical's of 4 Hrs each.</p> <ol style="list-style-type: none"> 3. Identifying gemstones using instruments. 4. Market understanding of gem stone with usage of jewellery. 	
UNIT-3: Gemstone Identification: Organic Gemstones	16 Hours.

Pearl – Properties and identification, Natural & cultured- Properties and identification, Jet- Properties and identification, Ivory - Properties and identification, Coral - Properties and identification, Amber- Properties and identification

. Four practical's of 4 Hrs each.

3. Data collection, Market study, Survey of Identification of organic gem stone,
4. Usage of organic gemstone in Jewellery.

CONTENT OF COURSE JD- 2.2 T: JEWELLERY ILLUSTRATION 1	
Total Teaching Hours-42	Total Credits-3
COURSE OUTCOME:	
<ul style="list-style-type: none"> • To understand the concept of motifs generation. Stylizing the motifs in Jewellery construction • To learn the methods, techniques of stone setting in Jewellery. • To upskill their knowledge on types of finishing and findings done on Jewellery. • To know about the jewelries of different eras. 	
UNIT-1: INTRODUCTION TO TYPES OF JEWELLERY	16 Hours
<p>Chapter 1: Dimensions and scales, Different measurements used in Jewellery. Standard measurements & calculation as per industry standards.</p> <p>Chapter 2: Motif generation, composition with motifs-formal / informal & Positive and negative, motif development-form generation & Manipulation, Translating motif compositions into Jewellery design. Techniques of motif generation, Modulations and Variations, Stylized motifs.</p> <p>Chapter 3: Gemstones, Stone facets, Carved gemstones, Cabochon gemstones, Cameos, Inlay and engraving techniques</p>	
UNIT-2: JEWELLERY TECHNIQUES	13 Hours
<p>Chapter 4: Types of Jewellery setting- Prong, Pave , Channel , Bezel , Pressure, invisible, illusion , tension and Cluster</p> <p>Chapter 5: Types of Metal finishing techniques- Hammered, Smooth, oxidized, sandblast, textured, fine finish</p> <p>Chapter 6: Different types of findings- Post, Bail, Hinges, Clasps, Wires etc.</p>	
UNIT-3: JEWELLERY ERAS	13 Hours

Chapter 7:

Retro Jewelry (Circa 1935 - 1950) , Georgian Era , Edwardian Era

Chapter 8:

Victorian era Jewellery, Mid and late Victorian period

Chapter 9:

Art Nouveau, Art Deco, Retro Era, Mid-Century Jewellery , Modern Jewellery

.

REFERENCE BOOKS:

1. Tish Pollack , The Essential Guide to Epic Jewelry Design , Publisher: Crescendo Publishing LLC (October 20, 2017)
2. Suzanne Ramljak , Unique by Design: Contemporary Jewelry in the Donna Schneier Collection , Publisher: Metropolitan Museum of Art; Illustrated edition (July 15, 2014)
3. Karen Dougherty , Metal Style: 20 Jewelry Designs with Cold Join Techniques , Publisher: Interweave (May 10, 2011)
4. Cosimo Vinci and Alessandra Possamai , Jewellery Illustration and Design, vol.1: From Technical Drawing to Professional Rendering , Publisher: Promopress; 1st edition (October 1, 2018)
5. Dominique Audette , Jewelry Illustration , Publisher: Brynmorgen Press; First edition (February 10, 2010)

CONTENT OF COURSE JD- 2.2 P: JEWELLERY ILLUSTRATION Lab -1	
Total Teaching Hours-56	Total Credits-2
UNIT-1:Illustration of Gemstones	20 Hours
<p>Rendering of Gemstones, Introduction, Drawing the stones, Drawing faceting and shading Round Brilliant stone, Pear shape and Marquise shape stones, emerald cut stones and Baguettes, Steps in rendering colour faceted stones, Rendering of Cabochon gem stones</p> <p>Five practical's of 4 Hrs each.</p> <ol style="list-style-type: none"> 1. Illustration of a diamond ring 2. Illustration of a simple pendant using different gemstones 	
UNIT-2:Illustration of Earrings and Rings	16 Hours
<p>Earrings - Introduction, Illustrating the Earring top and side view</p> <p>Rings - Introduction, Illustrating the ring top, side view and end view, Understanding perspective. Four practical's of 4 Hrs each.</p> <ol style="list-style-type: none"> 1. Illustration of earrings 2. Illustration of rings. 	
UNIT-3: Illustration of Pendants, Bangles and Bracelets	20 Hours
<p>Pendants- Introduction, Illustrating the pendants top and side view</p> <p>Bangles and Bracelets- Introduction, Illustrating the Bangles and bracelets top and side view Five practical's of 4 Hrs each.</p> <ol style="list-style-type: none"> 1. Illustration of Pendants, chains. 2. Illustration of Bangles and Bracelets 	

CONTENT OF COURSE JD- 2.3 P: DIGITAL JEWELLERY STUDIO Lab -1	
Total Teaching Hours-84	Total Credits-3
COURSE OUTCOME:	
<ul style="list-style-type: none"> • To enable students to understand the importance of Corel draw in Jewellery Design • Application of Corel Draw tools in Jewellery design. • Creation of gem stones using Corel Draw in 2D forms. • To learn Jewellery creation using Corel Draw <p>Note: Practical's to be conducted using Corel Draw software.</p>	
UNIT-1:Fundamentals of Corel Draw	12Hours
Introduction to Corel Draw, importance and application of Corel Draw in Jewellery. Fundamentals of computers, file menu-saving closing files, importing and exporting files, saving files in different formats.	
UNIT-2:Draw menu & its application	12Hours
Introduction to the CorelDraw program, Menu bar & Drawing Toolbox Overview of Drawing tools Editing the object Basic shapes Shape Tools Fountain fill Gold shading Assignment- Exercises on creating new files & save as with different names, creating objects with types of materials. Different shapes.	
UNIT-3:Gemstone creation	14 Hours
Introduction to drawing types of colored stones, diamonds , Bagget setting and types of setting drawing limits units, object selection, drafting, setting, polar tracking, grid and snap, its application advantages and uses.	
UNIT-4:Edit menu and its applications	14 Hours
Introduction to object editing, types in editing the drawing with different command trim, extend, stretch, erase delete, introduction to viewing, types of viewing – zoom, pan, hatch boundary, hatch, editing, introduction to layers, types of layer creation. Assignment – Creating a simple Rings	
UNIT-5: Gem stone setting	16 Hours

Introduction: Prong settings, Pave, Channel settings, Flush settings, Pearl Cups, Invisible settings, Bezel application and Importance , Micoprong setting in U and square (as seen in eternity bands),. Technicalities for faceted, cabochons, gem beads (ovals, pumpkins, drops.) Assignment- Design Jewellery using different setting.	
UNIT-6:Jewellery Creation	16 Hours
Introduction to creation of solid, wireframe, objects, basic rendering skills, use of viewport command, different options of view command. Assignment-Creating different types of Jewellery.	

REFERENCE BOOKS

1. Satish Jain and M Geetha , Corel Draw Training Guide , Publisher: BPB Publications (June 18, 2018)
2. Steven Bright , CorelDraw How: The Fundamental of CorelDraw , Publisher: Independently published (August 17, 2017)
3. Gary David Bouton , CorelDraw X8: The Official Guide , Publisher: McGraw Hill; 12th edition (February 6, 2017)
4. Steve Bain , CorelDraw(R) 11: The Official Guide , Publisher: McGraw-Hill Osborne Media; 1st edition (August 16, 2002)
5. U. C-Abel Books , CorelDraw Keyboard Shortcuts , Publisher: U. C-Abel Books; 1st edition (February 24, 2017)

I SEMESTER-OPEN ELECTIVE	
JD OE 01: STUDY OF JEWELLERY PRODUCTS	
Total Teaching Hours-42	Total Credits-3
COURSE OUTCOME:	
<ul style="list-style-type: none"> • This course intends to upskill the students on the significant classifications and sub types in Jewellery • Gain the knowledge on classification of Jewellery products, • Enables the students to understand the types of Jewellery products used in different cultures. • Helps gain knowledge on the historical aspects of Jewellery products. 	
UNIT-1: Introduction , Rings and Earrings	12 Hours
<p>Chapter-1 Introduction to Jewellery, origin of Jewellery. Historical aspects of art & Jewellery. History of ornaments and types of Jewellery used in different cultures in India.</p> <p>Chapter-2 Introduction to historical perspective on rings, Classification of rings - Bridal rings- wedding bands, engagement rings, bridal set rings, Solitaire rings, eternity rings, promise rings, Cluster rings, Right Hand rings, Cocktail rings, other fancy rings</p> <p>Chapter-3 Introduction and historical perspective on earrings, Classification of Studs & earrings, On the ear -Studs and buttons, Hanging style - Drops, dangles Hoop style- Huggies, Bali's etc., styles - Chandeliers, Shoulder dusters etc.</p>	
UNIT-2: Pendants , Necklaces and Bangles	15 Hours

<p>Chapter-4 Introduction and historical perspective on Pendants, Classification of Pendants- Locket, medallions, tassels, sliders etc,</p> <p>Chapter-5 Introduction and historical perspective on Necklaces, Classification of necklaces- by lengths, Types of necklaces- Bib, collarets, Festoon, Riviere, Necklace, Asymmetrical etc. Scale and standard measurement of different types of necklaces.</p> <p>Chapter-6 Introduction and historical perspective on Bangles and Bracelets, Classification- Bangles, Fixed and elliptical bracelets, Tennis bracelets, link bracelets, Cuff bracelets, charm Bracelets. Standard measurement of bangles & bracelets.</p>	
<p>UNIT-3: Study of other Jewellery products</p> <p>Chapter-7 Introduction and historical perspective, Brooches, cufflinks, tiepins, Tiara, head ornaments, nose pins etc, Belt style ornaments, anklets and other foot ornaments.</p> <p>Chapter-8: Introduction about gemstones, Understanding the precious gemstones, Study about Navaratna stones and its properties.</p> <p>Chapter 9: Introduction about Diamonds, Diamond formation, Properties of Diamond. Diamond simulants, Basic concept of 4C's.</p>	<p>15 Hours</p>

REFERENCE BOOKS

1. David Bennet , Understanding Jewellery , Publisher: Acc Art Books; Reprint edition (June 25, 2021)
2. Hugh Tait , 7000 Years of Jewelry , Publisher: Firefly Books; Updated edition (September 12, 2008)
3. Bernadette van Gelder , Traditional Indian Jewellery , Publisher : Acc Art Books (September 6, 2018)
4. Dexter Cirillo , Southwestern Indian Jewelry , Publisher : Abbeville Press; First Edition (July 1, 1992)
5. Baxter ,Southwestern Indian Rings , Publisher : Schiffer; 1st edition (October 17, 2011)

II SEMESTER-OPEN ELECTIVES	
JD-OE 02: SOCIO - CULTURAL HISTORY OF JEWELLERY	
Total Teaching Hours-42	Total Credits-3
COURSE OUTCOME:	
<ul style="list-style-type: none"> • It provides the Basic History of art & Jewellery. • Provides an understand of Indian art forms & techniques • Gives knowledge of jewelries of different eras • Provides insight about ornaments of different states in India. 	
UNIT-1: History of Indian Jewellery	15 Hours
<p>Chapter-1</p> <p>Introduction to art and ornament. The origin of early ornament, Paleolithic ornament, The middle age / masterpiece of middle age, Materials used in Jewellery and ancient methods, Baroque to revolution History of Indian Jewellery (The origin and growth of Jewellery in India), Types of Indian Jewellery and A historic recount of Mughal Jewellery, Significances of Indian Jewellery, and Tribal Jewellery.</p> <p>Chapter-2</p> <p>Identification of ancient Jewellery using Sanskrit, Hindi & other metallic coins and their trend, Specialty in ornaments worn by people in different state and region, Importance of Jewellery – Currency, Functional use, Symbolism, Protection, Artistic Display and Personal Expression. Modern trends in Jewellery designs in India, Application of knowledge on ancient Indian Jewellery to design modern Jewellery.</p> <p>Chapter-3</p> <p>Introduction to metals used in Jewellery- precious metals, Gold- properties of gold, occurrence, extraction methods, recovery and refining process, Alloys of gold, gold testing methods, Silver- properties of silver, occurrence and extraction of silver, alloys of silver, silver testing methods, Platinum group- Properties of Platinum, occurrence and extraction of Platinum, alloys of platinum, platinum working methods, Other metals used in Jewellery- copper, brass, aluminium etc, their properties, Metals used in Jewellery tools and industries</p>	
UNIT-2: Eras in Jewellery	15 Hours

Chapter-4	
Art Deco or style modern .Etymology, origins and history, Art deco characteristics and materials, Retro, Influence.	
Chapter-5	
Jewellery Eras from 18th& 19th century Great Britain. Georgian era Jewellery (1714 to 1830, Victorian era Jewellery (1837 to 1901)...mid and late Victorian period, Edwardian period Jewellery, La Belle époque Jewellery (1895 to 1914)	
Chapter-6	
Art Nouveau Origins, Form and character, Relationship with contemporary style and movements, Sculpture and Jewellery.	
UNIT-3: Marriage and Jewellery	12 Hours
Chapter-1	
Regional marriage ornaments of Northern India: Jammu & Kashmir, Himachal Pradesh, Punjab	
Chapter-2:	
Regional marriage ornaments of Southern India: Kerala, Tamil Nadu – Temple Jewellery	
Chapter-3:	
Marriage ornaments of other states: Maharashtra, West Bengal, and Orissa.	

REFERENCE BOOKS:

1. Oppi Untracht, Traditional jewellery of India, Publisher : Thames & Hudson ltd (12 may 1997).
2. Asharani Mathur, A Jewelled Splendour, Publisher : Rupa; 2002nd Edition (1 October 2002)
3. Bernadette Van Gelder ,Traditional Indian Jewellery, Published:16th Nov 2017
4. Stellene Volandes, Jewels That Made History, Publisher : Rizzoli (October 13, 2020)
5. Joan Evans, A History of Jewellery 1100-1870, Publisher : Boston Book and Art; 2nd edition (January 1, 1970)