GUJARAT TECHNOLOGICAL UNIVERSITY (GTU)

Competency-focused Outcome-based Green Curriculum-2021 (COGC-2021)
Semester - VI

Course Title : Project - II
(Course Code: 4365105)

Diploma programme in which this course is offered	Semester in which offered
Computer Aided Costume Design & Dress Making	Sixth

1. RATIONALE

This course will enable the students to apply the knowledge and skills developed throughout the programme for implementing the solution of the problem. This course includes designing and implementation of the solution of the identified problem, create product and prepare the project report within the time allocated. This course also aims to develop ethics and managerial skills such as leadership, coordination, teamwork, planning the resources etc. in tune with the current needs of the society and industry through creativity and innovation.
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2. COMPETENCY

The course content should be taught and implemented with the aim to develop different types of skills leading to the achievement of the following competency:

- **Develop innovative and feasible problem solution optimising the available resources.**

3. COURSE OUTCOMES (COs)

The practical exercises, the underpinning knowledge and the relevant soft skills associated with the identified competency are to be developed in the student for the achievement of the following COs:

a) Acquire the resources required for the development/modification of products or processes.
b) Develop innovative products or process using suitable technique and material.
c) Modify the developed products or process.
d) Complete the developed products or process.
e) Prepare report of the project.

4. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P/2)	Examination Scheme				
				Theory Marks		Practical Marks		Total Marks
L	T	P	C	CA	ESE	CA	ESE	
0	0	6	3	0	0	50	50	100

This is designed to facilitate attainment of COs holistically, as there is no theory ESE.

Legends: L-Lecture; **T** – Tutorial/Teacher Guided Theory Practice; **P** -Practical; **C** – Credit,

CA - *Continuous Assessment; ESE -End Semester Examination.*

5.   SUGGESTED PRACTICAL EXERCISES   NA

6.   MAJOR EQUIPMENT/ INSTRUMENTS REQUIRED

This major equipment with broad specifications for the PrOs is a guide to procure them by the administrators to user in uniformity of all institutions across the state.

Sr. No.	Equipment Name with Broad Specifications	PrO. No.
	As per the requirement	

7.   AFFECTIVE DOMAIN OUTCOMES

The following *sample* Affective Domain Outcomes (ADOs) are embedded in many of the above-mentioned COs and PrOs. More could be added to fulfil the development of this course competency.

   a)   Work as a leader/a team member.
   b)   Practice good housekeeping and environment friendly method.
   c)   Follow ethical practices.

The ADOs are best developed through the laboratory/field-based exercises. Moreover, the level of achievement of the ADOs according to Krathwohl's 'Affective Domain Taxonomy' should gradually increase as planned below:

   i.   'Valuing Level' in 1st year.
   ii.   'Organization Level' in 2nd year.
   iii. 'Characterization Level' in 3rd year.

8.   UNDERPINNING THEORY

The major underpinning theory is given below based on the higher level UOs of Revised Bloom's taxonomy that are formulated for development of the COs and competency. If required, more such UOs could be included by the course teacher to focus on attainment of COs and competency.

Unit	Unit Outcomes (UOs) (4 to 6 UOs at different levels)	Topics and Sub-topics
	Not Applicable	

9.   SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	Total Marks
	Not Applicable					

Legends: R=Remember, U=Understand, A=Apply and above (Revised Bloom's taxonomy)

10. SUGGESTED STUDENT ACTIVITIES

These are sample strategies, which the teacher can use to accelerate the attainment of the various outcomes in this course:

a) Prepare questionnaire for taking preference from the concerned respondents.
b) Estimate cost of the developed products.
c) Take the preference from minimum 50 respondents.
d) Analyze data of the collected responses.

11. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES (if any)

Sr. No.	Description	Marks
1.	Procure suitable materials for product/process development.	03
2.	Adopt the optimized methodology for developing the product/process.	05
3.	Prepare products/process based on the preferences collected in Project -I. • 3-5 garments (depending on the size of the garment) • 3-5 accessories/ set of accessories (depending on the size of the accessories) • 3-5 set of jewelleries (4-5 piece per set depending on size) • 3-5 articles (depending on the size of the articles)	25
4.	Analyze the developed products/process.	03
5.	Prepare project report using the prescribed format.	07
6.	Presentation of the final project.	07
	TOTAL	50

12. SUGGESTED MICRO-PROJECTS   NA

13. SUGGESTED LEARNING RESOURCES

Sr. No.	Title of Book	Author	Publication with place, year and ISBN
1	Research Methodology (Methods and Techniques)	C. R. Kothari	New Age International Publishers ISBN: 978-81-224-1522-3
2	Research Methodology	Dipak Kumar Bhattacharyya	Excel Books ISBN: 81-7446-497-2

14. SOFTWARE/LEARNING WEBSITES

a) https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/circulars/12Aug/13082012_03.pdf
b) https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Internship___Project_Report_Guidelines__3180701__661242.pdf

15. PO-COMPETENCY-CO MAPPING

Semester VI	PROJECT - II (Course Code: 4365105)						
	POs						
Competency & Course Outcomes	PO 1 Basic & Discipline specific knowledge	PO 2 Problem Analysis	PO 3 Design/ development of solutions	PO 4 Engineering Tools, Experimentation & Testing	PO 5 Engineering practices for society, sustainability & environment	PO 6 Project Management	PO 7 Life-long learning
Competency	Develop innovative and feasible problem solution optimising the available resources.						
Course Outcomes CO a) Acquire the resources required for the development / modification of product or process.	3	3	2	2	2	2	3
CO b) Develop innovative product or process using suitable technique and material.	3	3	3	2	3	3	3
CO c) Modify the developed product or process.	3	3	3	3	3	3	3
CO d) Complete the developed product or process.	3	2	2	2	3	3	3
CO e) Prepare report of project.	3	3	2	2	2	3	3

Legend: '3' for high, '2' for medium, '1' for low and '-' for no correlation of each CO with PO.

16. COURSE CURRICULUM DEVELOPMENT COMMITTEE

GTU Resource Persons

Sr. No.	Name and Designation	Institute	Contact No.	Email
1	Dr. F. V. Kugashiya HOD in CACD&DM	GGP, Ahmedabad	9825697874	farjana.kugashiya@gmail.com
2	Mrs. S. H. Bhatt Lecturer in CACD&DM	GGP, Ahmedabad	9898068580	shbhatt99@gmail.com
3	Mrs. U. B. Patel Lecturer in CACD&DM	SKJP, Bharuch	9825343953	ubpatel74@gmail.com
4	Ku. R. M. Neog Lecturer in CACD&DM	SKJP, Bharuch	9427878160	jyotirup14@gmail.com

Appendix – 1

Certificate Format

This is to certify that Ms._____

from _____ college

having Enrollment No: _____ has completed **Final**

Project Report having title _____

_____

, individually / in a group consisting of _____ persons under the

guidance of the Faculty Guide _____.

The mentor from the industry for the project:

Name:

Industry:

Contact Details:

Institute Guide – IDP/ Industry Guide – IDP   Head of Department

Appendix – 2

Project Report Guidelines

PAPER: Use A4 (210mm X 297mm) Paper.

MARGINS: Margins for pages including the regular text should be as below:
>   Left : 1.25 Inches
>   Right : 1.0 Inch
>   Top : 1.0 Inch
>   Bottom : 1.0 Inch

CONTENTS: Following should be the order of contents for the report. This order should be strictly maintained.

1. **Cover Page**
2. **Certificate (**Appendix – 1**,** format prescribed by GTU)
3. **Acknowledgement**
4. **Abstract**
5. **List of Figures**
6. **List of Tables**
7. **Index**
8. **Chapters**
   8.1. **Introduction**
       8.1.1. **Definition of the problem**
       8.1.2. **Introduction of the topic**
       8.1.3. **Objectives**
   8.2. **Review of literature**
   8.3. **Methodology**
   8.4. **Utility of the Project work and the probable other applications**
9. **Appendix (optional)**
10. **References / Bibliography**

Cover Page /Title Page – Kindly follow the above link for GTU guideline.

Certificate – The Certificate shall be in double line spacing using Font Style Times New Roman and Font Size 14, as per the format in Appendix 1.

Abstract – Abstract should be one-page short description of the project report typed 1.5 line spacing, Font Style Times New Roman, italics and Font Size 14.

List of Figures – The list should use the same captions as they appear below the figures in the text. One and a half spacing should be adopted for typing the matter under this head. Figure copied from some paper or website must be captioned with "Courtesy of __ _"

List of Tables – The list should use the same captions as they appear above the tables in the text. One and a half spacing should be adopted for typing the matter under this head.

Index – The table of contents should list all material following it. One and a half spacing should be adopted for typing the matter under this head.

Chapters – The chapters may be broadly divided as given.
- Introduction
  a) Definition of the problem
  b) Introduction of the topic
  c) Objectives
- Review of literature
- Methodology
- Utility of the Project work and the probable other applications

PREPARATION OF CHAPTERS

Colour:
All the text including Tables should be Black prints. However, Graphs and Figures can have colour prints.

Font:
Chapter Headings: Times New Roman 16pts, bold print all capitals
Section Headings: Times New Roman 14 pts, bold print all capitals
Subsection Headings: Times New Roman 12 pts, bold print leading capitals (only first letter in each word should be capital
Regular Text: Times New Roman 12 pts, normal prints
Special Text: Times New Roman Italics 12 pts (for foot notes, symbols, quotes, Mathematical notations….)

- Use 1.5 spacing between lines of regular text.
- Use single spacing between:
- Text corresponding to bullets, listing and quotes in the main body of text.
- All paragraphs in the report are to be fully justified from the first line to the last line and should start from left without any hyphenation/indent. Text corresponding to bullets, listings and quotes in the main body of text should be indented.

Appendices – Appendices are provided to give supplementary information such as Questionnaire. (Appendices should be numbered using Arabic numerals, e.g. Appendix 1, Appendix 2, etc.).

List of References – The listing of references should be typed 4 spaces below the heading "REFERENCES" in alphabetical order in single spacing left – justified.
a) The reference material should be listed in the alphabetical order of the first author. The name of the author/authors should be immediately followed by the year and other details.
b) Website citation must be very specific not like 'google.com' or 'wikipedia.org'.
c) Figure copied from some paper or website has to be captioned with "Courtesy of_"

A typical illustrative list given below relates to the citation example quoted above.

REFERENCES

1. Ariponnammal, S. and Natarajan, S. (1994) 'Transport Phonomena of Sm Sel – X Asx', Pramana – Journal of Physics Vol.42, No.1, pp.421-425.
2. Barnard, R.W. and Kellogg, C. (1980) 'Applications of Convolution Operators to Problems in Univalent Function Theory', Michigan Mach, J., Vol.27, pp.81–94.