

Diploma in Garment Technology

II Semester

TEACHING AND EXAMINATION SCHEME

Sl No	Course Code	Course Name	Teaching Scheme					Examination Scheme						
			Instruction periods per week			Total Periods per semester	Credits	Continuous internal evaluation			Semester end examination			
			L	T	P			Mid sem 1	Mid sem 2	Internal evaluation	Max Marks	Min Marks	Total marks	Min marks for passing including internal
1	18GT-201F	Communicative English	3	1	0	60	3	20	20	20	40	14	100	35
2	18GT-202C	Process Control and Yarn Technology	3	1	0	60	3	20	20	20	40	14	100	35
3	18GT-203C	Fabric Formation Technology	3	1	0	60	3	20	20	20	40	14	100	35
4	18GT-204C	Pattern Engineering and Dress Components	3	1	0	60	3	20	20	20	40	14	100	35
5	18GT-205C	Fashion Concepts and Embellishments	3	1	0	60	3	20	20	20	40	14	100	35
6	18GT-206P	Fabric Formation Technology Lab Practice	1	0	2	45	1.5	20	20	20	40	20	100	50
7	18GT-207P	Pattern Engineering and Dress Components Lab Practice	1	0	2	45	1.5	20	20	20	40	20	100	50
8	18GT-208P	Fashion Concepts and Embellishments Lab Practice	1	0	2	45	1.5	20	20	20	40	20	100	50
9	18GT-209P	Needle Crafts Lab Practice	1	0	2	45	1.5	20	20	20	40	20	100	50
10	18GT-210P	Information Technology Lab Practice	1	0	2	45	1.5	20	20	20	40	20	100	50
11		Skill Upgradation	0	0	7	105	2.5	0	0	Rubrics		--	-	
			20	5	17	630	25	200	200	200	400	170	1000	425
11	Activities: student performance is to be assessed through Rubrics													

Department of Technical Education
State Board of Technical Education & Training, Telangana

Course Title : Advanced English	Course Code : 18GT-201F
Semester : II	Course Group : Foundation
Teaching Scheme in Periods (L:T:P) : 36:24:0	Credits : 3
Methodology : Communicative Language Teaching + Assignments	Total Contact Hours : 60 periods
CIE : 60 Marks	SEE : 40 Marks

Prerequisites: Basic knowledge of English Language

COURSE OUTCOMES

	At the end of the course the students will have the ability to:
201.1	learn homonyms and one word substitutes and use them in professional interaction
201.2	listen for specific purpose and use appropriate prepositions.
201.3	acquire values through stories and reports
201.4	write resumes, reports and make notes
201.5	work in pairs and groups confidently
201.6	analyse errors and make communication flawless

CO-PO Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	Mapping POs
201.1	2	2	2	--	1	--	--	3	3	3	1,2,3,5,8,9,10
201.2	2	2	1	2	--	--	--	3	3	3	1,2,3,4,8,9,10
201.3	2	2	--	1	1	1	2	3	3	3	1,2,4,5,6,7,8,9,10
201.4	2	2	2	2	1	--	2	3	3	3	1,2,3,4,5,7,8,9,10
201.5	2	2	2	--	1	--	2	3	3	3	1,2,3,5,7,8,9,10
201.6	2	2	--	--	--	--	--	3	3	3	1,2,8,9,10

COURSE CONTENTS

UNIT – 1 SPEAKING

Duration: 10 Periods

1. Expressing Obligation

2. Fixing and Cancelling Appointments
3. Extending and Accepting Invitations
4. Giving Instructions
5. Asking for and Giving Directions

UNIT - 2: LISTENING

Duration: 6 Periods

6. The Here and Now!

UNIT -3: VOCABULARY

Duration: 6 Periods

7. How to Learn a New Word
8. Synonyms, Antonyms and One word Substitutes

UNIT -4: GRAMMAR

Duration: 12 Periods

9. Reported Speech
10. Error Analysis - I
11. Error Analysis - II
12. Error Analysis - III

UNIT - 5: READING

Duration: 6 Periods

13. An Environmental challenge
14. The Will to Succeed
15. Waiting for Mr. Clean

UNIT- 6: WRITING

Duration: 20 Periods

16. Data Interpretation- I
17. Data Interpretation- II
18. Data Interpretation- III
19. Writing a Resume
20. Writing a Cover Letter
21. Note Making
22. Writing a Report

Specific Learning Outcomes:

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

- express obligation, fix and cancel appointments, extend –accept and decline invitations.
- give instructions and directions
- identify and use prepositions
- learn homonyms and use one word substitutes
- read and understand main ideas and answer the questions
- understand and write reported speech
- identify and correct common errors
- interpret data
- learn to prepare cover letter and resume
- make notes and write reports

Internal evaluation

Test	Units	Marks	Pattern
Mid Sem 1	Speaking Listening	20	Part A 5 Short answer questions Part B 2 Essay questions out of 3 Questions Part C 2 Essay questions out of 3 Questions
Mid Sem 2	Vocabulary Grammar	20	Part A 5 Short answer questions Part B 2 Essay questions out of 4 Questions Part C 2 Essay questions out of 3 Questions
Slip Test 1	Speaking Listening	5	2 Essay Questions out of 3 Questions
Slip Test 2	Vocabulary Grammar	5	2 Essay Questions out of 3 Questions
Assignment	One assignment per one semester	5	Different group assignments of Higher order Questions that develop problem solving skills and critical thinking should be given
Seminars	One seminar per one semester	5	

	Total	60	
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Suggested Student Activities:

- Listen to a song and answer the questions
- Listen to a passage/conversations/dialogues/speeches and answer the questions
- Group Discussions
- Student Presentations
- Seminars
- Talk about a movie/review
- Talk about a book
- Narrating a story
- Chain stories
- JAM on topics like environment, pollution, ethics, morals, responsibilities of citizens
- Speak about incidents/events/memories/dreams/role model
- Interview with famous personalities
- Cricket commentary
- Reading for main ideas
- Reading for specific details
- Summarizing
- Picture description
- Writing a recipe
- Surprise test
- Compare and contrast two people/pictures/news items/ideas etc
- Surveys
- Filling forms
- e-mail etiquette

Textbook: English for Polytechnics

REFERENCES:

1. Practical English Grammar by A.J Thomson and A.V. Martinet
2. A Course in Phonetics and Spoken English by J. Sethi and P.V Dhamija
3. Word Power Made Easy by Norman Lewis
4. Keep Talking by Friederike Klippel
5. More Grammar Games by Mario Rinvoluceri and Paul Davis

6. Essential English Grammar by Raymond Murphy
7. Spoken English-A Self Learning Guide to Conversation Practice by V Sasi Kumar

e-learning:

1. www.duolingo.com
2. www.bbc.co.uk
3. www.babbel.com
4. www.merriam-webster.com
5. www.ello.org
6. www.lang-8.com
7. youtube.com
8. Hello English(app)
9. mooc.org
10. <https://onlinecourses.nptel.ac.in>

DISTRIBUTION OF QUESTIONS/MARKS FOR SEMESTER MID/END EXAMINATION

Module	Unit Name	No. of Periods	NUMBER OF QUESTIONS TO BE CONSIDERED										UNIT WISE WEIGHTAGE	(MS+EE) WEIGHT AGE
			R		U		A		MARKS WEIGHTAGE					
			MID	END	MID	END	MID	END	MS-I	MS-II	MS-III	END EXAM		
PART-A	Speaking	10	3	1	2	1	2	1	36	-	-	17	53	74
	Listening	6	2	1	1	0	1	0	19	-	-	02	21	
PART-B	Vocabulary	6	2	1	1	0	1	0	-	19	-	02	26	74
	Grammar	12	3	1	2	1	2	1	-	36	-	17	48	
PART-C	Reading	6	3	1	0	0	1	0	-	-	16	2	18	72
	Writing	20	2	0	3	1	2	1	-	-	39	15	54	
TOTAL		60	15	05	9	3	9	3	55	55	55	55	220	220
											110			

LEGEND	R: Remembering
	U: Understanding
	A: Applying

Semester End Examination Marks Distribution

	Short answer	Essay	Marks
Part A	10	0	20
Part B			
Group 1	0	2/3	10
Group 2	0	2/3	10
Part C			
Group 1	0	2/3	20
Group 2	0	2/3	20
Total	10	8/12	80

Mid Sem Examination Marks Distribution

	Short answer	Essay	Marks
Part A	5	0	10
Part B	0	2/3	10
Part C	0	2/3	20
Total	5	4/6	40

Mid Sem Examination marks distribution

	Short answer	Essay	Marks
Part A	5	0	10
Part B	0	2/3	10
Part C	0	2/3	20
Total	5	4/6	40

State Board of Technical Education, Telangana State
Model Paper- 18EC201F (Advanced English)
Mid Sem-I

Time : 1 ½ Hours

Total Marks : 40

PART – A

5 X 2 = 10

Instructions:

- i) *Answer all the following questions:*
- ii) *Each question carries two marks.*

1. Write two sentences, one with 'must' and another with 'have to', to express obligations.
2. Fill the blanks with suitable prepositions.
 - a) He came home _____ a car.
 - b) Kiran mixed coffee _____ a spoon.
3. How do you invite your neighbor to attend a seminar on global warming?
4. Fix an appointment with the dentist at 5.30 p.m.
5. Fill the blanks with the suitable prepositions given below:

Among, between, by, with, from, at, for

- a) She distributed sweets _____ her two brothers.
- b) Mohan died _____ cancer.

PART- B

2 X 5 = 10

Instructions:

- i. *Answer any two questions.*
- ii. *Each question carries five marks.*

6. Write a dialogue between you and the reception about the cancellation of an appointment you have with the doctor.
7. Give directions to your friend to reach to the park from your house.
8. Write a paragraph describing your polytechnic using at least five prepositions.

PART- C

2 X 10 = 20

Instructions:

- i. *Answer any two questions.*
- ii. *Each question carries ten marks.*

9. Fill the blanks with the suitable prepositions.

- a) He looked ____ me.
- b) Listen ____ my instructions carefully.
- c) Geetha suffered _____ fever.
- d) Bhagya threw a stone _____ the well.
- e) Prathap kept a ladder _____ the wall.
- f) We played cricket _____ five hours.
- g) My books were stolen _____ Kiran.
- h) We will go to library _____ 15th of this month.
- i) Shailaja has been reading a novel _____ 10.00 a.m.
- j) We bought this television _____ 2014.

10. Give instructions on how to send an e-mail to your friend.

11. a). Fix an appointment with your M.L.A. next Sunday at 4.00 p.m. to discuss the problems in your village.
- b). Cancel the same appointment as you are going to leave for Adilabad on some urgent personal work.

State Board of Technical Education, Telangana State
Model Paper- 18EC201F (Advanced English)
Mid Sem-II

Time : 1 ½ Hours

Total Marks : 40

PART – A

5 X 2 = 10

Instructions:

- i) *Answer all the following questions:*
- ii) *Each question carries two marks.*

1. Write one word substitutes for the following expressions.
 - a) A place where books are available to be borrowed and for reference.
 - b) That which cannot be heard.
2. Write the synonyms of the following words:
 - a. Rich
 - b. Happy
3. Change the following into indirect speech.
 - a. Vinod said, "I have gone to Bhadrachalam yesterday."
 - b. Gopal said to Mamatha, "I will play cricket tomorrow."
4. Change the following onto direct speech.
 - a. David said to Madhavi, "Give me your calculator now."
 - b. Jayanth said to Fathima, "Where are you going?"
5. Correct the words given in italics in the following sentences.
 - a. Lalitha *go* to Nanded tomorrow.
 - b. Adarsh sat *besides* Vikas.

PART-B

2 X 5 =10 marks

Instructions:

1. *Answer any two questions.*
2. *Each question carries 5 marks.*

6. How should a new word be learnt?
7. Correct the following sentences.
 - a. It is very hot to go outside.
 - b. Shiva works hardly.
 - c. She is more cleverer than Bhaskar.
 - d. Vidya is senior than Indira.
 - e. Praveen is angry on his sister.
8. Change the following into indirect speech.

- a. She said to him, “When will you go to temple?”
- b. Radhika said to her brother, “Will you pay the examination fee tomorrow?”
- c. Vasu said, “ I do not eat non-vegetarian food.”
- d. Rafi said to Mathews, “Show me your record.”
- e. Pramod said to Sandhya, “ My brother will bring fruits tomorrow from Karimnagar.”

PART-C

2 X 10 =20 marks

Instructions:

1. Answer any two questions.

2. Each question carries ten marks.

9. Mention any five ways of learning a new word.
10. Change the following dialogue into a paragraph.

Ajay: Hai Sudha! How are you?

Sudha: I am fine. How are you?

Ajay: I am fine too. Where are you going now?

Sudha: I am going to market.

Ajay: What do you want to buy there?

Sudha: I want to buy fruits and vegetables.

Ajay: Do you know the mobile number of Suresh?

Sudha: No. I don't have his mobile number. Why do you need his number?

Ajay: I want to invite him for my sister's birthday.

11. Correct the following sentences.

- a. Every student has to bring their textbook tomorrow.
- b. She is having a house.
- c. We are living in this house for the last ten years.
- d. This machine works perfectly.
- e. He is the taller student in my class.
- f. Music classes begin from 27th July.
- g. She is weak and she can run fast.
- h. The door was painted by a small brush.
- i. Where your brother is studying?
- j. He awaited for the bus here yesterday.

State Board of Technical Education, Telangana State
C18-Semester End Examination (SEE)
Model Paper- 18Common201F (Advanced English)

Time: 3 Hours

Total Marks: 80

PART – A

Instructions:

10 X 2 = 20

- i. Answer all the following questions.*
 - ii. Each question carries two marks.*
1. Fill the blanks with the suitable expressions of obligation:
 - a) We _____ wear helmet while riding a two wheeler.
 - b) A student _____ be in time to college.
 2. Fill the blanks with suitable prepositions:
 - a) He went to polytechnic _____ a bicycle.
 - b) They have been waiting _____ a bus since 8.00 a.m.
 3. Write the antonyms of the following words:
 - a) Legal
 - b) Honest
 4. Change the following sentences into direct speech:
 - a. He said that he had a beautiful house.
 - b. The visitors thanked the guide.
 5. What do you write about the following ones in your resume?
 - a. Your skills
 - b. Your work experience
 6. What do you write about the following ones in your resume?
 - a. Your interests and activities
 - b. Your educational qualifications
 7. Read the following paragraph and answer the questions given in questions no. 7 and 8.

Subhas Chandra Bose was born in a Bengali Kayasth family on January 23, 1897 in Cuttack (Odiya Baazar), Orissa, to Janakinath Bose, and Prabhavati Devi. He was the ninth child of 14. He studied in an Anglo school at Cuttack (now known as Stewart School) until standard 6. He then shifted to Ravenshaw Collegiate School of Cuttack. From there he went to the prestigious Presidency College where he studied briefly. His nationalistic temperament came to light when he was expelled for assaulting Professor Oaten for his anti-India comments.

His high score in the Civil Service examinations meant an almost automatic appointment. He then took his first conscious step as a revolutionary and resigned the appointment on the premise that the best way to end a government is to withdraw from it. At the time, Indian nationalists were shocked and outraged because of the Amritsar massacre and the repressive Rowlatt legislation of 1919. Returning to India, Bose wrote for the newspaper Swaraj and took charge of publicity for the Bengal Provincial Congress Committee. His mentor was Chittaranjan Das, spokesman for aggressive nationalism in Bengal. Bose worked for Das when the latter was elected mayor of Calcutta in 1924. In a roundup of nationalists in 1925, Bose was arrested and sent to prison in Mandalay, where he contracted tuberculosis.

Answer the following questions.

- a. Where was Subhas Chandra Bose born?
 - b. Who were his parents?
8. Answer the following questions
- a. Why was Bose expelled from Presidency College?
 - b. Why was he sent to Mandalay?
9. Read the following paragraph and answer the questions given in questions no. 9 and 10.

Dr. Rajendra Prasad, son of Mahadev Sahai, was born in Zeradei village, in the Siwan district of Bihar, on 3 December 1884. He was the youngest in a large family, & was close to his mother and eldest brother. He was known as “Rajen” to his family and friends. His father, Mahadev Sahay, was a scholar of both the Persian and Sanskrit languages, while his mother, Kamleshwari Devi, was a religious woman. Zeradei’s population was diverse, with both Muslims and Hindus living in relative harmony.

When Rajendra Prasad was five years old, his parents put him under a Mawlawi, an accomplished Muslim scholar, to learn the Persian language, followed by Hindi and arithmetic. After the completion of traditional elementary education, Rajendra Prasad was sent to the Chhapra District School. At the age of 12, Rajendra Prasad was married to Rajavanshi Devi. He, along with his elder brother Mahendra Prasad, then went on to study at T.K. Ghosh's Academy in Patna.

Since childhood, Rajendra Prasad was a brilliant student. He placed first in the entrance examination to the University of Calcutta and was awarded Rs.30 per month as a scholarship. In 1902, Rajendra Prasad joined the Presidency College. He was initially a student of science and his teachers included Jagadish Chandra Bose and Prafulla Chandra Roy. Later he decided to focus on the arts. Prasad lived with his brother in the Eden Hindu Hostel

Answer the following questions:

- a. Where was Rajendra Prasad born?
 - b. What was he known as?
10. Answer the following questions.
- a. Where did he learn the Persian language?
 - b. Where was he awarded Rs. 30 per month as a scholarship?

PART- B

4 X 5 = 20

Group 1

2 X 5 = 10

Instructions: 1. Answer any two of the following questions.

2. Each question carries five marks.

11. Write instructions on how to prepare tea.
12. Write a cover letter to the Managing Director, Vijaya Cement Works, Godavarikhani as you wish to apply for the post of Assistant Executive Engineer.
13. Correct the following sentences.
 - a. They congratulated Aravind for his success.

- b. Though Anand is poor, but he is honest.
- c. I wish I have a laptop.
- d. Nafeesa and me are playing shuttle badminton.
- e. Hari is having a car.

Group 2

2 X 5 = 10

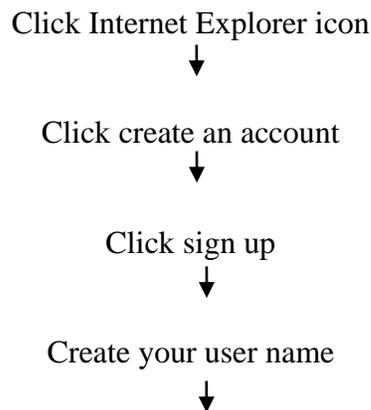
Instructions: 1. Answer any two of the following questions.
 2. Each question carries five marks.

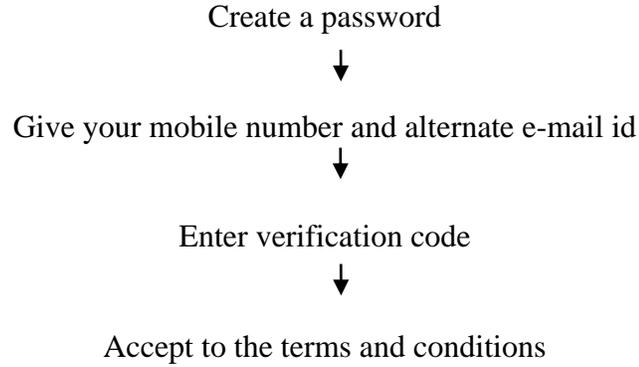
- 14. Write a report on the industry you have visited last week.
- 15. Observe the following table and write a paragraph analyzing the information given in it.

Table showing the number of students admitted in different courses in Private Engineering colleges in the past four years.

Year	ECE	EEE	Mechanical	Civil	CSE
2017	54065	36255	21600	34000	13436
2016	49008	36255	20900	29000	22687
2015	45032	36255	20600	14500	32008
2014	38060	36254	20300	14500	38065

- 16. Observe the following flow chart and write a paragraph describing the steps involved in creating an e-mail.





PART-C

4 X 10 = 40

Group 1

2 X 10 = 20

Instructions: 1. Answer any two of the following questions.

2. Each question carries ten marks.

17. Write a resume to apply for the post of AEE in the Department of Tribal Welfare, Government of Telangana.
18. Write instructions for the following:
- a. Opening an account in a bank.
 - b. Taking a bus pass for six months
19. Correct the following sentences.
- a. One of my friend met me yesterday.
 - b. Anitha is going to park everyday at 6.00 p.m.
 - c. Myself went to Hyderabad last month.
 - d. If you read well, you get the first rank.
 - e. There was many students in the hall.
 - f. Prasad wants to quickly write the examination.
 - g. We ran fastly to catch the bus.
 - h. Pallavi prefers milk than coffee.
 - i. When did Kamala went to Hyderabad?
 - j. Harika returned back my book.

Group 2

2 X 10 = 20

Instructions: 1. Answer any two of the following questions.

2. Each question carries ten marks.

20. Write a report to your Principal on the industrial visit by you to BHEL, Patancheruvu, Hyderabad.

21. Read the following paragraph and make notes:

In 1920, the Congress meeting was held at Nagpur under the leadership of Gandhiji. It was attended by 15000 delegates and the Congress Constitution was amended and resolutions were taken to fight Swaraj by nonviolent methods and undo the injustice done to Punjab and Turkey.

This movement was called Non-Cooperation Movement. Renunciation of honorary titles like 'Sir' given by British, boycott of legislatures, schools and colleges, courts, tendering resignation to government jobs nonpayment of taxes to government were the important programmes of this movement. Gandhi returned his Kaiser-i-Hind title in August, 1920. There were strikes, hartals and burning of foreign goods all over the country. Many Indian were killed in firings and many other were jailed.

In Kerala, a rebellion broke out by Moplah peasants and it was suppressed brutally. Though Gandhiji warned the people many times not to resort to violent methods, on 5th February, 1922 in Chauri-Chaura in Uttar Pradesh people resorted to violence. When policemen opened fire on peaceful demonstrations, the angry people set ablaze the police station and 22 policemen were killed. Gandhiji stopped the movement because it lost its nonviolent nature. On 10th March, 1922 Gandhiji was arrested for six years.

22. Read the following passage and answer the questions that follow:

Subhas Chandra Bose was born in a Bengali Kayasth family on January 23, 1897 in Cuttack (Odiya Bazaar), Orissa, to Janakinath Bose, and Prabhavati Devi. He was the ninth child of 14. He studied in an Anglo school at Cuttack (now known as Stewart School) until standard 6. He then shifted to Ravenshaw Collegiate School of Cuttack. From there he went to the prestigious Presidency College where he studied briefly. His nationalistic temperament came to light when he was expelled for assaulting Professor Oaten for his anti-India comments.

His high score in the Civil Service examinations meant an almost automatic appointment. He then took his first conscious step as a revolutionary and resigned the appointment on

the premise that the best way to end a government is to withdraw from it. At the time, Indian nationalists were shocked and outraged because of the Amritsar massacre and the repressive Rowlatt legislation of 1919. Returning to India, Bose wrote for the newspaper Swaraj and took charge of publicity for the Bengal Provincial Congress Committee. His mentor was Chittaranjan Das, spokesman for aggressive nationalism in Bengal. Bose worked for Das when the latter was elected mayor of Calcutta in 1924. In a roundup of nationalists in 1925, Bose was arrested and sent to prison in Mandalay, where he contracted tuberculosis.

Questions:

- i. When and where was Subhas Chandra Bose?
- ii. Who was his mentor?
- iii. How did Subhas Chandra Bose participate in National Movement after coming back to India?
- iv. Why didn't he join civil Services?

What is the synonym of 'aggressive'?

Department of Technical education
State Board of Technical education & Training (TS)

Course Title:	Process Control and Yarn Technology	Course Code	18GT-202C
Semester	II	Course Group	Core
Teaching Scheme in Hrs. (L: T:P)	2.4:1.6:0	Credits	3
Methodology	Lecture + Assignments	Total Contact periods:	60Pds
CIE	60 Marks	SEE	40 Marks

Distribution of marks

Module	Unit No.	No. of Periods	Number of Questions to Be Considered										Unit Wise Weightage	(MS+EE) Weightage
			R		U		A		Marks Weightage					
			MID	END	MID	END	MID	END	MS I	MS II	MS III	End Exam		
PART-A	I	10	3	01	02	-	01	01	26	-	-	12	38	74
	II	10	2	01	01	01	02	-	29	-	-	07	36	
PART-B	III	10	3	01	01	-	02	01	-	31	-	12	43	74
	IV	10	2	01	02	01	01	-	-	24	-	07	31	
PART-C	V	10	3	-	02	01	02	-	-	-	36	05	41	72
	VI	10	2	01	01	-	01	01			19	12	31	
TOTAL									55	55	55	55	220	220
											110			

LEGEND	R: Remembering
	U: Understanding
	A: Application

Prerequisite

Knowledge of Natural and Man - made fibres

Course Outcome	
C01	Explain the factors influencing Yarn Realization and the reasons and Control measures for Invisible Loss.
C02	Summarize the activities related to control of blow room waste and card waste.
C03	Perceive the quality related Concepts as stated in ISO and TQM.
C04	Determine yarn count by different systems and the identification of yarn and fabric defects.
C05	Distinguish the different types of yarns and texturizing process.
C06	Distinguish the different problem-solving techniques.

Course Content

- 1. Unit 1: Yarn Realization and Control of Invisible Loss: (Duration :10 periods)** Definition of yarn realization – Method of Yarn realization calculation - Effect of fibre parameters on yarn realization - Records for estimating yarn realization and waste. Control of Invisible loss (Reasons for invisible loss - Control measures for invisible loss) Control of hard waste in spinning mill (factors influencing the incidence of hard waste – control of hard waste in ring frame -quality parameters of ring cop to be checked – causes for the incidence of high hard waste in ring frames - Measures to reduce hard waste) - Control of hard waste in cone winding.
- 2. Unit 2 : Control of Blow Room Waste and Card Waste –(Duration :10 periods)** - Definition and Formula - Degree of cleaning & Cleaning efficiency – Cleanability of fibres - Parameters to be considered in blow room process for degree of cleaning - The fibre characteristics influencing

- cleanability - Determination of the cleanability - Influence of various parameters on blow room waste . Card Waste: Licker in waste optimization – Primary functions of licker in region of a card – Factors influencing the licker in waste – Reasons for comber waste variations – Procedure for control of comber waste – Factors influencing combing efficiency – Effects of contamination.
3. **Unit3 ISO 9000 and TQM (Duration :10 periods):** Concept of quality – Principles of quality circle – Advantages of quality control – Definition, Benefits and requirements of quality systems. Definition and principles of quality assurance – Elements of quality system. Definition of TQM – Principles or elements of TQM – Characteristics of TQM – Step by step approach to TQM. Benefits of ISO certification – Uses and drawbacks of ISO 9000 – Importance of cost of quality – ASQC Quality cost committee – break down of costs.
 4. **Unit 4 Yarn Count and Inspection (Duration :10 periods):** Yarn count - systems of yarn numbering- 1 indirect system- merits- demerits- Direct system- merits- demerits- universal system- units of length and weights in counting systems- Definition of count in different systems- 1 cotton - English- 2 French count- 3 Metric count- 4 Tex-5 Denier- conversion of count from one system to another. Define the term 1 Slub – Causes for slub – 2 causes of slubby weft – 3 coloured flecks – identification – causes – 4 Knots – identification – causes – 5 broken filament – cause.4-point system – 10-point system- Graniteville 78 System.
 5. **Unit 5 Yarn Classification and Texturizing (Duration :10 periods):** spun yarn - filament yarn- Differences between spun and filament yarn- yarn classification- yarn classified by ply- single-plied- cord , cable or hawser- yarn classification by twist direction- S twist - Z twist- yarn classification based on amount of twist- Zero twist- very low twist-medium twist- high or hard twist- crepe twist- Novelty yarns- Loop yarns- Loop, curl, boucle, bouclette and gimp yarns- Nub yarns- nub, knop, knot, spot, nep- Slub yarns- Flake, flock and seed yarns- Wrapped yarns- Spiral, corkscrew, covered and wrapped yarns- Metallic yarns- Chenille Yarns-fibre stretch- yarn stretch- Fabric stretch- finishing stretch- use of stretch fabrics . Texturizing: Definition of textured yarns- texturizing process- False twist methods- draw texturizing- knife edge method- stuffer box method- fluid texturizing - gear crimping- -properties of different textured yarns- uses- advantages- bicomponent yarns-biconstituent yarns.
 6. **Unit 6 Problem Solving Technique (Duration :10 periods): Flow diagram-** Definition - types - high level flow diagram- matrix flow diagram- detailed flow diagram- symbols used - reasons for making detailed flow diagram- when to draw flow diagram- - **Data collection-** introduction- purpose- types of data- measurement data- attribute data- check sheet- -types- process control information checks- decorative item checks- product quality assurance checks- defective items

checks- defective location checks- defective cause checks- process variation distribution checks- interpretation of collected data- errors in interpretation - collection of data-- benefits of data collection- **Graphs** two main groups- commonly used graphs- line graph- bar chart - pie chart or circle graph- pictorial graph- special purpose graph- belt graph- radar graph- compound graph- benefits of graph. **Histogram**- Definition - construction - interpretation-precautions- shapes- Cliff like histogram- Double peaked- comb type- Isolated peak- Plateau type-uses of histogram.

Recommended Books

1. G Thilagavathi and T Karthik - Process Control and Yarn Quality in Spinning – Wood Head Publishing India Pvt Ltd New Delhi.
2. K Ganapathy, Prof. V. Narayana - Problem Solving Techniques - Quality Circle Forum of India Secunderabad
3. M Zakria Baig - Industrial Management and Entrepreneurship- - Radiant Publishing House- Hyderabad.
4. Pradip V Mehta and Satish K. Bhardwaj - Managing Quality in Apparel Industry- - New Age International (P) Limited- Hyderabad.
5. Textile Committee - Basics of Textiles and Visual Inspection System- - Ministry of Textiles- Govt of India.
6. Amitva Mitra - Fundamentals of Quality Control and improvement- -John Wiley and sons-USA

Specific Learning Outcomes

On completion of the course, the student should be able to

1. Yarn Realization and Control of Invisible Loss:

- 1.1 Define the term yarn realization.
- 1.2 State the formula for yarn realization.
- 1.3 Define the term process waste.
- 1.4 Define the term product waste.
- 1.5 List the usable waste of spinning mill.
- 1.6 List the non-usable waste of spinning mill.
- 1.7 State the formula given by SITRA for yarn realization.
- 1.8 Explain the effect of fibre parameters on yarn realization.
- 1.9 Explain the records to be maintained to account for yarn realization and waste.
- 1.10 State the term invisible loss or state what comes under invisible loss.

- 1.11 State the reasons for invisible loss.
- 1.12 Explain the control measures for invisible loss.
- 1.13 List the causative factors for hard waste
- 1.14 Explain the quality parameters to be checked in a ring cop.
- 1.15 State the reasons for high hard waste in ring frames.
- 1.16 State the measures to reduce Hard waste.
- 1.17 Explain the various measures required to reduce hard waste in Winding department.

2. Control of Blow room waste and Card Waste:

- 2.1 Define degree of cleaning, cleaning efficiency and Cleanability of fibres.
- 2.2 Mention the parameters to be considered in blow room process for degree of cleaning.
- 2.3 Explain the four fibre characteristics that influence the cleanability of fibres – fibre length, micronaire , and strength and fibre maturity .
- 2.4 Explain the process for determining the cleanability.
- 2.5 Explain the Influence of the following parameters on blow room waste – Speeds and settings, Air currents , Position of machines in blow room,
- 2.6 Explain Licker in waste optimization.
- 2.7 List the functions of the licker-in region of a card.
- 2.8 Explain factors influencing liquor in waste - Mote knife selection - Waste plate setting, Feed plate to licker-in setting and Under-casing waste.
- 2.9 State the reasons for comber waste variations.
- 2.10 Explain the procedure for control of comber waste
- 2.11 Explain the factors influencing combing efficiency –(a) Fibre length distribution in staple diagram (b) Amount of waste extracted(c) Comber lap preparation (d) Comber machine settings.
- 2.12 Explain the effects of contamination.

3. ISO 9000 and TQM:

- 3.1 State the concept of quality.
- 3.2 State the four basic principles of quality circle.
- 3.3 List the advantages of quality circle.
- 3.4 State the principles or elements of TQM.
- 3.5 Explain the characteristics of TQM.
- 3.6 Explain the step by step approach to TQM.
- 3.7 Explain the benefits and drawbacks of ISO 9000.
- 3.8 Define the term quality system.

- 3.9 Mention the benefits of quality system.
- 3.10 Define the term quality assurance and Mention the principles of quality assurance.
- 3.11 Explain the elements of quality systems.
- 3.12 Define the following terms – quality policy, quality management, quality control.
- 3.13 State the necessity to know the cost of quality.
- 3.14 Explain the categories of quality as given by ASQC quality cost committee.

4. Yarn Count and Inspection

- 4.1 Define yarn count.
- 4.2 State the systems of yarn numbering.
- 4.3 State the merits and demerits of direct system.
- 4.4 State the merits and demerits of universal system.
- 4.5 State the units of length and weights in counting systems.
- 4.6 Define count in different systems 1 cotton - English- 2 French count- 3 Metric count- 4 Tex-5 Denier.
- 4.7 solve numerical problems regarding conversion of count from one system to another.
- 4.8 Define the term Slub and state the Causes for slub.
- 4.9 State the causes for slubby weft .
- 4.10 State the identification feature, causes for coloured flecks.
- 4.11 State the identification mark and causes for Knots.
- 4.12 State the identification , causes for broken filament
- 4.13 Explain 4 point system.
- 4.14 Explain 10 point system.
- 4.15 Explain Graniteville 78 System.

5. Yarn Classification and Texturizing

- 5.1 Define spun yarn.
- 5.2 Define filament yarn.
- 5.3 Describe the differences between spun and filament yarn.
- 5.4 Explain the classification of yarn by ply.
- 5.5 Explain classification of yarns based on twist direction- S twist - Z twist.
- 5.6 Describe the classification of -yarn based on amount of twist- Zero.
- 5.7 Explain the types of Novelty yarns.
- 5.8 Describe Metallic yarns.
- 5.9 Define Chenille Yarns.
- 5.10 Define fibre stretch.

- 5.11 Define yarn stretch.
- 5.12 Define Fabric stretch.
- 5.13 Define finishing stretch
- 5.14 List the use of stretch fabrics.
- 5.15 Define textured yarns.
- 5.16 Explain texturizing process.
- 5.17 Explain False twist method.
- 5.18 Explain draw texturizing
- 5.19 Describe knife edge method.
- 5.20 Describe the stuffer box method.
- 5.21 Describe gear crimping.
- 5.22 State the properties of different textured yarns.
- 5.23 State the uses/ advantages of textured yarns

6. Problem Solving Technique

- 6.1 Define and Explain different types of flow diagram (high level flow diagram- matrix flow diagram- detailed flow diagram).
- 6.2 Explain the symbols used in flow diagram.
- 6.3 State reasons for making detailed flow diagram.
- 6.4 State the conditions in which flow diagrams are used.
- 6.5 State the purpose of data collection.
- 6.6 List types of data.
- 6.7 List and explain check sheets.
- 6.8 List the benefits of data collection.
- 6.9 Define Graph.
- 6.10 State the purpose of graph.
- 6.11 List and explain different types of graphs
- 6.12 Explain the procedure to construct histogram.
- 6.13 List and explain the types of histograms.
- 6.14 List the uses of histogram.

1. Visit library to refer journals, magazines.
2. Visit nearby spinning mill.
3. Group Discussion
4. Seminar
5. Surprise test

List of E Learning Sites

1. <https://nptel.ac.in/courses/116102024/>
2. <https://nptel.ac.in/courses/116102034/15>
3. <https://nptel.ac.in/courses/112107142/14>
4. <https://nptel.ac.in/courses/116102038/42>

CO PO Mapping matrix

Course Outcome	CL	Linked PO	Teaching Hours
Explain the factors influencing Yarn Realization and the reasons and Control measures for Invisible Loss	R/U/A	1, 2,	10
Summarize the activities related to control of blow room waste and card waste	R/U/A	1,2,	10
Perceive the quality related Concepts as stated in ISO and TQM.	R/U/A	1,2,	10
Determine yarn count by different systems and the identification of yarn and fabric defects.	R/U/A	2,10	10
Distinguish the different types of yarns and texturizing process.	R/U/A	1,2,10	10
Distinguish the different problem-solving techniques.	R/U/A	1,2, 4, 10	10
			60

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	MAPPED PO'S
CO1	2	3									1,2,
CO2	2	3									1,2
CO3	2	3									1,2,
CO4	2	3									1,2,
CO5	2	3									1,2,,10
CO6	2	3									1,2,,4,,10

Internal evaluation

Test	Units	Marks	Pattern
Mid Sem 1	1 and 2	20	Part A 5 Short answer questions Part B 2 Essay questions out of 3 Questions Part C 2 Essay questions out of 3 Questions
Mid Sem 2	3 and 4	20	Part A 5 Short answer questions Part B 2 Essay questions out of 3 Questions Part C 2 Essay questions out of 3 Questions
Slip Test 1	1 and 2	5	2 Essay Questions out of 3 Questions
Slip Test 2	3 and 4	5	2 Essay Questions out of 3 Questions
Assignment	1	5	Different group assignments of Higher order Questions that develop problem solving skills and critical thinking should be given
Seminars	1	5	
	Total	60	

Model Semester End Examination Pattern
(Duration 3 periods. 80 Marks)

	Number of Questions	Type	Marks/question	Marks	Total 80
Part A	10/10	Short answer	2	20	20
Part B	2/3	Essay	5	10	20
Group - 1 Group - 2	2/3			10	
Part C	2/3	Essay	10	20	40
Group - 1	2/3			20	
Group - 2					

Mid Sem Examination marks distribution

	Short answer	Essay	Marks
Part A	5	0	10
Part B	0	2/3	10
Part C	0	2/3	20
Total	5	4/6	40

Mid Semester Internal Evaluation-I

Model Paper

Code & Name of the Subject :18GT-202C

Process Control and Yarn Technology

Duration: 90 Minutes

Max Marks :40

Part-A

Answers all questions, each question carry 2 marks

5*2=10

1. State the term process waste.
2. State the term yarn realization.
3. Define the term product waste.
- 4.State the term degree of cleaning.
5. State the term micronaire.

Part-B

Answer any two questions, each question carry 5 marks

2*5=10

5. State the reasons for invisible loss.
6. State the measures to reduce Hard waste.
7. State the reasons for comber waste variations.

Part-C

Answer any two questions, each question carry 10 marks

2*10=20

9. What are the records to be maintained to account for yarn realization and waste.
10. What is the process to be adopted for determining the cleanability?
11. Suggest the procedure for control of comber waste

MODEL QUESTION PAPER

Mid Semester Internal Evaluation-II

Model Paper

Code & Name of the Subject: 18GT202C

Process Control and Yarn Technology

Duration: 90 Minutes

Max Marks: 40

Part-A

Answer all questions, each question carry 2 marks

5*2=10

1. State the concept of quality.
2. List the advantages of quality circle.
3. Define the term quality system.
4. Define yarn count.
5. State the merits of direct system.

Part-B

Answer any two questions, each question carry 5 marks

2*5=10

6. State the four basic principles of quality circle.
7. State the identification feature, causes for coloured flecks.
8. State the causes for slubby weft .

Part-C

Answer any two questions, each question carry 10 marks

2*10=20

9. Explain the elements of quality systems.
10. Explain the characteristics of TQM.
11. Explain 10 point system

MODEL QUESTION PAPER

Semester End Examination Model Question Paper

Model Paper

Code & Name of the Subject: 18GT202C

Process Control and Yarn Technology

Duration: 180 Minutes

Max Marks: 80

Part-A

Answer **all** questions, each question carry 2 marks

10*2=20 Marks

1. Define graph.
2. List two uses of histogram.
3. Define spun yarn.
4. Define filament yarn.
5. Define fibre stretch.
6. Define the term process waste.
7. Define the term micronaire.
8. State the concept of quality.
9. Define yarn count.
10. State the purpose of graph.

Part-B

GROUP-1

Answer any **Four** questions, each question carry 5 marks

4*5=20 Marks

11. State the purpose of data collection.
12. Describe gear crimping.
13. Explain the classification of yarn by ply.

GROUP-2

14. State the reasons for invisible loss.
15. State the causes for slubby weft.
16. Describe Metallic yarns.

Part-C

Answer any **Four** questions, each question carry 10 marks

4*10=40 Marks

GROUP-1

17. Explain the procedure to construct histogram.
18. Describe knife edge method.
19. Explain texturizing process.

GROUP-2

20. What are the records to be maintained to account for yarn realization and waste.
21. Explain the elements of quality systems
22. Explain the symbols used in flow diagram.

Department of Technical education
State Board of Technical education & Training (TS)

18GT-203C—Fabric Formation Technology

Course Title :	Fabric Formation Technology	Course Code	18GT-203C
Semester	II	Course Group	Core
Teaching Scheme in Hrs(L:T:P)	2.4:1.6:0	Credits	3
Methodology	Lecture + Assignments	Total Contact periods:	60Pds
CIE	60 Marks	SEE	40 Marks

DISTRIBUTION OF QUESTIONS/MARKS FOR SEMESTER MID/END EXAMINATION

Module	Unit No.	No. of Periods	Number Of Questions To Be Considered										Unit Wise Weightage	(MS+EE) Weightage
			R		U		A		Marks Weightage					
			MID	END	MID	END	MID	END	MS I	MS II	MS III	End Exam		
PART-A	I	10	04	01	-	-	02	01	28	-	-	12	40	74
	II	10	01	01	03	01	01	-	27	-	-	07	34	
PART-B	III	10	01	01	02	-	01	01	-	22		12	34	74
	IV	10	04	01	01	01	02	-	-	33		07	40	
PART-C	V	10	02	01	01	-	01	01	-	-	19	12	31	72
	VI	10	03	-	02	01	02	-	-	-	36	05	41	
TOTAL		60	15	05	09	03	09	03	55	55	55	55	220	220
											110			

LEGEND	R: Remembering
	U: Understanding
	A: Application

Prerequisites

Knowledge of natural and man-made fibres.

Course Outcome	
C01	Explain the preparation of yarn for weaving and describe the different types of looms.
C02	Explain the various ways of woven design presentation.
C03	Explain the fabric formation fibre mat, yarn and thread.
C04	Explain braiding lace and net methods of making fabric.
C05	Explain basic weaves construction, structure properties, examples and selvedge types.
C06	Explain complex weaves and fabric defects.

Course Content

- Unit 1 Preparation of Yarn for Weaving and Types of Looms: Duration 10 periods**
Preparation of yarn for weaving- Parts and Functions of loom- Definition of weaving
Weaving process - shuttle loom- Shuttle less looms- projectile- rapier, jet weaving -
multiphase weaving.
- Unit2 Woven Design Presentation: Duration : 10 Periods**
Two kinds of interlacing – Practical methods of weave presentation(linear and canvas) –
Weave repeat – Basic elements of Woven Design(Design , draft or drawing plan, peg or
lifting plan) Types of draft plan (straight, pointed, skip and sateen, broken , divided,
grouped, curved and combination) - relationship between design, draft and lifting plan –
Denting Plan .
- Unit 3 Fabrics made with Fibre Mats, Yarns and thread: Duration: 10 periods:** Uses of Malivlies – process of making fabric with fibre mats . Definition of tufting – method of manufacture. Fabrics made with yarns and thread: (Mali Fabric Forming Techniques) – Malimo technique- Malipol Technique – Maliwatt Technique. Schusspol.(manufacture – characteristics- uses)

4. **Unit 4 Braiding or Plaiting, Lace and Net:** **Duration: 10 Periods:**
 Definition of braiding – Types of braids – uses – process. Lace – Definition – classification of lace based on use – list of methods used for lace making - handmade bobbin lace – Binche lace, Chantilly lace, cluny lace, maltese lace, torchon , duchesse lace, mechlin lace. Machine made lace (Leavers lace- Nottingham lace – Bobbin lace – Schiffli lace) types of lace based on use (All over lace, Flouncing, Galloon, Insertion, Beading, Edging, Medallion). Needle point lace .Parts of lace construction. Net – definition – Uses – Care precautions.
5. **UNIT 5 - Basic Weaves** **Duration: 10 Periods**
 Plain weave and its variations - Rib - Basket weave- examples- Twill weave- uneven-warp face twill- weft faced twills- even twills-broken or irregular twills- twill direction-angle of twill- Satin weave- sateen weave - Structure-appearance-properties-typical fabrics. Selvedges-Plain Selvedges-Tape selvedges-Split selvedges-Fused selvedges-Leno selvedges-Tucked selvedges-Balanced construction- Comparison of plain vs. twill vs. satin.
6. **Unit6 Complex Weaves and Fabric Defects:** – **Duration 10 Periods**
 Double cloth weave. - Dobby weave- Jacquard - Leno weave-Surface figure weaves-Swivel- Clip spot- Lappet – Examples for weaves – Uses .Fabric Defects Causes and identification feature – Missing end – Float – Weft crack – Weft Bar - Lashing in – Smash. – gout – reed marks - broken ends woven -in – bunch - double ends.-

Recommended Books

1. Marjory L Joseph – Introductory Textile Science – Holt, Rinehart and Winston- New York.
2. David M Potter, Bernard P Corbman – Textiles Fiber to Fabric- McGraw Hill – New York.
- 3.

Specific Learning Outcomes

On completion of the course, the student shall be able to:

1. Preparation of Yarn for Weaving and Types of Looms:

- 1.1 State the preparation of yarn for weaving.
- 1.2 List the parts of a loom and explain the functions of each part.
- 1.3 Explain the weaving process.
- 1.4 Describe projectile loom.
- 1.5 Describe the features and functions of rapier loom.

- 1.6 Describe the salient features of Air jet loom.
- 1.7 Describe water jet loom.
- 1.8 Describe the salient features of multiphase weaving

2. Woven Design Presentation

- 2.1 State the two kinds of interlacing.
- 2.2 Explain the Practical methods of weave presentation (linear and canvas).
- 2.3 State the term Weave repeat.
- 2.4 Explain the Basic elements of Woven Design (Design, draft or drawing plan, peg or lifting plan).
- 2.5 State the importance of design, draft and peg plan.
- 2.6 Explain the Types of draft plan (straight, pointed, skip and sateen, broken, divided, grouped, curved and combination).
- 2.7 State the difference between different draft plans.
- 2.8 Explain the relationship between design, draft and lifting plan.
- 2.9 Explain Denting Plan.
- 2.10 State the conditions under which each draft plan is used.

3. Fabrics made with Fibre Mats , Yarns and thread

- 3.1 List the uses of malvivlies.
- 3.2 State the process of making malvivlies fabric.
- 3.3 Define the term Tufting.
- 3.4 Explain the manufacture of fabric by tufting method.
- 3.5 Describe Malimo technique.
- 3.6 Describe Malipol Technique .
- 3.7 Describe Maliwatt Technique .
- 3.8 Describe Schusspol technique .
- 3.9 State the characteristics and uses of fabrics made with Mali Fabric forming techniques

4. Braiding or Plaiting, Lace and Net

- 4.1 Define braiding.
- 4.2 State the Types of braids.
- 4.3 List the uses of braids.
- 4.4 State the process of making braid.
- 4.5 Define the term Lace.
- 4.6 Describe the classification of lace based on use.
- 4.7 List the methods used for lace making.
- 4.8 Describe handmade lace varieties
- 4.9 Explain Machine made lace (Leavers lace- Nottingham lace – Bobbin lace – Schiffli lace).
- 4.10 types of lace based on use (All over lace, Flouncing, Galloon, Insertion, Beading, Edging, Medallion).
- 4.11 Explain the parts of lace construction.
- 4.12 Describe the various types of needle point lace.
- 4.13 Define the term Net.
- 4.14 State the uses of net. Uses.
- 4.15 State the Care precautions for net.

5. Basic Weaves

5.1 Explain the structure, appearance, properties, typical fabrics of different basic weaves- plain, basket, rib, twill, (variations of twill) satin.

5.2 Define and explain different types of selvages.

5.3 Define the term balanced construction.

5.4 Compare plain vs. twill vs. satin.

6. Complex Weaves and Fabric Defects

6.1 Describe Dobby weave.

6.2 Describe Jacquard weave and design.

6.3 Describe Leno weaves

6.4 Describe the Surface figure weaves- 1 Swivel- 2 lappet 3 spot.

6.5 Describe double weaves.

6.6 Give examples for above weaves.

6.7 State the Uses for above woven fabrics.

6.8 Describe the following Fabric Defects - Causes and identification feature – 1 Missing end – 2 Float – 3 Weft crack – 4 Weft Bar - 5 Lashing in – 6 Smash 7 broken ends woven in bunch 8 gout

Suggested Student Activities

1. Visit nearby weaving unit or weavers Service Centre.
2. Visit library to refer journals.
3. Quiz
4. Group discussion.
5. Surprise test
6. Seminars

List of E Learning Sites

1. <https://nptel.ac.in/courses/116102017/>
2. <https://nptel.ac.in/courses/116102005/3>
3. <https://nptel.ac.in/syllabus/116102005/>

CO – PO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	MAPPED PO'S
CO1	2	3						1			1,2,8,9,10
CO2	2	3						1			1,2,8,9,10
CO3	2	3						1			1,2,8,9,10
CO4	2	3						1			1,2,8,9,10
CO5	2	3						1			1,2, 8, 9, 10
CO6	2	3						1			1,2 8, 9,10

Internal evaluation

Test	Units	Marks	Pattern
Mid Sem 1	1 and 2	20	Part A 5 Short answer questions Part B 2 Essay questions out of 3 Questions Part C 2 Essay questions out of 3 Questions
Mid Sem 2	3 and 4	20	Part A 5 Short answer questions Part B 2 Essay questions out of 3 Questions Part C 2 Essay questions out of 3 Questions
Slip Test 1	1 and 2	5	2 Essay Questions out of 3 Questions
Slip Test 2	3 and 4	5	2 Essay Questions out of 3 Questions
Assignment	1	5	Different group assignments of Higher order Questions that develop problem solving skills and critical thinking should be given
Seminars	1	5	
	Total	60	

Model Semester End Examination Pattern
(Duration 3 periods. 80 Marks)

	Number of Questions	Type	Marks/question	Marks	Total 80
Part A	10/10	Short answer	2	20	20
Part B	2/3	Essay	5	10	20
Group - 1	2/3			10	
Group - 2					
Part C	2/3	Essay	10	20	40
Group - 1	2/3			20	
Group - 2					

Mid Sem Examination marks distribution

	Short answer	Essay	Marks
Part A	5	0	10
Part B	0	2/3	10
Part C	0	2/3	20
Total	5	4/6	40

Model Question Papers

STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TELANGANA

DIPLOMA IN GARMENT TECHNOLOGY.

SUB CODE: 18GT-203C

FABRIC FORMATION TECHNOLOGY

MID SEM -I EXAM MODEL PAPER

TIME: 90 MIN

TOTAL MARKS: 40

PART – A

Marks: 5 X 2= 10

Instructions: (1) Answer all questions
(2) Each question carries **two** marks.

1. Define the term heddles.
2. Define the term harness.
3. State the harnesses required for making plain and twill weave.
4. State the term selvedge.
5. List the two kinds of interlacing.

PART - B

Marks: 2 x 5 = 10

Instructions: (1) Answer any **two** questions.
(2) Each question carries **five** marks.

6. Explain the uses of malvivlies.
7. State the process of making malvivlies fabric.
8. Explain the manufacture of fabric by tufting

PART - C

Marks: 2 x 10= 20

Instructions: (1) Answer any **two** questions choosing at least one from each section.
(2) Each question carries **ten** marks.

9. What is the yarn preparation necessary before weaving?
10. Describe the shedding and battening operation.
11. What are the benefits of preparing design, draft and peg plan?

STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TELANGANA
DIPLOMA IN GARMENT TECHNOLOGY.

SUB CODE: 18GT-203 C

FABRIC FORMATION TECHNOLOGY

MID SEM -II EXAM MODEL PAPER

TIME: 90 MIN

TOTAL MARKS: 40

PART – A

Marks: 5 X 2= 10

Instructions: (1) Answer all questions

(2) Each question carries **two** marks

- 1 List the uses of malvivlies
- 2 Define machine lace.
- 3 Define lille lace.
- 4 Define maltese lace .
- 5 Define the term torchon lace.

PART - B

Marks: 2 x 5 = 10

Instructions: (1) Answer any **two** questions.

(2) Each question carries **five** marks

6 Describe the uses of malimo fabrics.

7 Describe the machine made bobbin lace.

8 Describe the care precautions for net fabric.

PART - C

Marks: 2 x 10= 20

Instructions: (1) Answer any **two** questions choosing at least one from each section.

(2) Each question carries **ten** marks.

9 Explain the malimo technique.

10 Describe the braiding process.

11 Describe the process of making needle point lace.

STATE BOARD OF TECHNICAL EDUCATION & TRAINING ,TELANGANA
DIPLOMA IN GARMENT TECHNOLOGY
SUB CODE: 18GT -203C
FABRIC FORMATION TECHNOLOGY
SEMESTER END EXAM MODEL PAPER

TIME: 3 HOURS

TOTAL MARKS: 80

PART – A

Marks: 10 X 2= 20

- Instructions:** (1) Answer all questions
(2) Each question carries **two** marks.

1. State the causes for Missing end.
2. State the causes for Float.
3. State the causes for Weft crack.
4. Give two examples for plain weave.
5. Give two examples for twill weave fabrics.
6. Define the term heddles.
7. Define the term weave repeat.
8. Define the term tufting.
9. Define the term braiding.
10. State two differences between plain and twill weave.

PART - B

Marks: 4 x 5 = 20

- Instructions:** (1) Answer any **four** questions choosing at least one from each section.
(2) Each Question carries **five** Marks.

Group 1

11. Describe the process of making swivel weave.

12. Describe the process of making spot weave.
13. Describe the structure and appearance of rib weave.

Group 2

14. Explain denting plan.
15. Describe various types of needle point lace.
16. Explain the causes for broken ends woven in bunch, and gout.

PART - C

Marks: 4 x 10= 40

Instructions: (1) Answer any **four** questions choosing at least one from each section.

(2) Each Question carries **ten** Marks.

Group 1

17. Describe the construction of double weave.
18. Describe the process of making lappet weave.
19. Describe the structure, appearance and examples for satin weave.

Group 2

20. Describe the projectile weaving.
21. Describe the malipol technique.
22. Describe any two varieties of twill weave.

Department of Technical Education
State Board of Technical Education & Training (TS)

Course Title : Pattern Engineering and Dress Components	Course Code : 18GT-204C
Semester : II	Course Group : Core
Teaching Scheme in Hrs. (L:T:P) : 2.4:1.6:0	Credits : 3
Type of course : Lecture + Tutorial	Total Contact Periods : 60 Pds
CIE : 60 Marks	SEE : 40 Marks

DISTRIBUTION OF QUESTIONS/MARKS FOR SEMESTER MID/END EXAMINATION

Module	Unit No.	No. of Periods	Number Of Questions To Be Considered										Unit Wise Weightage	(MS+EE) Weightage
			R		U		A		Marks Weightage					
			MID	END	MID	END	MID	END	MS I	MS II	MS III	End Exam		
PART-A	I	09	02	01	02	01	01	-	24	-	-	07	31	74
	II	09	03	01	01	-	02	01	31	-	-	12	43	
PART-B	III	09	02	01	02	01	01	-	-	24	-	07	31	74
	IV	09	03	01	01	-	02	01	-	31	-	12	43	
PART-C	V	12	03	-	02	-	01	01	-	-	26	10	36	72
	VI	12	02	01	01	01	02	-	-07	-	29	07	36	
TOTAL		60	15	05	09	03	09	03	55	55	55	55	220	220
											110			

LEGEND	R: Remembering
	U: Understanding
	A: Application

Pre requisites

This course requires the awareness of sewing and use of Sewing machinery, basic knowledge of mathematics acquired at secondary school education.

Course Objectives

To introduce the students to

1. Concepts of pattern engineering.
2. Drafting, stitching, selection of dress components and handling of fabric made of various materials.

Course Outcomes

- CO1 : Apply the techniques of pattern making to make different patterns.
- CO2 : Identify and explain the different types of skirts and yokes.
- CO3 : Analyze the type of pockets to be used based on location on garment and the procedure to make the pockets.
- CO4 : Classify sleeves and explain the construction, use, based on fabric, garment trends.
- CO5 : Categorize fabrics based on handling requirements and choose the correct method when using fabric for apparel construction.
- CO6 : Explain the making of collars, uses of collars, application of collars on garments.

Course Content

UNIT 1 - Pattern Engineering

Duration: 9 Periods (L: 5.4- T: 3.6)

Definitions of grain, on-grain, off-grain, selvedge- importance of grain - definition of drafting -flat pattern designing -different types of patterns- drafting technique: advantages of -drafting, pattern making (commercial patterns), draping - principles for pattern drafting - Markings on paper patterns -advantages of paper patterns - pattern layouts - Length wise centrefold –off center length wise fold –crosswise centrefold –off center crosswise fold –double fold –combination fold –open layout - Pattern Alterations/grading - reduce the measurements of pattern- back bodice- bodice front- sleeve- skirt back- skirt front-enlarge the measurements of a pattern- bodice back- bodice front- sleeve- skirt back- skirt front- tools for pattern making / drafting.

UNIT 2–Yokes and Skirts:

Duration: 9 Periods (L: 5.4 – T: 3.6)

Yokes and skirts-Define yoke- areas on a garment where yokes are placed- factors considered in selection of yoke design- tips for creating variety in yoke design-the seams used for application of yokes- the process of making yokes with fullness- process of making yokes without fullness-Draw different yoke designs-measurements necessary for stitching skirts- fabrics suitable for making skirts-Estimate the fabric requirement for different types of skirts- procedure for drafting and stitching of minimum flare skirt- process of making knife pleats skirt- process of making box pleat and inverted box pleat skirt- process of making circular, semi-circular and quarter circle skirts.- Wrap over skirt making – drafting and stitching skirt with uneven hemline. Drafting and stitching of skirt with yoke.

UNIT 3 – Pockets

Duration 9 periods (L 5.4 T: 3.6)

purpose of pocket- the ways of creating variety in pocket design- the criteria for selection of pocket design- the steps in making unlined patch pocket- the steps in making lined patch pocket- process of making All- in -one in-seam pocket- the process of making Separate in-seam pocket- the process of making Extension in-seam pocket- the construction of front hip pocket-the construction of bound pocket- location of pockets in garment- fabric calculation for making pockets- seams and stitches used in pocket making.

UNIT 4 - Sleeves:

9 Periods (L: 5.4 – T: 3.6)

Sleeves- the measurements necessary for making sleeves- the classification of sleeves- set in sleeve- styles in which full bodice or part of bodice is combined with the sleeve- -drafting and stitching of plain sleeve- drafting and stitching of puff sleeve with gathers at top and bottom- drafting and stitching of puff sleeve with gathers at top only- drafting and stitching of puff sleeve with gathers at bottom only- the drafting and stitching of bishop sleeve – drafting and stitching of circular sleeve - leg-o-mutton sleeve- raglan sleeve - kimono sleeve- batwing sleeve - dolman sleeve - epaulet sleeve- raglan sleeve - epaulet sleeve -bell sleeve- petal sleeve- sleeve selection for different age groups- sleeve selection for different fabric type and garments- fabric calculation for different types of sleeves.

UNIT 5 - Handling of Fabrics

Duration: 12 Periods (L: 7.2 – T: 4.8)

Handling of fabrics: Silk fabric: preparation to sewing: pattern, marking, cutting, underlining and lining, interfacing. Stitching and Handling: basting, thread and needle, stitch length and pressure, stitching, darts, seams and seam finishes, zipper closing, button holes, hems, pressing. **Knit fabrics:** preparation to sewing: pattern, shrinking, marking, cutting, underlining and lining, interfacing. stitching and handling: basting, thread and needle, stitch length and pressure, stitching, darts, seam blending, seam

finishes, finishing the edges, waist line joining, waist band, button holes, hems, pressing . Wash and wear fabrics: preparation to sew: pattern, marking, cutting, interfacing, stitching and handling: -thread and needle, stitch length and pressure, stitching. **Velvet, velveteen, corduroy:** preparation to sew: pattern, fitting, marking, cutting, interfacing, underlining and lining, stitching and handling: basting, thread and needle, stitch length and pressure, stitching, seam finishes, darts, underlining and lining, zipper closing, hems, pressing. **Lace fabric:** preparation to sew: pattern, cutting, marking, underlining and lining, stitching and handling: basting, thread and needle, stitch length and pressure, stitching, darts, seams and seam finishes, seam blending, finishing the edges, zipper closing, fastenings, hems, pressing, separately.

UNIT 6 - Collars

Duration: 12 Periods (L: 7.2– T: 4.8)

State the purpose of adding collar to the neckline of a garment- different ways of creating variety in collar designs- the factors to be considered in designing collar styles- factors to be considered in designing collar styles- classification of collars- general instructions followed while preparing patterns for different types of collars- three methods used for making collar patterns-drafting and application of collars- peter pan collar (one piece and two piece- partial roll peter pan collar- cape collar- scalloped collar- puritan collar- sailor collar- reverse collar- square collar- rippled collar- shawl collar- flared jabot- full roll convertible collar- full shirt collar- Chinese collar- turtle neck collar- soft tailored collar

Recommended Books

1. Dress Designing - Manmeet Sodhia- Kalyani publishers
2. Textbook of Clothing and Textiles- Sushma Gupta , Neeru Garg- Kalyani Publishers
3. Better Homes- Sewing BOOK- Collins- London.
4. Gladys Cunningham- Singer Sewing Book- Golden Press -New York
5. Collins – Encyclopedia of Dress Making, Golden Hands.
6. Constance Talbot – The Complete Book of Sewing, London Museum Trust Ltd.
7. Mary Mathews – Practical Clothing Construction, Part I & II, Madras.
8. Sherie Doongaji – Basic Processes and Clothing Construction, New Raj Book Depot, New Delhi
9. Allyne Bane-Creative clothing construction-McGraw -Hill Book Company-New York
10. Introduction to Dress Making- Marshall Cavendish-Hong kong
11. Readers Digest complete guide to sewing
12. Virginia Stolpe Lewis- Comparative Clothing Construction Techniques- Surjeet Publications- Delhi

13. Ritu Jindal – Hand book for Fashion design- Mittal publications

Specific Learning Outcomes

On completion of the course, the student should be able to

Specific Learning Outcomes

1. Pattern Engineering

- 1.1 Define grain, on-grain, off-grain, selvedge.
- 1.2 Explain importance of grain.
- 1.3 Define drafting, flat pattern designing –
- 1.4 List different types of patterns.
- 1.5 State the advantages of drafting.
- 1.6 List advantages of - commercial patterns
- 1.7 Define draping.
- 1.8 Explain the principles for pattern drafting.
- 1.9 Explain the symbols / Markings on paper patterns.
- 1.10 State the advantages of self-made paper patterns.
- 1.11 Describe different fabric/pattern lay outs with examples- Length wise centrefold –off centre length wise fold –crosswise centrefold –off centre crosswise fold –double fold –combination fold –open layout .
- 1.12 Define Pattern Alterations/grading.
- 1.13 Explain the procedure to reduce the measurements of pattern- back bodice- bodice front- sleeve- skirt back- skirt front-enlarge the measurements of a pattern- bodice back- bodice front- sleeve- skirt back- skirt front.

2. Yokes and Skirts

- 2.1 Define yoke
- 2.2 List the areas on a garment where yokes are used.
- 2.3 Explain the factors considered in selection of yoke design.

- 2.4 Explain the tips for creating variety in yoke design.
- 2.5 List the seams used for application of yokes.
- 2.6 Explain the process of making yokes with fullness.
- 2.7 Explain the process of making yokes without fullness.
- 2.8 Draw different yoke designs.
- 2.9 List the measurements necessary for stitching skirts.
- 2.10 List the fabrics suitable for making skirts.
- 2.11 Estimate the fabric requirement for different types of skirts.
- 2.12 Explain the procedure for drafting and stitching of minimum flare skirt.
- 2.13 Explain the process of making knife pleats skirt.
- 2.14 Explain the process of making box pleat and inverted box pleat skirt.
- 2.15 Explain the process of making circular, semicircular and quarter circle skirts.
- 2.16 Explain the process of making wrap over skirt.
- 2.17 Explain the drafting and stitching of skirt with uneven hemline.
- 2.18 Explain the drafting and stitching of skirt with yoke.

3. Pockets

- 3.1 State the purpose of pocket.
- 3.2 Explain the ways of creating variety in pocket design.
- 3.3 Explain the criteria for selection of pocket design.
- 3.4 Explain the steps in making unlined patch pocket.
- 3.5 Explain the steps in making lined patch pocket.
- 3.6 Explain the process of making All- in -one in-seam pocket.
- 3.7 Explain the process of making Separate in-seam pocket.
- 3.8 Explain the process of making Extension in-seam pocket.
- 3.9 Explain the construction of front hip pocket.
- 3.10 Explain the construction of bound pocket.

4. Sleeves

- 4.1 List the measurements necessary for making sleeves

- 4.2 Give the classification of sleeves.
- 4.3 Illustrate the drafting and stitching of plain sleeve.
- 4.4 Illustrate the drafting and stitching of puff sleeve with gathers at top and bottom.
- 4.5 Illustrate the drafting and stitching of puff sleeve with gathers at top only.
- 4.6 Illustrate the drafting and stitching of puff sleeve with gathers at bottom only.
- 4.7 Describe the drafting and stitching of bishop sleeve with illustrations.
- 4.8 Describe the drafting of circular sleeve and leg-o-mutton sleeve with illustrations.
- 4.9 Describe the drafting of raglan sleeve and kimono sleeve with illustrations.
- 4.10 Describe the drafting of batwing sleeve and dolman sleeve with illustrations.
- 4.11 Illustrate the process of making epaulet sleeve.
- 4.12 Explain the steps in construction of raglan sleeve with illustrations.
- 4.13 Explain the steps in construction of epaulet sleeve with illustrations.
- 4.14 Describe the drafting and stitching of bell sleeve.
- 4.15 Describe the drafting and stitching of petal sleeve.

5. Handling of Different Fabrics

- 5.1 Describe the preparation of Silk for sewing
- 5.2 Describe the stitching and Handling of silk fabric.
- 5.3 State the thread and needle to be used for stitching silk fabric.
- 5.4 Describe the preparation of Knit fabric for sewing.
- 5.5 Describe the stitching and handling of knit fabric
- 5.6 Describe the preparation of Wash and Wear fabrics for sewing.
- 5.7 Describe the stitching and handling of Wash and wear fabric
- 5.8 Describe the preparation of Velvet, velveteen, corduroy for sewing

5.9 Describe the stitching and handling of Velvet, velveteen, corduroy

5.10 Describe the preparation of Lace for sewing.

5.11 Describe the stitching and handling of lace fabric.

6. Collars

6.1 State the purpose of adding collar to the neckline of a garment.

6.2 State different ways of creating variety in collar designs.

6.3 List the factors to be considered in designing collar styles.

6.4 Explain the factors to be considered in designing collar styles.

6.5 Give the classification of collars.

6.6 State the general instructions followed while preparing patterns for different types of collars.

6.7 State the three methods used for making collar patterns.

6.8 Name the different collars.

6.9 Describe the drafting of Peter Pan collar (one piece and two piece) with illustrations.

6.10 Describe the drafting and stitching of partial roll peter pan collar with illustrations

6.11 Describe the drafting and stitching of cape collar with illustrations.

6.12 Illustrate the drafting and stitching of scalloped collar.

6.13 Illustrate the drafting and stitching of puritan collar.

6.14 Illustrate the drafting and stitching of sailor collar.

6.15 Explain the steps in preparing pattern for reverse collar with illustrations.

6.16 Illustrate the drafting and stitching of square collar

6.17 Explain the drafting of rippled collar with illustrations.

6.18 Explain the drafting of shawl collar with illustrations.

6.19 Illustrate the drafting and stitching of flared jabot collar.

- 6.20 Explain the drafting of full roll convertible collar with illustrations.
- 6.21 Explain the drafting of full shirt collar with illustrations.
- 6.22 Explain the drafting of Chinese collar with illustrations.
- 6.23 Explain the drafting of turtle neck collar with illustrations.
- 6.24 Explain the steps in preparing pattern for soft tailored collar with illustrations.
- 6.25 Explain the steps in construction of Peter Pan collar with illustrations.
- 6.26 Explain the steps in construction of full shirt collar with illustrations.
- 6.27 Explain the steps in construction of Chinese or mandarin collar with illustrations.
- 6.28 Explain the steps in construction of turtle neck collar with illustrations.
- 6.29 Explain the steps in construction of shawl collar with illustrations.
- 6.30 Explain the steps in construction of sailor collar with illustrations.

Suggested Student Activities

1. Student visits Library to refer to drafting and designing Manuals, read newspaper articles on designing.
2. Student visits nearby popular boutiques to learn customized and mass production.
3. Visit nearby Industry to familiarize with mass production concepts.
4. Quiz
5. Group discussion
- 6 Seminar
- 7 Surprise test.

List of E-Learning References

1. <https://www.threadsmagazine.com/2008/12/06/draft-a-two-piece-collar-with-a-stand>
2. <https://style2designer.com/pattern-cutting-cad-cam/cutting-sewing-techniques/shirt-sleeve-cuff-collar-drafting/>
3. <https://www.universityoffashion.com/blog/constructing-collars/>

Internal evaluation

Test	Units	Marks	Pattern
Mid Sem 1	1 and 2	20	Part A 5 Short answer questions Part B 2 Essay questions out of 3 Questions Part C 2 Essay questions out of 3 Questions
Mid Sem 2	3 and 4	20	Part A 5 Short answer questions Part B 2 Essay questions out of 3 Questions Part C 2 Essay questions out of 3 Questions
Slip Test 1	1 and 2	5	2 Essay Questions out of 3 Questions
Slip Test 2	3 and 4	5	2 Essay Questions out of 3 Questions
Assignment	1	5	Different group assignments of Higher order Questions that develop problem solving skills and critical thinking should be given
Seminars	1	5	
	Total	60	

Semester End Examination marks distribution

	Short answer	Essay	Marks
Part A	10	0	20
Part B	0	4/6	20
Part C	0	4/6	40
Total	10	8/12	80

Model Semester End Examination Pattern
(Duration 3 periods. 80 Marks)

	Number of Questions	Type	Marks/question	Marks	Total 80
Part A	10/10	Short answer	2	20	20
Part B Group - 1 Group - 2	2/3 2/3	Essay	5	10 10	20
Part C Group - 1 Group - 2	2/3 2/3	Essay	10	20 20	40

Mid Sem Examination marks distribution

	Short answer	Essay	Marks
Part A	5	0	10
Part B	0	2/3	10
Part C	0	2/3	20
Total	5	4/6	40

CO-PO Mapping Matrix

Course Outcome		CL	Linked PO	Teaching Hours
CO1	Apply the techniques of pattern making to make different patterns.	R/U/A	1,2,3,10	9
CO2	Identify and explain the different types of skirts and yokes	R/U/A	1,2,3,10	9
CO3	Analyze the type of pockets to be used based on location on garment and the procedure to make the pockets.	R/U/A	1,2,5,10	9
CO4	Classify sleeves and explain the construction , use based on fabric, garment trends	R/U/A	2,10	9
CO5	Categorize fabrics based on handling requirements and choose the correct method when using fabric for apparel construction.	R/U/A	2,10	12
CO6	Explain the making of collars, uses of collars, application of collars on garments.	R/U/A	2,10	12
				60

STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TELANGANA
DIPLOMA IN GARMENT TECHNOLOGY.

SUB CODE: 18GT-204C

PATTERN ENGINEERING AND DRESS COMPONENTS

MID SEM -I EXAM MODEL PAPER

TIME: 90 MIN

TOTAL MARKS: 40

PART – A

Marks: 5 X 2= 10

Instructions: (1) Answer all questions
(2) Each question carries **two** marks.

1. Define the term pattern.
2. List two advantages of commercial pattern.
3. State two types of skirts used for school uniform.
4. State the fabrics suitable for making skirts for use in hot summer.
5. List the measurements required for stitching ankle length skirt.

PART - B

Marks: 2 x 5 = 10

Instructions: (1) Answer any **two** questions.
(2) Each question carries **five** marks.

6. Describe open layout and double fold layout.
7. Explain the importance of grain in garments.
8. Calculate the material requirement for making any skirt of your choice for a three year old baby with skirt length of 30 cm length.

PART - C

Marks: 2 x 10= 20

Instructions: (1) Answer any **two** questions choosing at least one from each section.
(2) Each question carries **ten** marks.

9. Explain the advantages of making our personal patterns.
10. Describe the process of making a fancy skirt for a school day party.
11. Describe the application of yoke to skirt.

STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TELANGANA

DIPLOMA IN GARMENT TECHNOLOGY.

SUB CODE: 18GT-204 C

PATTERN ENGINEERING AND DRESS COMPONENTS

MID SEM -II EXAM MODEL PAPER

TIME: 90 MIN

TOTAL MARKS: 40

PART – A

Marks: 5 X 2= 10

Instructions: (1) Answer all questions

(2) Each question carries **two** marks

1 State the location of pockets in a shirt.

2 State the advantages of having pockets in dress.

3 State the sleeves suitable for men's garments.

4 State the fabric suitable for making petal sleeves for a baby frock made of velvet cloth.

5 List two measurements needed for making petal sleeve.

PART - B

Marks: 2 x 5 = 10

Instructions: (1) Answer any **two** questions.

(2) Each question carries **five** marks

6 Describe the process of making patch pocket.

7 Describe the tips to create variety in pocket design.

8 Describe the process of drafting and attaching plain sleeve.

PART - C

Marks: 2 x 10= 20

Instructions: (1) Answer any **two** questions choosing at least one from each section.

(2) Each question carries **ten** marks.

9 Explain the suitability of bound pocket for blazer.

10 Describe the selection criteria to select sleeve designs for sari blouse.

11 Describe the process of drafting bell sleeve for use in skirt top.

STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TELANGANA
DIPLOMA IN GARMENT TECHNOLOGY
SUB CODE: 18GT -204C
PATTERN ENGINEERING AND DRESS COMPONENTS
SEMESTER END EXAM MODEL PAPER

TIME: 3 HOURS

TOTAL MARKS: 80

PART – A

Marks: 10 X 2= 20

- Instructions:** (1) Answer all questions
(2) Each question carries **two** marks.

1. State the reasons for using collars in men's dress.
2. State the measurements required for making peterpan collar drafting.
3. What is the needle size suitable for velvet fabric?
4. Name the threads suitable for use on velvet fabric.
5. State the needles suitable for stitching on wash and wear fabrics.
6. State the term drafting.
7. Define the term yoke.
8. State the pocket suitable for men's formal shirt.
9. Draw petal sleeve.
10. Draw the drafting of one piece Peter Pan collar.

PART - B

Marks: 4 x 5 = 20

- Instructions:** (1) Answer any **four** questions choosing at least one from each section.
(2) Each Question carries **five** Marks.

Group 1

11. Describe the drafting of two piece Peter Pan collar.

12. Describe the seams and seam finishes suitable for silk fabric.
13. Describe the threads and needles to be used for silk stitching.

Group 2

14. Write the principles of pattern making.
15. Explain the attaching of patch pocket to skirt.
16. Explain the process of making sailor collar drafting

PART - C

Marks: 4 x 10= 40

Instructions: (1) Answer any **four** questions choosing at least one from each section.
(2) Each Question carries **ten** Marks.

Group 1

17. Describe the making of full shirt collar
18. Describe the drafting and stitching of Chinese collar.
19. Describe the pattern suitable for making with silk fabric

Group 2

20. Describe the process of drafting and stitching semicircular skirt.
21. Describe the drafting process bishop sleeve.
22. Describe the seams and seam finishes to be used on velvet fabric.

Department of Technical Education
State Board of Technical Education & Training (TS)

Course Title : Fashion Concepts and Embellishments	Course Code : 18GT-205C
Semester : II	Course Group : Core
Teaching Scheme in Hrs. (L:T:P) : 2.4:1.6:0	Credits : 3
Type of course : Lecture + Tutorial	Total Contact Hours :45 Hrs./60 Pds
CIE : 60 Marks	SEE : 40 Marks

DISTRIBUTION OF QUESTIONS/MARKS FOR SEMESTER MID/END EXAMINATION

	Unit No.	No. of Periods	Number Of Questions To Be Considered										Unit Wise Weightage	(MS+EE) Weightage
			R		U		A		Marks Weightage					
			MID	END	MID	END	MID	END	MS I	MS II	MS III	End Exam		
PART-A	I	09	2	1	2	1	1	-	24	-	-	07	31	74
	II	09	3	1	1	-	2	1	31	-	-	12	43	
PART-B	III	09	1	1	1	-	1	1	-	17	-	12	29	74
	IV	09	4	1	2	1	2	-	-	38	-	07	45	
PART-C	V	12	3	-	1	-	2	1	-	-	31	10	41	72
	VI	12	2	1	2	1	1	-			24	07	31	
TOTAL		60	15	05	09	03	09	03	55	55	55	55	220	220
											110			

LEGEND	R: Remembering
	U: Understanding
	A: Application

PREREQUISITE

This course requires the knowledge of social sciences acquired in school education. .

Course Outcomes

- CO1 : Develop designs inspired by different designers and from the information accessed through sources of inspiration.
- CO2 : Demonstrate the fashion drawing skills and explain the fashion terminology.
- CO3 : Explain the role of clothing in communication.
- CO4 : Explain the use of trimmings, decorations and embellishments in dress making.
- CO5 : Apply the principles and elements of design when designing apparel.
- CO6 : Explain the principles of fashion and related concepts.

Course Content

UNIT 1 - Source of inspiration and Fashion Designers Duration: 9 Periods (L:6- T: 4)
Sources of inspiration- printed sources of inspiration-trade newspapers-daily or weekly, consumer's new papers-consumer domestic magazines-pattern maker publications- pattern books-design and retailing reports-foreign trade and fashion publications-domestic trade and special interest publications- Historical publications **Good work habits-** scrap-sketch or croquis book- Researching Other Designers-manufacturers garments- yours and others-Fabrics- Organizing your store information-Draping and Pattern making. **Other sources of inspiration-** Rag bag -Collecting Trims-Collecting Garments-Museums and Fine Arts-Historical and Ethnic Costumes-Films, Televisions and Videos doodling -Life Styles-Home Furnishing Trends. Nature – Travel Internet. **Fashion Designers**1-Ritu Kumar- 2- Hemanth Trivedi-3Bhanu Athaiya- 4Neetu Lulla-5 Mita Parekeh—6Rohit Bal-7Rohit khosla -8Suneet Vema-9 Ritu Beri- 10 Wendell Rodricks.

UNIT 2– Fashion Drawing and Terminology

Duration: 9 Periods (L: 4.8 – T: 3.2)

Tools used for sketching- Techniques of holding pencil-Pencil techniques and Shading- Eight head theory--Steps to draw correctly proportioned Fashion Figure- 1 Plan the page-2 Plan the proportion – Vertical and Width measurements-3 Geometric body shapes-4 fleshing out the figure-- - Four basic steps to move a figure-(1 proportion the page -2 draw in the head, curve the spine from neck to crotch-3 mark in position of the feet-4 draw the angle of the shoulders)hips and knees).- Choosing the pose-Facial features-Tips for drawing the hands-Tips for drawing arms-Tips for drawing legs-Tips for sketching the garments- Four basic ways to balance out of proportion figures-Production sketch- Details provided in production sketch -Reference folder-Fashion photograph-Fashion illustration- Differences between male and female figure . Fashion prediction boards-research boards-colour boards-profile board-fashion design presentation board-.Stylist- Aegis- Bridge jewellery-Costume jewellery- Adaptation-Style piracy-Style number-Fashion trend- Filigree -Fashion Group- Fashion image- Fashion consultant- Fashion coordinator- Fashion season- Fashion Editor-Fashion Group – Fashion Director- Fashion Plate-Fashion Marks- Fashion calendar- Fashionista-Fashion Forward- Fashion Victim- Reorder Number- Artisans- Bridge Fashion - Knock off- Couturier- Mass Customization-Hound’s tooth.

UNIT 3 – Clothing Culture and Communication

Duration: 9 Periods (L: 4.8 – T: 3.2)

Reasons for wearing clothes – clothing for protection – clothing for modesty – clothing for adornment - preserving cultural expression - clothes and garments as a means of signs- codes for clothing signs- information communicated by clothing- groups- role and status – economic position – social status - sex differentiation with clothing – Age differentiation – Marital status – Political beliefs – Religious ideas – Technical changes and industrialization – Aesthetic patterns .

UNIT 4 - : Trimmings, Decorations and embellishments Duration: 9 Periods (L: 7.2 – T: 4.8)

Trimmings and decorations -factors to consider when selecting trimmings. **BELTS-** 1 Straight2 Contour 3 Tie-a) Spaghetti (b) Straight (Bias. **Pockets-** guidelines to be followed when using pockets on a garment - 1 Patch pocket2 Slashed pocket- (a Welt or buttonhole pocket (b) Upright flap(c) Flap)3 pockets hidden in a seam. Fastenings- Buttons- selection criteria for buttons- Buttonholes-Loop fastenings-placement of buttons and buttonholes-Zippers-Velcro Fasteners-Snaps-Hardware. Use of Velcro, snaps and hardware in dress **Lacings Ties. Smocking – types- process, Binding and piping. Shaped edges-** Scallops-Fagotting-Bias Cording-Crochet Edging-Picot edge. **Ruffles-**Straight ruffle variations-1 simple straight ruffle 2 Bias ruffle 3 Pleated ruffle 4 Centrally gathered ruffle5 Edge finished with a ruffle 6 Lace ruffle 7 Area ruffle. Circular ruffles Braids, ribbons, ric rac, Straight trims- Grosgrain Ribbons-Satin Ribbons-Novelty woven’s**Area trims-** 1

quilting- English quilting- Materials-Designs- Stitches used (Back stitch, chain stitch& running stitch)-working method. Italian or corded quilting- Materials and design- working method. Shadow Trap unto quilting-materials- design- working method 3 Tucking-pin tucking-vertical- diagonal-horizontal. Contrast fabric trim. Embroidery Appliqués. Beads.

UNIT 5 - Design Concepts

Duration: 12 Periods (L: 7.2 – T: 4.8)

Definition of design- Definition of structural design- Definition of Applied design. Principles of design- Balance- Formal/ Symmetric Balance /- Informal/Asymmetric- Radial- Vertical and Horizontal balance- Formal balance combined with informal balance in clothing- use of Balance in dress design. Proportion – Basic Laws of Proportion –Proportion applied to Clothing Design- Proportion of Textures-Proportion of fabric designs-Proportion of Colour -Proportion and body conformation. **Rhythm**- Types- by repetition-by progression or gradation -rhythm by radiation or organized movement-rhythm by continuous flowing lines – use of Rhythm in dress designing **Harmony or Unity**- six basic principles of unity with examples. **Emphasis**- Ways to create emphasis in clothing-Repetition or Concentration-Unusual lines or Shapes, Textures-Decoration on a contrasting back ground- Contrast or opposition-Progression - Emphasis in dress design. **Elements of design** – Line - Form – Shape- Space-Texture-**LINE** - Definition of line- Lines based on direction - vertical- horizontal- diagonal- Lines based on application in dress- structural and decorative lines – Line types- straight- curved – zig zag. -Effects/Illusions created by line in dress. **Form and shape**-definition- visual effects of shapes- – use of shapes in dress design. **Texture**-Components that determine texture- Fashions in texture-Effects of textures on physical proportions- / proportion of textures-soft and clingy fabrics-stiff-bulk fabrics-shiny textures-dull textures-textures that are not extreme-Expressing personality through texture selection-Harmony in texture combination- Contrast of textures with accessories.**Colour**- Definition - Prang colour system – Munsell system-Dimensions of colour- Hue – Value – Intensity- Tints- Shades - Tone Classification of colours – Primary – secondary – intermediate hues-tertiary colours- quaternary colours.Colour harmonies/ schemes- Monochromatic- Analogous- complementary- double complement—split complement-mutual complement-split mutual complement- triad.

UNIT 6 - Principles of Fashion and Theories of Fashion

Duration: 12 Periods (L: 7.2 – T:4.8)

Principles of Fashion-Fashion is introduced as a Style-Fashion is established by consumers-Fashion is not based on Price-Fashion is evolutionary and rarely revolutionary-Fashion follows a direction-All fashions ends in excess. **Features of fashion**- Acceptance and change. **Factors affecting fashion** - Economic factors- Sociological factors- Psychological factors. Economic factors-consumer income- Purchasing Power-Population-Technological achievements- Sociological Factors-Recreation and physical fitness-Retirement Leisure-Women power-Social Status-Physical Mobility-Entertainment-Famous Personalities-Calamities- Psychological Factors-Boredom-Curiosity-Rebellion against convention-Self-Assertion-Companionship. **Stages of Fashion cycle**-Introduction- Rise in popularity-Culmination or peak in popularity-Decline in popularity-

Obsolescence. Fashion cycles for classics-Fashion cycles for Fads Nature of Fashion – High Fashion – Mass Fashion. **Theories of Fashion** –The Trickle Down or Downward Flow theory-The Trickle Across or Horizontal Flow theory-The Trickle up or Upward Flow theory. Fashion Leaders and Fashion Followers.

Recommended Books

1. Elements of Fashion – Kalyani Publishers.
2. Text book of textiles and clothing- Sushma Gupta Neeru Garg- Kalyani Publishers.
3. Art in Everyday Life – Goldstein
4. Inside the fashion Business Kitty G Dickerson-Pearson Education- Delhi
5. Inside Fashion Design – Sharon Lee Tate-
6. Dress Designing- Manmeet Sodhia- Kalyani Publisher.- Pearson;
7. Suzanne Marshall Individuality in Clothing Selection and Personal Appearance
8. Elizabeth Rouse – Understanding Fashion – BSP Professional Books.
9. Meher - Fashion Kaleidoscope - Rupa & Co

Specific Learning Outcomes

1. Source of inspiration and Fashion Designers

- 1.1 List the various printed sources of inspiration.
- 1.2 Explain the following printed sources of information- Trade newspapers, Daily or weekly consumer newspapers and consumer domestic magazines.
- 1.3 Explain the following printed sources of information - -pattern maker publications-pattern books-design and retailing reports-foreign trade and fashion publications-domestic trade and special interest publications- Historical publications.
- 1.4 Describe the following sources of information- (a) scrap(b)sketch or croquis book(c)researching other designers.
- 1.5 Describe the following sources of inspiration- – Rag bag -Collecting Trims-Collecting Garments-Museums and Fine Arts-Historical and Ethnic Costumes-Films, Televisions and Videos-Life Styles-Home Furnishing Trends.
- 1.6 Describe the works of Ritu Kumar and Hemanth Trivedi .

- 1.7 Explain the creative clothing styles of Bhanu Athaiya and Neetu Lulla .
- 1.8 Explain the creative clothing styles of Mita Parekeh and Rohit Bal.
- 1.9 Explain the creative clothing styles of Rohit khosla.
- 1.10 Explain the creative clothing styles of Wendell Rodricks.
- 1.11 Explain the creative clothing styles of Ritu Beri .
- 1.12 Explain the creative clothing styles of Suneet Vema.

2.0 **Fashion Drawing and Terminology**

- 2.1 List the Tools used for sketching.
- 2.2 State the techniques of holding pencil.
- 2.3 Show the Techniques of holding pencil. Explain Pencil techniques and Shading.
- 2.4 Describe eight head theory of fashion figure drawing .
- 2.5 Explain the Steps to draw correctly proportioned Fashion Figure.
- 2.6 Describe the Four basic steps to move a figure.
- 2.7 Explain the tips for choosing the pose.
- 2.8 Explain the tips for drawing Facial features.
- 2.9 State the Tips for drawing the hands, drawing arms and drawing legs.
- 2.10 State the Tips for sketching the garments.
- 2.11 Explain the Four basic ways to balance out of proportion figures.
- 2.12 Define Production sketch.
- 2.13 State the Details provided in production sketch.
- 2.14 Define Reference folder, Fashion photograph and Fashion illustration.
- 2.15 Differentiate male and female figure Drawing.
- 2.16 Define Fashion prediction boards, Research boards.
- 2.17 Define Colour boards.
- 2.18 Define Profile board.
- 2.19 Define Fashion Design Presentation board.

3.0 **Clothing Culture and Communication**

- 3.1 Explain the role of clothes and garments as a means of signs.
- 3.2 State the codes for clothing sign.
- 3.3 Explain the information communicated by clothing- groups- role and status.

4.0 **Trimmings , Decorations and embellishments**

- 4.1 Define the term trimming.
- 4.2 List the factors to consider when selecting trimmings.
- 4.3 List and explain the three main shapes for belts and their use in dress designing.
- 4.4 Explain the guide lines to be followed when using pockets on garment.
- 4.5 Describe the three main kinds of pockets and their possible variations which can be used in garment decoration.
- 4.6 Explain the things to be considered when selecting buttons.
- 4.7 Explain the use of buttonholes as decoration in garment designing.
- 4.8 Explain the use of loop fastenings in garment decoration.
- 4.9 Describe the placement of buttons and buttonholes as decoration in garments.
- 4.10 Describe the use of zippers in dress as functional and decorative feature.
- 4.11 Describe the use of Velcro, snaps and hardware in dress.
- 4.12 Describe the use of lace and ties as decoration in garments.
- 4.13 Describe the use of smocking, binding and piping in garment designing.
- 4.14 Explain the different shaped edges.
- 4.15 Explain the use of the seven basic variations of straight ruffles.
- 4.16 Explain the use of circular ruffles in garment.
- 4.17 Describe the use of braids, ribbons and ric rac in garments.
- 4.18 Explain the use of straight trims in garments.
- 4.19 Explain the process of making English quilting and Italian or corded quilting and shadow trapunto quilting.
- 4.20 Describe the use of contrast fabric trim in garment designing.
- 4.21 Explain the use of embroidery in garment designing.
- 4.22 Explain the use of appliqués in dress decoration.
- 4.23 Explain the use of beads in dress.

5.0 **Design Concepts**

- 5.1 Define Design.
- 5.2 Define Structural Design of clothing.
- 5.3 Define Applied Design of clothing
- 5.4 Define Balance.
- 5.5 Define Formal Balance/ symmetrical Balance.
- 5.6 Define Informal Balance/ Asymmetrical Balance.
- 5.7 Define Radial Balance and explain its use in garments.
- 5.8 Define Vertical and Horizontal Balance.
- 5.9 Describe the ways of combining Formal and Informal Balance in clothing.
- 5.10 Apply principles of Balance in designing garments.
- 5.11 List the basic Laws of Proportion.
- 5.12 Explain the use of Proportion as applied to Clothing design.
- 5.13 Explain the following as applied to dress design- Proportion of Textures-Proportion of fabric designs-Proportion of Colour -Proportion and body conformation.
- 5.14 Describe the use of Proportion in dress designing.
- 5.15 Describe the various ways of obtaining Rhythm.
- 5.16 Describe the ways of creating Rhythm in dress design.
- 5.17 Describe the six basic principles of unity or harmony with examples.
- 5.18 Describe the creation of Harmony in dress design.
- 5.19 Describe the various ways of creating Emphasis in dress design.
- 5.20 List and define design elements.
- 5.21 Define line and state the types of lines based on direction.
- 5.22 State and define lines based on application in dress.
- 5.23 Describe the illusions/effects created in dress by using line.
- 5.24 Define Space.
- 5.25 Define Form and Shape and describe the visual effects of shapes and use of shapes and form in dress design.

- 5.26 Describe the components of fabric that determine texture.
- 5.27 Explain fashions in textures.
- 5.28 Describe the Effects of textures on physical proportions.
- 5.29 Describe the ways of expressing personality through textures, Harmony in texture combination and Contrast of textures with accessories.
- 5.30 Define colour.
- 5.31 State Prang colour system.
- 5.32 State Munsell colour system.
- 5.33 Define Dimensions of colours.
- 5.34 Classify colours.
- 5.35 Define Tints, Shade, and Tone.
- 5.36 Describe related color harmonies- Monochromatic and Analogous colour schemes.
- 5.37 Describe Complementary and Double complementary colour schemes.
- 5.38 Explain Split complementary and mutual complementary colour schemes.
- 5.39 Explain Split Mutual Complementary and Triad colour schemes.

6.0 **Principles of Fashion and Theories of Fashion**

- 6.1 Define fashion .
- 6.2 Define the term style.
- 6.3 Explain principles of fashion.
- 6.4 Describe the features of fashion (Acceptance and change).
- 6.5 Explain various factors affecting fashion- (Economic factors- Sociological factors- Psychological factors. Economic factors- consumer income- Purchasing Power- Population-Technological achievements- Sociological Factors-Recreation and physical fitness-Retirement Leisure-Women power-Social Status-Physical Mobility- Entertainment-Famous Personalities-Calamities- Psychological Factors-Boredom-Curiosity-Rebellion against convention-Self-Assertion-Companionship.)
- 6.6 Explain Stages of Fashion cycle- Introduction- Rise in popularity-Culmination or peak in popularity-Divide in popularity-Obsolescence.
- 6.7 Analyze Fashion cycles for classics and Fashion cycles for Fads.
- 6.8 Define High Fashion and Mass Fashion.

- 6.9 Describe Theories of Fashion –The Trickle Down or Downward Flow theory-The Trickle Across or Horizontal Flow theory-The Trickle up or Upward Flow theory.
- 6.10 Explain Fashion Leaders and Fashion Followers.

Internal evaluation

Test	Units	Marks	Pattern
Mid Sem 1	1 and 2	20	Part A 5 Short answer questions Part B 2 Essay questions out of 3 Questions Part C 2 Essay questions out of 3 Questions
Mid Sem 2	3 and 4	20	Part A 5 Short answer questions Part B 2 Essay questions out of 4 Questions Part C 2 Essay questions out of 4 Questions
Slip Test 1	1 and 2	5	2 Essay Questions out of 3 Questions
Slip Test 2	3 and 4	5	2 Essay Questions out of 3 Questions
Assignment	1	5	Different group assignments of Higher order Questions that develop problem solving skills and critical thinking should be given
Seminars	1	5	
	Total	60	

Suggested Student Activities

1. Student visits Library to refer to Manuals, magazines, newspaper articles, domestic magazine articles.
2. Student visits the boutiques, apparel industries to learn the designing and stitching process.
3. Visit nearby artisans to observe the traditional motifs usage in dress designing.
- 4 visit nearby malls to study the trends in fashion.
4. Quiz
5. Group discussion
6. Surprise test

Suggested E-Learning references

Fashion blogs and sites

<http://www.fitnyc.edu/museum/about/links/fashion-sites.php>

<https://www.awwwards.com/50-fashion-websites.html>

<https://www.fashion.net>

Semester End Examination marks distribution

	Short answer	Essay	Marks
Part A	10	0	20
Part B	0	4/6	20
Part C	0	4/6	40
Total	10	8/12	80

Mid Sem Examination marks distribution

	Short answer	Essay	Marks
Part A	5	0	10
Part B	0	2/3	10
Part C	0	2/3	20
Total	5	4/6	40

CO-PO Mapping Matrix

Course Outcome		CL	Linked PO	Teaching periods
CO1	Develop designs inspired by different designers and from the information accessed through sources of inspiration	R/U/A	1,2,3,10	9
CO2	Demonstrate the fashion drawing skills and explain the fashion terminology	R/U/A	1,2,3,10	9
CO3	Explain the role of clothing in communication	R/U/A	1,2,5,10	9
CO4	Explain the use of trimmings, decorations and embellishments in dress making	R/U/A	2,10	9
CO5	Apply the principles and elements of design when designing apparel	R/U/A	2,10	12
CO6	Explain the principles of fashion and related concepts.	R/U/A	2,10	12
				60

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TELANGANA
DIPLOMA IN GARMENT TECHNOLOGY.**

SUB CODE: 18GT-201C

FASHION CONCEPTS AND EMBELLISHMENTS

MID SEM -I EXAM MODEL PAPER

TIME: 90 MIN

TOTAL MARKS: 40

PART – MARKS: 5 X 2= 10

Instructions: (1) Answer all question
(2) Each question carries **two** marks.

1. State the inspiration you get from films for fashion designing.
2. State the role of newspapers in inspiring people to design.
3. List the tools for fashion illustration.
4. Define the term fashion director.
5. Define the term knock off.

PART - B

Marks: 2 x 5 = 10

Instructions: (1) Answer any **two** questions.

(2) Each question carries **five** marks.

6. Describe the role of domestic magazines as source of inspiration.
7. Explain the tips for drawing hands.
8. Explain the tips for drawing legs.

PART - C

Marks: 2 x 10= 20

Instructions: (1) Answer any **two** questions choosing at least one from each section.

(2) Each question carries **ten** marks.

9. Describe how you are inspired by croquis book and rag bag.
10. What are the four basic steps to move a figure?
11. Describe the following – hounds tooth, fashion victim, bridge fashion and reorder number

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TELANGANA
DIPLOMA IN GARMENT TECHNOLOGY.**

SUB CODE: 18GT-205 C

FASHION CONCEPTS AND EMBELLISHMENTS

MID SEM –I I EXAM MODEL PAPER

TIME: 90 MIN

TOTAL MARKS: 40

PART – MARKS: 5 X 2= 10

Instructions: (1) Answer all questions
(2) Each question carries **two** marks.

- 1 State the term clothing culture.
- 2 State two trimmings suitable for new born baby dress.
- 3 State the areas on a sari blouse where smocking can be used.
- 4 Define smocking.
- 5 List the varieties of smocking.

PART - B

Marks: 2 x 5 = 10

Instructions: (1) Answer any **two** questions.

(2) Each question carries **five** marks

- 6 Describe the role of clothing in communicating age.
- 7 Describe the process of making smocking.
- 8 Describe the use of beads in dress design.

PART - C

Marks: 2 x 10= 20

Instructions: (1) Answer any **two** questions choosing at least one from each section.

(2) Each question carries **ten** marks.

- 9 Why are clothes considered as a means of signs?
- 10 Describe the use of any one type of appliqué in bed spread.
- 11 Describe the use of quilting in making a nighty

STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TELANGANA
DIPLOMA IN GARMENT TECHNOLOGY

SUB CODE: 18GT -205C

Fashion Concepts and Embellishments

Semester end exam model paper

TIME: 3 HOURS

TOTAL MARKS: 80

PART – MARKS: 10 X 2= 20

Instructions: (1) Answer all questions
(2) Each question carries **two** marks.

1. Define fashion.
2. Define style.
3. Define color.
4. Define space.
5. Define line.
6. State the role of films in inspiring designers.
7. List the tools for fashion drawing.
8. State the role of clothes in providing protection from environment.
9. Define the term trimming.
10. Define mass fashion.

PART - B

Marks: 4 x 5 = 20

Instructions: (1) Answer any **four** questions choosing at least one from each section.
(2) Each Question carries **five** Marks.

Group 1

11. Describe the fashion leaders.
12. Describe analogous color scheme.
13. Describe triad colour scheme use in a dress.

Group 2

14. Describe the clothing styles and fashion related works of Ritu Beri
15. Describe the use of ruffles in designing a baby frock.
16. Explain the stages of fashion cycle.

PART - C

Marks: 4 x 10= 40

Instructions: (1) Answer any **four** questions choosing at least one from each section.
(2) Each Question carries **ten** Marks.

Group 1

17. Explain the influence of principles of fashion in clothing selection.

18. Describe the use of vertical and horizontal lines in dress designing.
19. Explain the use of split complementary colour scheme in dress designing.

Group2

20. Describe the procedure to plan the space division in the page for fashion figure drawing.
21. Explain the role of clothing in communicating marital status.
22. Explain the use of shapes in dress design.

Department of Technical Education

State Board of Technical Education & Training (TS)

Course Title	Fabric Formation Technology Lab Practice	Course Code	18GT-206P
Semester	II	Course Group	Core
Teaching Scheme in Hrs(L:T:P)	7.5:00:37.5	Credits	1.5
Methodology	Lecture + Practical	Total Contact Periods	45Pds
CIE	60 Marks	SEE	40 Marks

Pre-requisites

This course requires drawing skills

Course Content and Blue Print of Marks for SEE:

Unit no.	Unit name	Periods	Questions for SEE			Marks weightage	Weightage (%)
			Design plan	Draft plan	Peg Plan		
1	Plain weave	8	05	20	15	40	100
2	Basket weave	7	05	20	15	40	100
3	Rib weave	7	05	20	15	40	100
4	Twill weave – Even twill	9	05	20	15	40	100
5	Twill Weave – Un Even	7	05	20	15	40	100
6	Satin Weave	7	05	20	15	40	100
Total		45				40	100

Course outcomes

Course Outcome		CL	Linked PO	Teaching Periods	Experiment
CO1	Construct design, draft and peg plan for plain weave.	R/U/A	1,2,3 , 4,7 ,8,9	08	1
CO2	Construct design, draft and peg plan for basket weave.	U/A	1,2, 3,4,,7,8,9,10	07	2
CO3	Construct design, draft and peg plan for rib weave	R/U/A	1, 2, 3, 4,5 6,7,8 9,10	07	3
CO4	Construct design, draft and peg plan for twill weave- Even	U/A	1 ,2,3,4, 9 10	09	4
CO5	Construct design, draft and peg plan for twill weave- Uneven	U/A	1, 2,3,4,10	07	5
CO6	Construct design, draft and peg plan for Satin weave	R/U/A	1, 2, 3, 4, 10	07	6

Specific Learning Outcomes:**1. Plain Weave**

1.1 Design, draft and peg plans for plain weave.

1.2 Types of draft plans – straight, pointed.

2. Basket Weave

2.1 Design, draft and peg plans for Basket weave.

2.2 Types of draft plans – straight, pointed

3. Rib Weave

3.1 Design , draft and peg plans for Rib weave.(Warp rib & weft rib - regular & irregular)

3.2 Types of draft plans – straight, pointed

4. Twill Weave – even twill

4.1 Design, draft and peg plans for the above twill weave.

4.2 Types of draft plans – straight, pointed broken draft.

5. Twill weave – Uneven twills

5.1 Design, draft and peg plans for uneven weave.

5.2 Types of draft plans – straight, pointed broken draft.

6. Satin Weave (regular & irregular)
 - 6.1 Design, draft and peg plans for satin weave.
 - 6.2 Types of draft plans – straight, pointed, broken draft

Note:

1. Record book should be maintained.

State Board of Technical Education and Training, Telangana

Semester End Examination Model Question paper

DGT III Semester Practical Examination

Course Code:18GT-206P

Duration:3 hours

Course Name: Fabric Formation Technology Lab Practice

Max.Marks:40

Instructions to the Candidate:

(i)Answer any One of the following Questions.

1. Prepare a design, draft and peg plan for basket weave.
2. Prepare a design, draft and peg plan for rib weave.
3. Prepare a design, draft and peg plan for plain weave.
4. Prepare a design draft and peg plan for satin weave.

18GT-207 P, Pattern Engineering and Dress Components Lab Practice

Course Title :	Pattern Engineering and Dress Components Lab Practice	Course Code	18GT-207P
Semester	II	Course Group	:Core
Teaching Scheme in Periods(L:T:P)	7.5:00:37.5	Credits	: 1.5
Methodology	Lecture + Practical	Total Contact Hours :	:45Pds
CIE	60 Marks	SEE	40 Marks

Pre requisites

This course requires the knowledge of basic sewing knowledge.

Course Content and Blue Print of Marks for SEE

Unit No	Unit name	Periods	Marks for SEE			Marks weightage	% Weightage
			Drafting	Cutting	Stitching		
1	Drafting Basic Pattern Set and Grading	8	30	5	5	40	100
2	Yokes	7	10	5	25	40	100
3	Skirts	7	10	5	25	40	100
4	Pockets	8	10	5	25	40	100
5	Sleeves	7	15	5	20	40	100
6	Collars	8	15	5	20	40	100
	Total	45				40	100

Course Outcomes

Course Outcome and CO PO Mapping		CL	Linked PO	Teaching Hours	Unit
CO1	Draft the basic patterns and grade them and use it for all further practical work.	R/U/A	1,2,3,4,5,7,8,9,10	8	1
CO2	Design, calculate fabric, make pattern, and stitch yokes	R/U/A	1,2,3,4,7,8,9,10	7	2
CO3	Design, calculate fabric, make pattern, and stitch skirts.	R/U/A	2,3,4,7,8,9,10	7	3,
CO4	Design, Draft and stitch pockets.	R/U/A	1,2,3,4,8,9,10	8	4
CO5	Design, Draft and Stitch Sleeves	R/U/A	1,2,3, 4, 8, 9, 10	7	5
CO6	Design, Draft and Stitch collars	R/U/A	1,2,3,4, 8, 9,10	8	6

Course Contents

1.0 Drafting Basic Patterns Set and Grading: Draft and stitch basic bodice front, back basic sleeve, basic skirt .Grade the basic patterns to smaller and bigger size.

2.0 Yokes: Drafting and stitching square yoke -round yoke- Drafting and stitching yoke with fullness – pleats- tucks.

3.0 Skirts :Drafting and stitching minimum flare skirt-Drafting and stitching Knife pleats skirt -Drafting and stitching full circle, semi-circle and quarter circle skirts- Drafting and stitching Tulip skirt – Estimate fabric requirement for making skirts-select suitable material for making skirts

4.0 Pockets- Draft and stitch – patch pocket- in -seam pockets-bound pocket.

5.0 Sleeves: Draft and stitch Plain sleeve- Puff sleeve - puff at top and bottom. - Bell sleeve- - Bishop sleeve- Raglan Sleeve-Kimono sleeve -Petal sleeve

6.0 Collars: Draft and stitch -one piece Peter Pan collar- two-piece Peter Pan collar- Cape collar - Sailor collar- Full Shirt collar.

Note: Record book should be maintained

Prepare 1/4th scale samples.

Recommended Books

1. Margaret G Butler-Clothes -Their Choosing Making and Care- B T Bats ford Ltd- London
2. K R Zarpkar – Zarpkar system of cutting -Navneet Publication- Mumbai
3. Sherie Doongaji Raushni Deshpande-Basic Processes and Clothing Construction- Raaj Prakashan Publishers- New Delhi
4. Helen Joseph Armstrong-Pattern Making for Fashion Design-Prentice Hall – New York
5. Anna Jacob Thomas – The Art of Sewing- UBSPD New Delhi

Specific Learning Outcomes:

1. Drafting Basic Patterns Set and Grading

- 1.1 Draft and Grade basic bodice block front.
- 1.2 Draft and Grade basic bodice block back.
- 1.3 Draft and Grade basic sleeve block.
- 1.4 Draft and Grade basic skirt block.

2. Yokes

- 2.1 Draft and Stitch square yoke, round yoke
- 2.2 Draft and Stitch yoke with fullness – pleats, tucks.

3. Skirt

- 3.1 Draft and Stitch minimum flare skirt.
- 3.2 Draft and Stitch full circle, semi-circle and quarter circle skirts
- 3.3 Draft and Stitch Tulip skirt
- 3.4 Estimate fabric requirement for making skirts

4. Pockets

- 4.1 Stitch Patch pocket.
- 4.2 Stitch All -in one in -seam pocket
- 4.3 Stitch Separate in-seam pocket
- 4.4 Stitch Extension in-seam pocket
- 4.5 Stitch Bound pocket

5. Sleeves

- 5.1 Draft and stitch plain sleeve
- 5.2 Draft and stitch puff sleeves- puff at top and bottom.
- 5.3 Draft and stitch Bell sleeve.

- 5.4 Draft and stitch Bishop sleeve
- 5.5 Draft and stitch Raglan sleeve.
- 5.6 Draft and stitch Kimono sleeve.
- 5.7 Draft and stitch Dolman sleeve.
- 5.8 Draft and stitch Petal sleeve.

6. Collars

- 6.1 Draft and stitch one piece Peter Pan collar.
- 6.2 Draft and stitch two-piece Peter Pan collar
- 6.3 Draft and stitch Cape collar.
- 6.4 Draft and stitch Scallops collar.
- 6.5 Draft and stitch Sailor collar.
- 6.6 Draft and stitch Puritan collar
- 6.7 Draft and stitch Full Shirt collar.

State Board of Technical Education and Training, Telangana

Semester End Examination Model Question paper

DGT II semester practical Examination

Course Code: 18GT -207 P

Duration: 3 hours

Course Name: Pattern Engineering and Dress Components Lab Practice

Max. Marks: 40

Instructions to the Candidate:

(i) Answer any One of the following Questions.

(ii) Write the drafting procedure with neat diagrams.

(iii)

1. Prepare a 1/4th bodice block with the given measurements.
2. Make a peter pan collars to fit the bodice block prepared.
3. a) Prepare a 1/4th standard bodice block with the given measurements.
b) Prepare one puff sleeve with puff at top to join it to the prepared bodice block
4. a) Make a standard skirt block.
b) Make an in seam pocket for the skirt block prepared.
5. a) Prepare a standard bodice block.
b) Attach a yoke without fullness to the bodice block prepared with fabric.

18GT-208P, Fashion Concepts and Embellishments Lab Practice

Course Title :	Fashion Concepts and Embellishments Lab Practice	Course Code	18GT-208P
Semester	II	Course Group	: Core
Teaching Scheme in Periods(L:T:P)	7.5:00:37.5	Credits	: 1.5
Methodology	Lecture + Practical	Total Contact Hours:	:45Pds
CIE	60 Marks	SEE	40 Marks

Pre requisites

This course requires the knowledge of basic drawing, painting, and sewing

Course Content and Blue Print of Marks for SEE

Unit No	Unit name	Hours / Period s	Marks for SEE			Marks weightage	% Weightage
			Principles of Design/art composition	Skill	Proficiency		
1	Fabric Painting	15	10	25	5	40	100
2	Dress Components Drawing	15	05	25	5	40	100
3	Fashion Figure Drawing	15	05	25	05	40	100
	Total	45		14	10	40	100

Course Outcomes

Course Outcome		CL	Linked PO	Teaching Hours	Unit
CO1	Make colour wheels for different colour scheme and practice fabric painting technique	R/U/A	1,2,3,4,5,7,8,9,10	15	1
CO2	Draw dress parts	U/A	1,2,3,4,7,8,9,10	15	2
CO3	Draw the limbs – upper, lower and fashion figure drawing	U/A	2,3,4,7,8,9,10	15	3

Course Contents

Course content

- Fabric Painting** - Prepare colour wheel of primary, secondary and intermediate colours.- Prepare colour schemes of analogous, monochromatic, complementary , double complementary and triad.**Fabric Painting:** - Tools – flat and round brushes of different sizes – Frame Palette. Techniques- Wash, Base coating, Shading, Highlighting. Brush strokes- C Stroke- S Stroke-Inverted C- Stroke Ribbon- Scroll- Tear drop. Full loading of Flat brush. Side loading of flat brush. Brush marks- variation created by the amount of paint on brush, angle of stroke, texture of the fabric, speed of stroke, pressure applied when making stroke. Dry brush
- Dress components Drawing - (Neck lines, Sleeves, Pockets, Cuffs, Collars, Yokes and Skirts)** Neck line shapes- Round- U neck-Square neck-Off shoulder-V shaped neck- Scooped- Key Hole-Halter-Scalloped-Décolletage- One shoulder-sleeves- Plain – Puff sleeve with Puff at Top- Puff at Bottom- Puff at top and bottom-Bell sleeve- Raglan sleeve- Kimono- Dolman- Bishop-Circular-Petal-Batwing-Magyar sleeve .Pocket types- Patch pocket with Flap- Decorative Patch pockets. - Cuff designs-Collars- Peter pan-cape-Sailor-Puritan-Chinese collar- Yokes- Yokes with Smocking- Yoke with Pleats- Yokes with Tucks- Round yoke -Square yoke- Midriff yoke-Skirts- Gathers – knife pleats- Box pleats-Tulip skirt- layered skirt- Circular skirt- Drawing Drapes and Folds- Drawing Frills- Flounces-Bias Cut Drape

- 3 Fashion figure Drawing-** Drawing of Hands and Arms: Draw Hands and Arms **Drawing of Legs and Feet:** Straight frontal legs-3/4 Turned leg-Profile Leg-Leg in motion- Feet drawing- Full front-3/4 turn- Profile foot- Fashion Figure Drawing:(front view) Eight head fashion figure- Ten head fashion figure-Fleshing of Fashion figure.

Note: Record Book should be maintained

Recommended Books:

1. Fashion Illustration-Figure Drawing-Paragon Books Ltd -UK
2. Patrick John Ireland-Fashion Design Drawing and Presentation- B T Bats ford Ltd- London
3. Kathryn Mckelvey and Janine Munslow-Fashion Design:

Specific Learning Outcomes

1. Fabric painting

- 1.1 Prepare colour wheel of primary, secondary and intermediate colours.
- 1.2 . - Prepare colour schemes of analogous, monochromatic, and complementary, double complementary and triad.
- 1.3 Select the cotton fabric for doing fabric painting
- 1.4 Select fabric painting brushes based on type of work
- 1.5 Select frame for fixing the fabric
- 1.6 Select suitable design for fabric painting.
- 1.7 Paint fabric samples with different techniques of fabric painting - Wash, Base coating, Shading, and High lighting. Brush strokes- C Stroke- S Stroke-Inverted C- Stroke Ribbon- Scroll- Tear drop. Full loading of Flat brush. Side loading of flat brush. Brush marks- variation created by the amount of paint on brush, angle of stroke, texture of the fabric, speed of stroke, pressure applied when making stroke. Dry brush strokes.

2. Dress Components Drawing

- 2.1 Draw neck line shapes

- 2.2 Draw different sleeves.
- 2.3 Draw different pocket types.
- 2.4 Draw collars
- 2.5 Draw yokes
- 2.6 Draw skirts.

3. Fashion Figure Drawing

- 3.1 Drawing of Hands
- 3.2 Drawing of Arms
- 3.3 Drawing of legs
- 3.4 Drawing of feet
- 3.5 Draw Eight head block/croqui figure
- 3.6 Draw Ten head block figure/croqui
- 3.7 Draw any standard proportionate fashion figure
- 3.8 Draw Fleshed fashion figure

State Board of Technical Education and Training ,Telangana

Semester End Examination Model Question paper

DGT II semester practical Examination

Corse Code:18GT-208P

Duration:3 hours

Course Name: Fashion Concepts and Embellishments Lab Practice

Max.Marks:40

Instructions to the Candidate:

(i)Answer any One of the following Questions.

1. a) Prepare a fabric painting sample with the given design using wet on wet technique.
b) Draw a standard fashion figure of size eight inches.
2. a) Make a colour wheel to show contrasting colours.
b) Draw fashion figure with 11 inches size.
3. a) Make a colour wheel with primary and secondary colours.
b) Show fleshing of fashion figure.
4. a) Prepare a fabric painting sample with any two techniques of your choice.
b) Show fleshing of standard fashion figure.
5. a) Make a fabric panting sample using the design given.
b) Draw three collars and two sleeves.
6. a) Draw a standard eight inches fashion figure.
b) Make a fabric painting sample.

Note: one question from painting and one question from drawing are compulsory

18GT-209 P, Needle Crafts Lab Practice

Course Title :	Needle Crafts Lab Practice	Course Code	18GT-209P
Semester	II	Course Group	: Core
Teaching Scheme in Periods(L:T:P)	7.5:00:37.5	Credits	: 1.5
Methodology	Lecture + Practical	Total Contact Hours :	:45Pds
CIE	60 Marks	SEE	40 Marks

Pre requisites

This course requires the knowledge of basic knowledge of needle work.

Course Content and Blue Print of Marks for SEE

Unit No	Unit name	Hours/ Periods	Marks for SEE			Marks weightage	% Weightage
			Design parameters	Workmanship	Neatness		
1	Hand Embroidery	15	10	25	05	40	100
2	Tatting motifs	15	10	25	05	40	100
3	Crochet motifs	15	10	25	05	40	100
	Total	45				40	100

Course Outcomes

Course Outcome		CL	Linked PO	Teaching Hours	Unit
CO1	Make hand embroidery samples	R/U/A	1,2,3,4	15	1
CO1	Identify and use tatting tools to make basic stitches and read instructions about the pattern. Make tatting motifs following instructions	R/U/A	1,2,3,4,	15	2
CO3	Identify crochet tools and thread and read instruction and abbreviations f crochet. Make motif with crochet stitches	U/A	1, 2,3,4,	15	3

Course Contents

- 1. Hand Embroidery: Chain stitch – Twisted chain stitch – Open chain stitch - Rosette chain stitch - Stem stitch – Fish bone stitch – Feather stitch – French Knots.**
- 2. Tatting Basics and Motifs :**
Tatting tools- tatting threads- tatting stitches- single stitch- double stitch- picot – picot joining – reversing of work. Make single colour tatting motifs of radius 2 to 3 cm.
- 3. Crochet Basics and Motifs:** Crochet needles selection- thread selection – making of chain stitch, single crochet stitch- double crochet stitch- triple crochet stitch half double crochet and slip stitch. sample preparation.

Recommended Books

1. A Complete Crochet Course- Muriel Kent-David & Charles- London.
2. DMC Tatting Book
3. The Blandford Book of Traditional Handicrafts- Blandford press

Specific Learning Outcomes

1. Hand Embroidery

1.1 Make samples with the hand embroidery stitches using suitable designs and colour combination.

2. Tatting Basics and Motifs :

2.1 Identify and use the tatting shuttle.

2.2 Select the correct thread size based on the requirement for the work planned.

2.3 Wind the thread into shuttle.

2.4 Practice making double stitch with shuttle.

2.5 Practice making picot with shuttle.

2.6 Practice joining picots.

2.7 Practice reversing work.

2.8 Make two motifs of single colours of radius 2 to 3 cm.

3. Crochet Basics and Motifs

3.1 Identify and use needles for crochet work.

3.2 Identify and select thread for crochet work.

3.3 Practice the following stitches- single crochet- double crochet- triple crochet.

3.4 Prepare crochet motif with above stitches.

State Board of Technical Education and Training, Telangana

Semester End Examination Model Question paper

DGT II Semester Practical Examination

Course Code: 18GT -209 P

Duration: 3 hours

Course Name: Needle Crafts Lab Practice

Max. Marks: 40

Instructions to the Candidate:

(i) Answer any One of the following Questions.

It write the procedure to make the crafts and the tools used.

1. Make a crochet motif of 3 cm radius using double crochet stitches.
2. Make a tatting motif with the instructions given.
3. Make hand embroidery sample with the given stitches.

INFORMATION TECHNOLOGY LAB PRACTICE

Course Title : INFORMATION TECHNOLOGY LAB PRACTICE	Course Code : 18GT-210P
Semester : II	Course Group : Core
Teaching Scheme in Hrs (L:T:P) : 0:1:2	Credits : 3
Type of course : Tutorial + Practical	Total Contact Hours : 37.5Hrs/45Pds
CIE : 60 Marks	SEE : 40 Marks

Prerequisites

Knowledge of Computer basics and DOS

Course Outcome

On successful completion of the course, the students will be able to attain below Course Outcome (CO):

Course Outcome		CL	Linked PO	Practical hrs
CO1	Demonstrate skills using spreadsheet software	A	1,2,3,4,8,9,10	15
CO2	Demonstrate skills using presentation software	A	1,2,3,4,8,9,10	15
CO3	Demonstrate skills using database software	A	1,2,3,4,8,9,10	15
			Total Sessions	45

Legends: R = Remember U= Understand; A= Apply and above levels (Bloom's revised taxonomy)

Course Content

Spread Sheet

1. Open MS-Excel and identify the components on the screen
2. Create a Worksheet in MS-Excel and save it in .xls or .xlsx format
3. Inserting column and row in Excel
4. Creation of new worksheet in the existing Excel Book file
5. Generate a Chart using the data in Excel-worksheet
6. Automate calculations in a worksheet using formula
7. Sort and filter data in a worksheet
8. Protecting a worksheet, working with multiple sheets
- 9.

Presentation Software

10. Create a simple Power point presentation for a small topic and saving in .ppt or pptx format
11. Inserting a new slide in the existing PowerPoint file
12. Inserting chart or image in a PowerPoint slide
13. Exercise with animation and sound features in PowerPoint
14. Exercise with Rehearse Timings feature in PowerPoint
15. Exercise in printing the PowerPoint file in (a) Slides (b) Handouts

Database Management System

16. Create a table for given data and save in .mdb or .accdb format
17. Add, Delete and rename fields
18. Use the Primary key field
19. Enter and edit data
20. Use Relationships option
21. Create forms
22. Modify and save forms
23. Create and use queries
24. Sort data
25. Display data
26. Create and print reports

Resources:

1. Computer Fundamentals Concepts, Systems, Application, D.P.Nagapal, S.Chand Publication, RP-2014, ISBN: 81-219-2388-3
2. <http://www.tutorialsforopenoffice.org/>
3. <http://www.libreoffice.org/get-help/documentation/>

Composition of Educational Components:

Questions for CIE and SEE will be designed to evaluate the various educational components (Bloom’s taxonomy) such as:

Sl. No.	Bloom’s Category	%
1	Remembrance	20
2	Understanding	20
3	Application	60

**Mapping Course Outcomes with Program Outcomes:
(Course Outcome linkage to Cognitive Level)**

Course Outcome		Experiment Linked	Linked PO	CL	Practical Sessions
CO1	Demonstrate skills using spreadsheet software	1,2,3,4,5,6,7,8	1,2,3,4,8,9,10	A	15
CO2	Demonstrate skills using presentation software	9,10,11,12,13,14	1,2,3,4,8,9,10	A	15
CO3	Demonstrate skills using database software	15,16,17,18,19,20,21,22,23,24,25	1,2,3,4,8,9,10	A	15

U-Understanding; A-application/ Analysis; App-Application

Course-PO Attainment Matrix

Level 3- Highly Addressed, Level 2-Moderately Addressed, Level 1-Low Addressed.

Course Delivery

The course will be delivered through tutorial of one hour and one & half hours of hands on practice per week.

Suggested Student Activities:

1. Create a spreadsheet for the class
2. Create power point presentation for a course
3. Create a database for the class

Format for Student Activity Assessment

Internal Assesment

Activity	Marks
Writing the experiment, record evaluation	30
Execution of the given experiment	20
Viva-voce	10
Total	60

Model Question Bank

Course Title:IT LAB PRACTICE	Course Code: 18M-210P
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1. Using Spreadsheet Application, create a worksheet with five columns. Enter ten records and find the sum of all columns using auto sum feature.
2. You have a monthly income of Rs.10000. Your monthly expenditures are Rent- Rs 3000, Food- Rs. 1500, Electricity- Rs.100, Phone- Rs. 150, and Cable TV-Rs. 200. Prepare a worksheet with the Monthly Income, the Monthly Expenditures listed and summed, monthly savings amount (what's left over each month) calculated, and the amount saved per day (assuming 30 days in a month). Use Spreadsheet Application.
3. Using Spreadsheet Application, create a worksheet containing the pay details (containing Basic pay, DA, HRA ,Other Allowance , Deductions- PF, PT, Insurance, Gross and Net salary) of the employees using formulas.
4. Using Spreadsheet Application, create a Simple Bar Chart to highlight the results of your institute for three years.
5. Using Spreadsheet Application, create a Pie Chart for a sample data and give legends.
6. Using presentation tool, Create a simple Presentation consisting of 4-5 slides about Input and Output Devices.
7. Create a presentation about a book containing Title, Author, Publisher and Contents.
8. Create an automated (timings & animation) Presentation with five slides about different Models of Computers. Use Presentation tool