



**GURUDEV**

**RABINDRANATH TAGORE**

**ARTS & SCIENCE COLLEGE**

# **CERTIFICATE COURSE IN ADVERTISING**

## **GASCB AE01**

**DEPARTMENT OF ENGLISH**

**GURUDEV ARTS & SCIENCE COLLEGE**

## **CERTIFICATE COURSE IN ADVERTISING**

**Course Title : Advertising**

**Course Code : GASCBAE01**

### **ABOUT THE COURSE**

Advertising plays an important role in present era of modern living. Advertising has become a necessity, be it the producer, the traders, or the customer. Advertising looks for creative ideas and catchy contents to attract their customers and build brand values. By the end of this course, students will be familiar not only with a large body of advertising knowledge, but they will be able to apply this information to create and evaluate effective advertising strategies and tactics. Advertising course helps the students to know more about the production stages and how the creative crafting works in the field of modern advertising.

### **SYLLABUS:**

#### **Overview:**

Advertising explores the art of influencing human purchase decisions. So each advertisement should be crafted with an infotainment element. From the lessons students will study the crafting stages in advertising.

#### **Course Objectives:**

- ✓ study the art and craft of creating advertisements for various media
- ✓ understanding of methods in production
- ✓ understanding of how an advertising agency operates
- ✓ Ideas on creative content writing
- ✓ PSA (Public Service Advertisement) production

# **CERTIFICATE COURSE IN ADVERTISING**

## **Module I**

- 1.1** Advertising- Introduction, Definition
- 1.2** Functions and elements of advertisement
- 1.3** Different Types of Advertisement
- 1.4** Popular Ads

## **Module II**

- 2.1** Production Stages in Advertisement
- 2.2** Pre-production
- 2.3** Production
- 2.4** Post- Production

(Script writing for an advertisement)

## **Module III**

- 3.1** Content Writing (Creative writing, framing of content etc.)
- 3.2** Ethics in Advertising
- 3.3** PSA production (practical exam)

### **Eligibility:**

**BA English Final Year Students of Gurudev Arts & Science College can join**

### **Intake:**

**Limited to maximum of 40 students**

## **CERTIFICATE COURSE IN ADVERTISING**

### **EVALUATION AND GRADING :**

Active participation and individual preparation outside the class are important for the successful completion of the course. The student will have to submit two practical works and pass a written examination. Written examination shall be for 20 marks and the practical works shall be for 30 mark each. So total 100 marks. The duration of the written exam will be for two hours, script writing will be for two hours and 24 hours for PSA production and scripting.

**Certificates will be issued to all those who successfully complete the course.**

**Mode of Learning** : Online Mode- Google Meet

**Course Fee** : 500/-

**Faculty** : George K. J  
Managing Director & Creative Head  
Water Creative Studio Pvt Ltd, Kozhikode

### **NAME AND DETAILS OF COURSE COORDINATOR**

**Ranjith M Cheriyan**  
Assistant Professor  
Gurudev Arts & Science College  
Mathil  
Payyanur  
Mobile: +91- 9495376582

**GURUDEV ARTS & SCIENCE COLLEGE, MATHIL**

**ENGLISH DEPARTMENT ADD ON COURSE EXAMINATION, 2021**

**GASCBA01- ADVERTISING**

Time: 2 hrs

Marks: 30

- 1) JWT Water Thompson Associates
- 2) Copy writing
- 3) ASCI
- 4) Define advertising
- 5) Brand
- 6) ROI advertising

(Mark 3 X 6 =18)

- 7) Critique the key ethical issues that challenge the practice of advertising.
- 8) Prepare a print advertisement issued by the State Government to enhance awareness about health and sanitation among the public, in the aftermath of the floods in Kerala.
- 9) Discuss the role and functions of advertising.

(Mark 4 X 3 =12)

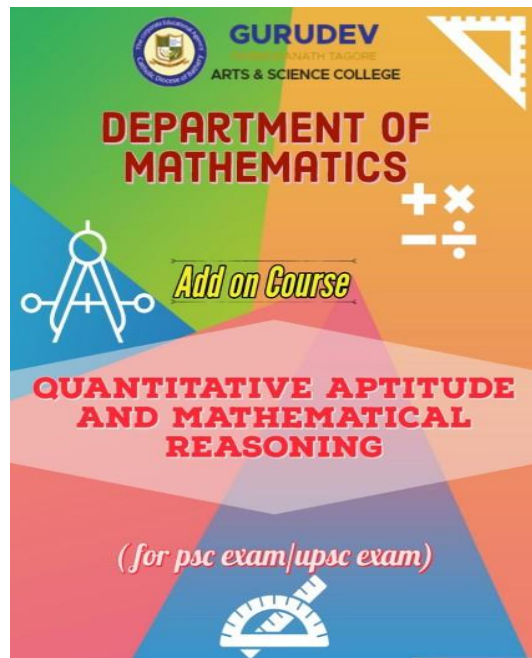
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**ENGLISH DEPARTMENT**  
**ADD ON COURSE**  
**ADVERTISING – GASCBA01**

Name	Batch	Attendance	
Shreevarthy mp,	First Year	A	A
Devika Sathiajith	First Year	P	P
Ripina pv	Third Year	A	P
Tressa James	First Year	A	P
Kavya pv	First Year	P	P
ANAMIKA AJAY	First Year	P	A
Anulakshmi prasanth	First Year	P	P
Nikhila T V	First Year	P	P
Sayana cv	First Year	P	A
HARSHA A	First Year	P	P
Bhagyalakshmi v v	First Year	A	A
Medha T P	First Year	P	P
Vismaya M	First Year	P	A
MEGHA.P.P.	First Year	P	P
Akash.kv	First Year	A	A
NAYANA. K	First Year	P	P
Saniya p	First Year	P	A
Bhagath vp	First Year	A	A
YADU KRISHNAN P V	First Year	A	A
Jijina T V	First Year	A	P
ABHIJITH M V	First Year	P	A
ADHITH KUMAR	First Year	A	A
Anusree T K	PG First Year	P	P
Revathi P V	PG First Year	P	P
Abhishek pv	BA First Year	P	P
VISHNU GOPAL K. V	BA First Year	P	A
Arjun venu	BA First Year	P	A
Pranav KC	BA First Year	A	A

A K Adarsh	PG First Year	P	P
Ani C	PG First Year	P	P
Shilpa.B	PG First Year	P	P
Vaishnavi. C. Ramachandran	PG First Year	P	P
Surya.p	PG First Year	P	P
Abhijna.PV	PG First Year	P	P
Saira Banu	PG First Year	P	A
VS Haripriya	PG First Year	P	A
Shreya S Babu	PG First Year	P	P
Anugrah	BA First Year	P	P
Drisy K	PG First Year	P	P
Anagha B Nair	PG First Year	A	P
Haripriya. M	PG First Year	P	P
DRISHYA P V	PG First Year	P	A
Meenakshi K V	PG First Year	P	P
Shibin	BA First Year	P	P

# CERTIFICATE COURSE IN MATHEMATICS



## ABOUT THE COURSE

In this course we provide fundamental idea about Mathematics. This is helpful for PSC students.

## COURSE OBJECTIVES

- Inductive and deductive reasoning
- Encourage to improve the quality in Mathematics

## COURSE OUTCOME

- Understand the foundations of Mathematics
- Be able to perform basic computations in higher Mathematics
- Develop and maintain problem solving skills
- Use Mathematical ideas to model real – world problems

## COURSE SYLLABUS

### MODULE 1

Mathematical reasoning

Blood relation, coding and decoding, puzzle test, alphabet test, number ranking test, direction test.

## MODULE 2

### Arithmetic

Time and distance, problems on train ,time and work, calendar ,basic arithmetic operations, LCM and HCF

## MODULE 3

### Mathematical ability

Percentage, problems on age, ratio and proportion, simple interest, compound interest , profit and loss, problems on train, speed and distance

## ELIGIBILITY

Students of Gurudev arts and Science College are eligible to join this course.

## EVALUATION

The successful completion of this add on course, a student must get minimum pass mark of 16.The maximum duration of exam 3 hours and maximum marks 40.The exam based on subjective and objective questions.

MARK PERCENTAGE	GRADE	PERFORMANCE
90 and above	A	Outstanding
80-89	B	Excellent
70-79	C	Very good
60-69	D	Good
50-59	E	Satisfactory
<50	F	Needs to improve

## PATTERN OF QUESTION PAPER

PART A : Short Answer (5 questions  $\times$  1 mark each=5)

- Answer any 4 questions(4 questions  $\times$  1 mark each=4)

PART B : Short Essay (11questions  $\times$  2mark each=22)

- Answer any 7 questions(7 questions  $\times$  2 mark each=1

PART C : Essay (7 questions $\times$  3 mark each=21)

- Answer any 4 questions(4 questions $\times$  3mark each=12)

PART D : Long Essay (4 questions  $\times$  5 mark each=20)

- Answer any 2 questions (2 questions $\times$  5 mark each=10)

## MODE OF LEARNING

By using Google Meet

## COURSE FEE

Rs 300/- for 30 classes

## REFERENCE BOOKS

Quantitative aptitude for competitive examinations.

R.S Agarwal Sulthan Chand 7<sup>th</sup> edition.

## HEAD OF THE DEPARTMENT

M.MADHUSOODHANAN

ASSISTANT PROFESSOR

GURUDEV ARTS AND SCIENCE COLLEGE MATHIL.

Email [id: madhu@gasc.ac.in](mailto:madhu@gasc.ac.in)

Mob no: 9961544486

## COURSE COORDINATOR

SHAJNA GOVINDAN

ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS

GURUDEV ARTS AND SCIENCE COLLEGE MATHIL.

Email [id: shajna@gasc.ac.in](mailto:shajna@gasc.ac.in)

Mob no: 7510561600

## Number of participants

SI NO	REG.NO	NAME
01	251	ADWAITH N
02	252	ASHWATHI P K
03	253	JOSNA JOLLY
04	254	KEERTHANA P K
05	255	SNEHA M
06	256	SUDHEESHNA N P
07	257	VAISHNAV
08	258	ADISHA P
09	259	AKSHAY SAJI
10	260	ANJANA PRASANTH
11	261	SHIKHA
12	262	RANJU R NAIR
13	263	SNEHA MOHAN M
14	264	SREELAKSHMI T
15	GD 19CMSR06	MANOMI
16	GD 19CMSR09	SREEHITHA
17	GD 19CMSR12	GAYATHRI
18	GD 18CMSR02	ASHWATHI
19	GD 18CMSR08	AKSHAY P V

## ATTENDANCE

NAME	26/02/21	27/02/21	6/03/21	9/03/21	15/03/21	16/03/21	19/03/21	22/03/21	26/03/21	29/03/21	18/04/21	22/04/21
ADWAITH N	P	P	P	P	P	P	P	P	P	P	P	P
ASHWATHI P K	P	P	P	P	P	P	P	P	P	P	P	A
JOSNA JOLLY	A	P	P	P	A	P	P	P	P	P	P	P
KEERTHANA P K	P	A	P	P	P	P	P	P	P	p	p	P
SNEHA M	P	P	P	P	P	P	P	P	P	P	p	p
SUDHEESHNA N P	P	P	P	P	P	P	P	P	p	p	p	P
VAISHNAV	P	P	P	P	P	P	P	P	P	P	p	p
ADISHA P	P	P	P	P	P	P	P	P	p	p	p	P
AKSHAY SAJI	P	P	P	P	P	P	P	P	P	P	p	p
ANJANA PRASANTH	P	P	P	P	P	P	P	P	P	p	p	p
SHIKHA	P	P	P	P	P	P	P	P	P	P	p	p
RANJU R NAIR	P	P	P	P	P	P	P	P	P	p	p	P
SNEHA MOHAN M	P	P	P	P	P	P	P	P	P	P	p	p
SREELAKSHMI T	P	P	P	P	P	P	P	P	P	p	p	P
MANOMI	P	P	P	P	P	P	P		P	P	p	p
SREEHITHA	P	P	P	P	P	P	P	P	P	P	p	P
GAYATHRI	P	P	P	P	A	P	P	P	P	P	P	P
ASHWATHI	P	P	A	P	P	P	P	P	P	P	P	P
AKSHAY P V	P	P	P	P	P	p	p	p	P	p	P	p



**GURUDEV ARTS AND SCIENCE COLLEGE MATHIL**

**QUANTITATIVE APTITUDE AND MATHEMATICAL REASONING(GASCMATH20)**

**ADD ON COURSE,THEORY EXAMINATION,MAY 2021**

**DEPARTMENT OF MATHEMATICS**

**TIME:2 HOURS**

**MAX.MARK:30**

1.How many 6's are there in the following number series which are  
either preceded by 4 or followed by 7?

312964764677297644667

a) One      b) two      c) three      d) four      (2)

2.Arrange the given words in alphabetical order and pick the one that comes last.

a) Abandon      b) Actuate      c) Accumulate      d) Acquit      (2)

3. Find the HCF of 1134 and 1215 by division method.      (3)

4. Rajeev's age after 15 years will be 5 times his age 5 years back. What is  
the present age of Rajeev?      (4)

5. If  $a:b = 5:9$  and  $b:c = 4:7$ . Find  $a:b:c$ .      (4)

6. What was the day of the week on 4<sup>th</sup> June 2002?      (5)

7.Worker A takes 8 hours to do a job. Worker B takes 10 hours to do the same Job.  
How long should it take both A and B working together but independently, To  
do the same job?      (5)

8. Calculate the amount and compound interest on

a) RS.10800 for 3 years at  $12\frac{1}{2}\%$  per annum compounded annually.

b) RS.8000 for 1 year at 9% per annum compounded half yearly.      (5)

CERTIFICATE COURSE IN MOVEMENT SCIENCE



**GURUDEV ARTS AND SCIENCE COLLEGE**

DEPARTMENT OF PHYSICS

Introduce



Add on course

**MOVEMENT SCIENCE**

[Inter disciplinary subjects]

Physics

Biology

Sports



## **CERTIFICATE COURSE IN MOVEMENT SCIENCE**

### **ABOUT THE COURSE**

In this certificate course, theoretical basis of fundamental human movement science subjects such as Anatomy, Physiology, Human Biomechanics, Kinesiology and kalaripayattu are learnt.

### **COURSE OBJECTIVE**

This course will familiarize the students on the kinesiology aspects of exercise and understand the basic structure of human body, mainly on the basis of principles of physics.

### **LEARNING OUT COME**

By the end of the course the student will be able to:

- At to understand the basic concept of fitness training and their effect on the body
- To study the principles of training related to martial art (Kalaripayattu)

### **COURSE SYLLABUS**

#### **MODULE 1**

Basic Concepts in Biomechanics:

Kinematics and Kinetics : a) Types of Motion b) Location of Motion c) Direction of Motion Version-2.0.0 20 d) Magnitude of Motion e) Definition of Forces f) Force of Gravity g) Reaction forces h) Equilibrium i) Objects in Motion j) Force of friction k) Concurrent force systems l) Parallel force systems m) Work n) Moment arm of force o) Force components p) Equilibrium of levers.

## **MODULE 2**

### **Physiology of Exercise**

A. Effects of exercise and physical activities on 1) O<sub>2</sub> transport 2) Muscle strength/power/endurance 3) Basal Metabolic Rate / Respiratory Quotient 4) Hormonal and metabolic effect 5) Cardiovascular system 6) Respiratory system 7) Body fluids and electrolyte

## **MODULE 3**

### **Basic theory of kalarippayattu**

- Preliminary exercise of leg movements
- Straight right , Straight left, Outward right, Outward left, Inward right, Inward left, Right towards left, Left towards right, Swing right pivoting, Swing left pivoting, Straight right and sit, Straight left and sit, Straight right ,sit, spring, turn and repeat, Straight left, sit, spring, turn and repeat.
- Kinds of body conditioning exercise (Meithary) of kalarippayattu and the use of muscle and joints to their maximum potentials.

## **ELIGIBILITY**

Any student of Gurudev arts science college is eligible to join, preference will be given to final year students.

## **INTAKE**

Each batch will be limited to a maximum 40 students

## EVALUATION AND GRADING

Active participation and individual preparation are important for successful completion of the course .The student will have to submit assignments and pass written final examination.

Assignment shall be for 10 marks each, the written examination shall be for 50 marks and practical examination shall be for 30 marks. So total 100 marks .The duration of the written exam will be for two hours and it will have objective and subjective questions. The duration of the practical exam will be for 30 minutes.

### GRADING SCALE OF THE COURSE

MARK	GRADE	PERFORMANCE
90 and above	A	Outstanding
80-89	B	Excellent
70-79	C	Very Good
60-69	D	Good
50-59	E	Satisfactory
< 50	F	Needs to improve

Certificate will be issued to all those who successfully complete the course.

## MODE OF LEARNING

Blended mode

## COURSE FEE

Rs. 750/- (However due to the COVID pandemic the fees has been completely waived for the academic year 2020-21.)

## **REFERENCE BOOKS /MATERIALS**

1. Joint Structure and Function (2012). Japee Brothers Medical Publishers. New Delhi.
2. Shaver, L(1981). Essentials of Exercise physiology. New Delhi. Subject publications.
3. Vincent, T. Murche.(2007). Elementary physiology. Hyderabad: sports publication.
4. William , D. MC ARADLE. (1996).Exercise physiology, Energy,Nutrition and Human performance. Philadelphia: Lippincott Williams and Wilkins Company.
5. Sreedharan Nair T Chirakkal (2016). The complete Guide to Kerala's Martial Art, Westland books Chennai.
6. Prasad S R D (2012) Meipayattu, Kerala Folklore Academy

## **COURSE COORDINATOR**

LINUKUMAR.M.C

ASSISTANT PROFESSOR, DEPARTMENT PHYSICS

Gurudev Arts and Science College, Mathil

Email id: linukumar @ gasc.an.in

Mobile: 9447685099

# **GURUDEV ARTS AND SCIENCE COLLEGE**

## **Department of physics**

### **ADD ON COURSE (2020-2021)**

#### **GD20PHY-01-Biomechanics**

##### **SECTION A (1 MARK EACH)**

1. Define Force.
2. Name the types of motion.
3. Name the type of motion seen in the human body.
4. Name 1 movement that happens along the transverse plane in the human body?
5. Name the mathematical system adopted to describe human movement.

##### **SECTION B (3 MARKS EACH)**

6. Describe movements in the sagittal plane.
7. Describe the composition of bones.
8. What is a synovial joint?
9. Which are the various axes in the body?
10. Explain why the concept of axes and planes are necessary in the body.

##### **SECTION C (5 MARKS EACH)**

11. Explain how ground reaction forces come into play in normal movement.
12. Describe types of levers and lever systems in the body?

## **ADD ON COURSE (Physics Department)**

**Students details 2020-2021**

**Course name: MOVEMENT SCIENCE**

<b>SL NO.</b>	<b>ROLL No.</b>	<b>NAME</b>	<b>Attendance percentage</b>	
1	101	ANUSREE P	99	
2	102	ARJUN P NAMBIAR	92	
3	103	ASHIN BALAKRISHNAN	97	
4	104	JISHNU K V	96	
5	105	JITHIN T P	92	
6	106	PRITHVI JAYARAMAN A V	91	
7	107	SANGEETH K	95	
8	108	SREESHMA P V	94	
9	109	SWATHI PP	96	
10	110	VISHNU T	97	
11	111	ANAMIKA K	100	
12	112	ANJANA K	98	
13	113	ASWIN MOHAN M P	96	
14	114	BHAGYALAXMI T M	98	
15	115	DEVIKA PP	99	
16	116	JIBINA. P	97	
17	117	JISHNU RAVEENDRAN KV	90	
18	118	JOMINA JOY	95	
19	119	NAMITHA K	95	
20	120	NAVITHA.T.P	98	
21	121	PRANAV MOHAN	90	
22	122	SANGEERTH T V	93	
23	123	SONA P	96	

SL NO.	REG. No.	NAME	
24	GD19CPHR01	ARSHITHA VIJAYAN	90
25	GD19CPHR02	ARUNA. T. M	92
26	GD19CPHR03	LAVANYA. A	93
27	GD19CPHR06	RUDAINA. K	94
28	GD19CPHR07	SALINI	90
29	GD19CPHR08	SNEHA. P	96
30	GD19CPHR09	ABHINAND CHANDRAN. K. U	91
31	GD19CPHR11	ANIRUDH KRISHNAN	93
32	GD19CPHR12	SAMADEV. A	94
33	GD19CPHR13	SREEHARI. P. M	95
34	GD19CPHR14	SREEKESH. M	92
35	GD19CPHR15	ABHISHA. P	90
36	GD19CPHR16	AMRUTHA. P	94
37	GD19CPHR17	ANAGHA. K	95
38	GD19CPHR18	ANJALI. C	96
39	GD19CPHR19	ASHA. T. S	92
40	GD19CPHR20	ATHULYA. K	94
41	GD19CPHR21	JINSHA. K. V	96
42	GD19CPHR22	KAVYA DINESH. A. M	96
43	GD19CPHR23	NIVEDHYA K GUNAPAL	100
44	GD19CPHR24	VISMAYA. A	92
45	GD19CPHR26	ABHI S KUMAR	93
46	GD19CPHR27	AMALRAJ. P	94
47	GD19CPHR28	ANAND. P. P	95
48	GD19CPHR29	KESAV. H. B	99
49	GD19CPHR30	MUHAMMED JOUHER K	95
50	GD19CPHR31	SANDESH. P. V	93

SL NO.	REG. No.	NAME			
51	GD18CPHR16	SHIDHIN. K. P		98	
52	GD18CPHR18	SREENATH. P		96	
53	GD18CPHR19	SUBIN. V		94	
54	GD18CPHR33	ARAVIND NARAYANAN		93	
55	GD18CPHR36	JITHIN SABU		97	
56	GD19CMIR14	MANUSANKAR.K.V		93	
57	GD19CMIR32	AKASH EDACHIRA		95	
58	GD18CBCR03	ATHIRA RAMDAS		98	

COURSE CO-ORDINATOR

LINUKUMAR.M.C

26/04/2021.

## Details of ADD ON Course

### 1.Name of the add on course

Movement Science

### 2.Course code

GD20PHY

### 3.Year of offering

2020-2021

### 4. Name of the person taking class

#### 1.Mr.Prasad Gurukkal

Chief instructor

Sreerag Bharat Kalari

Valapattanam, Kannur

#### 2.Dr.Rajath Raveendran

Calicut Medical college

Calicut

#### 3.Sayanu Nazir

Chief physician

Physio Therapy clinic

Kannur

#### 4.Linukumar. M. C

Assistant professor

Department of physics

Gurudev college

### Duration

3 month

### Number of students participated

55

### Number of students passed

Course is continuing, completed on June 30

ADD ON COURSE

# REPORT

## MOVEMENT SCIENCE

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### Introduction

Movement science concerned the science behind sport and exercise. You'll learn how to optimize athletic performance, prevent injuries, improve wellbeing and help athletes with recovery.

Sport and Exercise Science is made up of four core disciplines: Physiology (the branch of biology that deals with how the body functions), Biomechanics (the study of movement of the body and the forces that underpin movement), martial art (Kalarippayattu, Ancient martial art of the world) and physics.

This course will give in-depth understanding of the application of these sciences to sport and exercise, as well as give you the opportunity to study other related topics including nutrition and health.

Our enthusiastic tutors and practical sessions provide lively interactive ways to learn, ensuring you will have the best possible experience. We emphasize both theoretical and practical understanding across the range of disciplines'

ensuring that our students have subject knowledge, and an ability to apply knowledge appropriately along with employability skills to ensure they become quality graduates in a strong position to build careers in the sports & exercise industry or beyond.

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# CERTIFICATE OF COMPLETION

This is to certify that Mrs./Mr .  
successfully completed this course with own certificate for  
"Movement Science"

Principal



Course Coordinator

Date:

**CERTIFICATE COURSE IN  
MUSHROOM CULTIVATION**



**DEPARTMENT OF MICROBIOLOGY  
GURUDEV ARTS AND SCIENCE COLLEGE, MATHIL**

**COURSE TITLE** : **Mushroom cultivation**

**COURSE CODE** : **GASC MCB 01**

**COURSE OVERVIEW** :

This is an excellent introductory course to understand the cultivation of mushrooms. The course introduces methods of growing edible mushrooms, including culture maintenance, basic mushroom substrate preparation, composting, spawn generation techniques, inoculation methods, harvesting, and pests and pest management of mushrooms.

**AIM OF THE COURSE**

- Enable the students to identify edible and poisonous mushrooms
- Provide hands on training for the preparation of bed for mushroom cultivation and spawn production.
- Give the students exposure to the experiences of experts and functioning mushroom farms.
- Help the students to learn a means of self employment and income generation

**COURSE OUTCOME:**

By successfully completing the course, students will be able to:

- Identify edible types of mushroom.
- Gain the knowledge of cultivation of different types of edible mushrooms and spawn production.
- Manage the diseases and pests of mushrooms.
- Learn a means of self-employment and income generation.

**COURSE DETAILS**

- i. Practical
- ii. Theory session
- iii. Discussions

**COURSE SYLLABUS:**

**Module 1:**

Introduction to mushrooms - Mushrooms -Taxonomical rank -History and Scope of mushroom cultivation - Edible and Poisonous Mushrooms-Vegetative characters. Common edible mushrooms

**Module 2:**

Principles of mushroom cultivation- Structure and construction of mushroom house. Sterilization of substrates. Spawn production - culture media preparation- production of pure culture, mother spawn, and multiplication of spawn. Composting technology, mushroom bed preparation. Spawning, spawn running, harvesting. Cultivation of oyster and paddy straw mushroom. Problems in cultivation - diseases, pests and nematodes, weed moulds and their management strategies.

**Module 4:**

Health benefits of mushrooms- Nutritional and medicinal values of mushrooms. Therapeutic aspects- antitumor effect

**Module 5:**

Post-harvest technology- Preservation of mushrooms - freezing, dry freezing, drying, canning, quality assurance and entrepreneurship. Value added products of mushrooms.

**Module 6:**

Training/ Workshop/ Field visit. Sterilization and sanitation of mushroom house, instruments and substrates Preparation of mother culture, media preparation, inoculation, incubation and spawn production Cultivation of oyster mushroom using paddy straw/agricultural wastes

**REFERENCE:**

- 1) Text book of fungi – Pandey.B.P
- 2) Mushroom- the art of cultivation – Harander Singh
- 3) Elements of biotechnology – Gupta.P.K

**ELIGIBILITY:**

- Final year (life science) students of Gurudev Arts and Science College.

**INTAKE:**

- Maximum of 40 students.

**EVALUATION AND GRADING**

- Active participation and individual preparation in the class are important for the successful completion of the course. Grades will be determined by the results of written assignments (10%), a comprehensive written final examination (50%), and class participation and practical (40%).
- [A = 93-100 total points; A - = 90-92; B+ = 87-89; B = 83-86; B- = 80-82; C+ = 77-79; C = 73- 76; C- = 70-72; D+ = 67-69; D = 60-66; F = 59 or below]

**LEARNING METHOD**

- Online and offline

**COURSE FEE:**

- 500/-

**COURSE CO-ORDINATOR:**

- Aneesh K  
Assistant Professor  
Dept. of Microbiology  
Gurudev Arts and Science College  
Ph: 9496240605

Name of Add on course: **Mushroom cultivation**

Class mode: **Online through Google meet and offline mode**

Duration of course: **3 months (Total hours: 25)**

**Two hours exam has been conducted at the end of course for issuing the certificate**

Course code : **GASC MCB 01**

Faculty: **Mrs Prajiana p sunil**

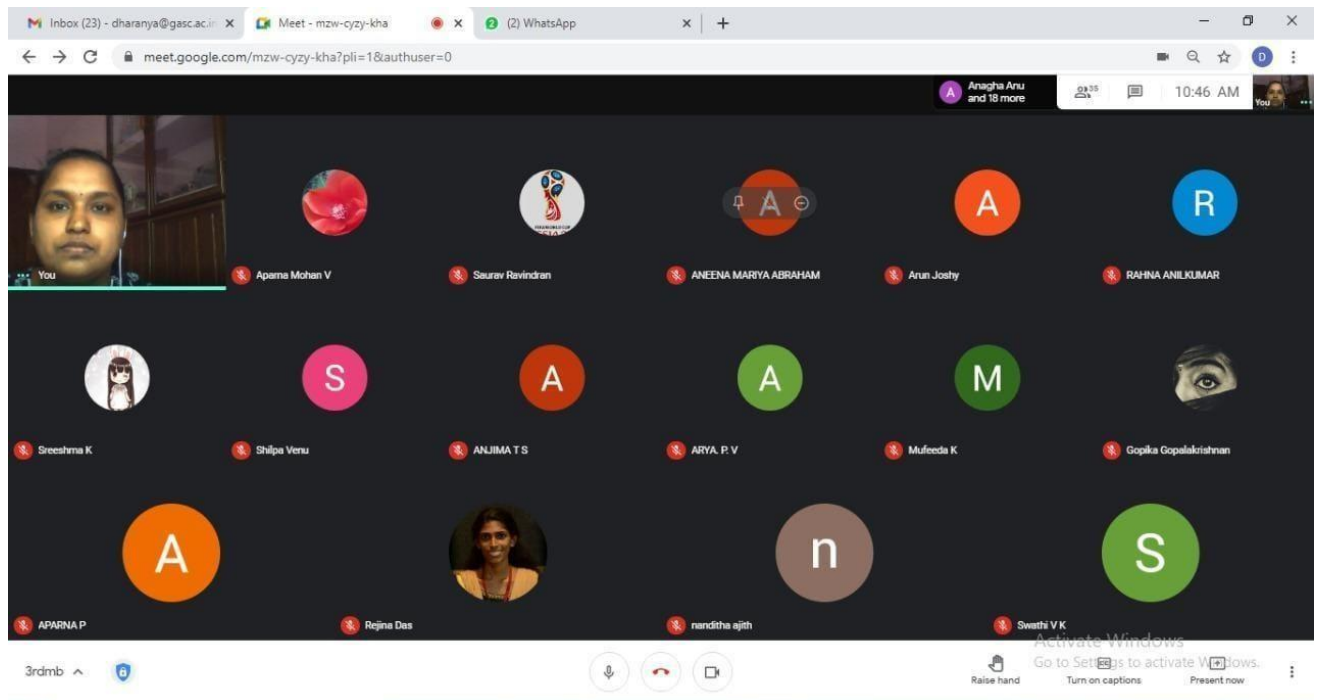
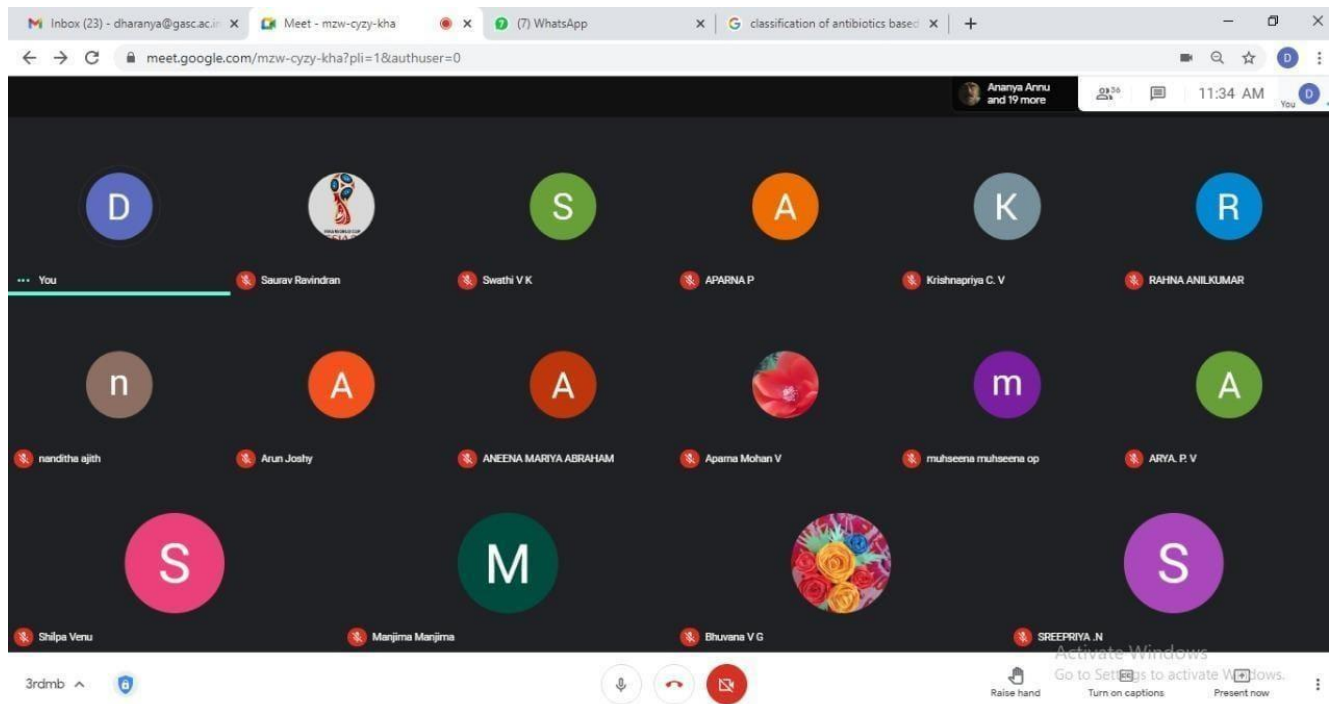
**Assistant professor**

**SN College, Kannur**

**Total number of students registered (2020-2021): 37**

SL. NO:	REG. NO:	NAME OF THE STUDENT
1	GD18CMIR01	AKHILA P NAIR
2	GD18CMIR02	ANAGHA K
3	GD18CMIR03	ANANYA A V
4	GD18CMIR04	ANEENA MARIYA ABRAHAM
5	GD18CMIR05	ANJIMA T S
6	GD18CMIR06	ASWATHI A P
7	GD18CMIR07	ASWATHI KRISHNAN P V
8	GD18CMIR08	ASWATHI MAHESH
9	GD18CMIR09	ASWATHI R NAMBIAR
10	GD18CMIR10	BHUVANA V G
11	GD18CMIR11	GOPIKA GOPALAKRISHNAN

12	GD18CMIR12	JILNASREE N P
13	GD18CMIR13	KRISHNAPRIYA C V
14	GD18CMIR14	MANJIMA P
15	GD18CMIR15	MUHSINA O P
16	GD18CMIR16	NANDITHA AJITH
17	GD18CMIR17	POOJA SURENDRAN
18	GD18CMIR18	RESHMI PV
19	GD18CMIR19	SHILPAVENU
20	GD18CMIR20	SREEPRIYA N
21	GD18CMIR22	SWATHI V K
22	GD18CMIR23	VISMAYA P V
23	GD18CMIR24	ATHUL P
24	GD18CMIR25	SOURAV RAVEENDRAN M R
25	GD18CMIR26	SREEHARI C
26	GD18CMIR28	APARNA MOHAN
27	GD18CMIR29	APARNA P
28	GD18CMIR30	ARYA P V
29	GD18CMIR31	MUFEEDA K
30	GD18CMIR33	RAHNA ANILKUMAR
31	GD18CMIR34	RAJNA C
32	GD18CMIR35	SAHLA K
33	GD18CMIR36	SEERSHA
34	GD18CMIR37	SHRADHA SURESH
35	GD18CMIR38	SREESHMA K
36	GD18CMIR39	ARUN JOSH Y
37	GD18CMIR40	MUHAMMED FARHAN P P



# GURUDEV ARTS AND SCIENCE COLLEGE, MATHIL

ADD ON COURSE COMPLETION EXAMINATION APRIL -2021

MICROBIOLOGY (CORE)

GASC MCB 01: MUSHROOM CULTIVATION

Time: 2Hrs

Max. Marks: 25

## **SECTION -A**

*Answer all questions. Each question carries one mark*

1. Write the name of an edible mushroom.....
2. Toxin produced by mushroom is called.....
3. Give an example for toxic mushroom.....
4. The mushrooms are belongs to the class.....
5. Write any two diseases caused to the mushrooms. (5x1=5)

## **SECTION-B**

*Answer any four of the following. Each question carries 2 marks*

6. Spawn production
7. Poisonous mushrooms
8. Agaricus
9. Value added products of mushrooms
10. Vegetative character of mushrooms
11. Amanita phalloides
12. Basidiomycetes (4x2=8)

## **SECTION-C**

*Answer any two of the following. Each question carries 3 marks.*

13. Health benefits of mushrooms
14. Cultivation of oyster mushroom using paddy straw/agricultural wastes.
15. Need for mushroom cultivation.
16. Therapeutic aspects of mushrooms (2x3=6)

## **SECTION-D**

*Answer any one of the following. Each question carries 5 marks*

17. Discuss briefly about the general principles of mushroom cultivation.
18. Write a note on preservation and post-harvest technologies associated with mushroom cultivation. (1x8=8)

[illegible]

GD18CMI	RAJNA C												
GD18CMI	SAHLA.K												
GD18CMI	SEERSHA. K						A						
GD18CMI	SHRADHA SURESH												
GD18CMI	SREESHMA.K												
GD18CMI	ARUN JOSHY												
GD18CMI	MUHAMMED FARHAN P P				A					A			

## PG DEPARTMENT OF CHEMISTRY

ADD ON COURSE 2020-2021

### **BASIC PRINCIPLES AND APPLICATIONS OF ORGANIC CHEMISTRY IN CHEMDRAW ( GASCHE20 )**



Duration -6 months (once a year)

Department of chemistry conducted add on course on the topic Basic principles and Applications of organic chemistry in chemdraw during the academic year 2020-2021. It was a six month duration course comprises of both theory and practical classes. Students were evaluated on the basis of theory and practical examinations, assignment and their interactions in the class. Totally we were conducted 30 classes.

**Resource Person:**

Rasin P V  
Research scholar  
Department of Chemistry  
NIT Trichy

**Coordinator:**

Anju sunny  
Assistant professor  
Department of chemistry ,GASC, Mathil  
Email id : [anjusunny@gasc.ac.in](mailto:anjusunny@gasc.ac.in)  
Phone: 8281592830

## INTAKE

Each batch will be limited to maximum of 55 students.

## ELIGIBILITY

Final year Degree and first year PG students of chemistry department.

## MODE OF LEARNING

Blended mode

## ABOUT THE COURSE

Stereochemistry is one of the emerging branch of chemistry which deals with three dimensional arrangement of atoms. Using stereochemistry, chemists can work out the relationships between different molecules that are made up from the same atoms. Chemdraw is a leading chemistry drawing software for drawing a molecule structure and finding stereochemistry of the molecule.

## COURSE OBJECTIVE

This course will familiarize the students on aspects of chemdraw software and help them to draw molecular structure and finding stereochemistry. Also this course will help the students to study the basics of organic chemistry.

## LEARNING OUTCOME

By the end of course students will able to

- Explain basics of organic chemistry
- Drawing structures of molecules using Chemdraw
- Formulating simple organic reactions
- Become more interested in organic chemistry
- Designate R&S and D&L configuration to molecule

## REQUIRMENT

- Computers with chemdraw software
- Molecular models

## COURSE SYLLABUS Module I (6 hour)

### **Nomenclature and structure of organic molecules.**

Unique nature of carbon, functional groups, homologues series, classification of organic compounds- open, closed, cyclic etc, nomenclature of alkanes, alkenes, alkynes and different functional groups, hybridization of hydrocarbons.

## Module II (8 hour) Basics of stereochemistry

Introduction to isomerism –chain, position, functional, metamerism, tautomerism, concept of stereoisomerism, cis- trans, Z-E , anti- syn conformations,, configurations and conformations, D&L, R&S configurations, chirality, enantiomers, diastereoisomers.

### Module III (6 hour) Basics of reaction mechanism

Introduction, substrate, reactants, reagent, types of reagents, different types of reactions, reaction intermediates.

### Module IV (10 hour) Basics and applications of chemdraw

Tools of chemical structures, structural representation of simple chain molecules, structure of fused rings and heterocyclic molecules, configurational representation of simple and double stereo centered chiral compounds, representation of simple organic molecule.

### Evaluation and Grading

Active participation and individual participation outside the class are important for the successful completion of the course. The student will have to submit one assignment and pass a written final examination. Assignment shall be for 10 marks, practical examination shall be for 30 marks and written examination shall be for 60 marks. So total 100 marks. The duration for practical examination will be 30 minutes and for written examination two hours. The written examination will have objective and subjective questions.

Grading scale of the course

Mark	Grade	Performance
90 and above	A	Outstanding
80-89	B	Excellent
70-79	C	Very good
60-69	D	Good
50-59	E	Satisfactory
<50	F	Needs to improve

Certificates will be issued to all those who successfully completed the course

#### Number of students participated-53

SL NO.	REG. No.	NAME
1	GD18CCHR01	ADHITHYA. P
2	GD18CCHR02	AISHWARYA RAVI
3	GD18CCHR03	AKHILA. M. V
4	GD18CCHR04	ANAGHA. K
5	GD18CCHR05	ANAGHA. K
6	GD18CCHR06	ANIJA. K. V
7	GD18CCHR07	APTHA PREM
8	GD18CCHR08	ATHIRA. C
9	GD18CCHR09	DARSHANA RAMESAN. P
10	GD18CCHR10	HRIDYA PRAKASHAN

11	GD18CCHR11	KEERTHANA. M
12	GD18CCHR12	MEGHANA MANOJ
13	GD18CCHR13	SREELAKSHMI. M. K
14	GD18CCHR14	SREELAKSHMI. P
15	GD18CCHR15	SREELAXMI. V
16	GD18CCHR16	SWATHI. M. V
17	GD18CCHR17	UNNIMAYA. M. V
18	GD18CCHR18	ABHIRAM RAVINDRAN
19	GD18CCHR19	NASEEF. A. N
20	GD18CCHR20	NITHIN. A. V
21	GD18CCHR21	ACHSAH ANNA
22	GD18CCHR22	AKHILA. V
23	GD18CCHR23	DEVIKA. M
24	GD18CCHR24	MAYOOKHA. P. V
25	GD18CCHR25	SHABNA NAVAS T N
26	GD18CCHR26	SREYA. K
27	GD18CCHR27	AMAL KRISHNAN. P. V
28	GD18CCHR28	AMAL SEBASTIAN
29	GD18CCHR29	ARJUN. C
30	GD18CCHR30	JYOTHIS. J
31	GD18CCHR31	NELS BABY
32	GD18CCHR32	SANAL. P. V
33	GD18CCHR33	SARANG. K
34	541	ACHANYA. V. V
35	542	ANAGHA. A
36	543	ANJALI. K
37	544	ANUPAMA. N
38	545	ANUSREE. C. V
39	546	APARNA. T. R
40	547	ARYA PRADEEPAN
41	548	ATHIRA. T
42	549	AVINASH VIJAYAN
43	550	ENZIA HAKHANI. M. N
44	551	HARISREE. P
45	552	JILSE VARGHESE



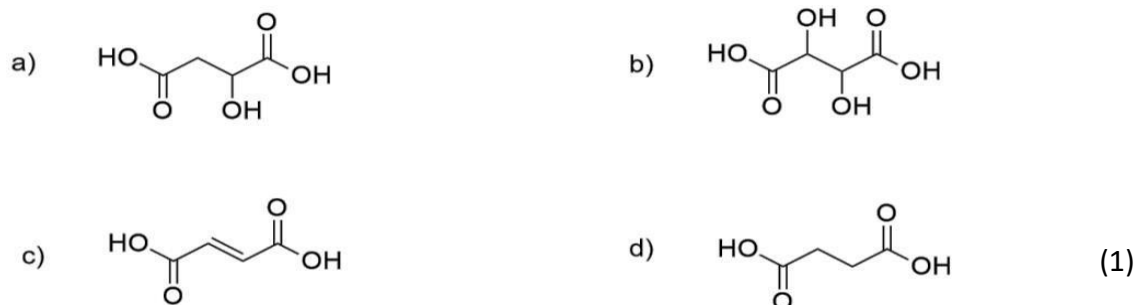


[illegible]

[illegible]

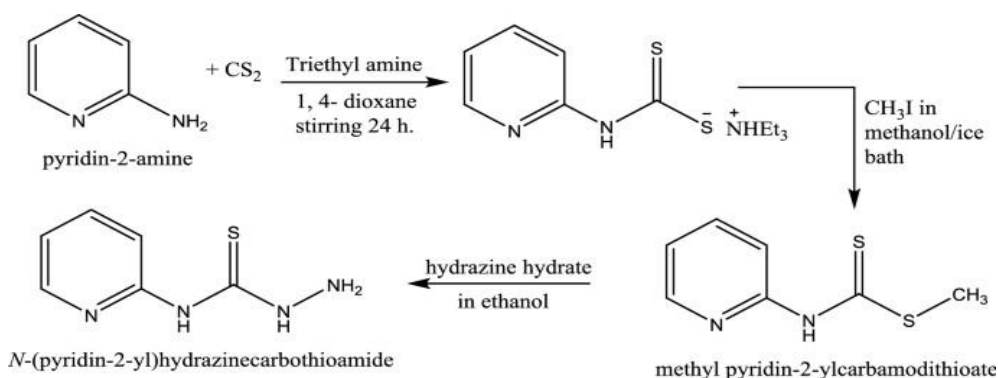
## ChemDraw- Practical exam question paper

1. Which of the following is the structure of malic acid?



2. Below, a scheme for the synthesis of N-(pyridine-2-yl) hydrazinecarbothioamide is shown [from Abu-Melha, S. (2018). Pyridyl thiosemicarbazide: synthesis, crystal structure, DFT/B3LYP, molecular docking studies and its biological investigations. *Chemistry Central Journal*, 12(1)]

*Chemistry Central Journal*, 12(1)]



Re-draw the above scheme in a more aesthetically pleasing way. (5)

3. Predict the <sup>1</sup>H and <sup>13</sup>C NMR spectra of the following compounds



4. Obtain the structures of the following compounds using ChemDraw software

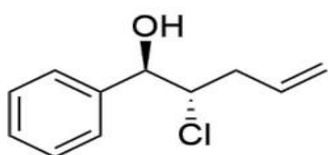
a) Raloxifene b) Aminopterin c) Minocycline (5)

5. Construct the molecule chlorobenzene using the software ChemDraw, and predict the following properties

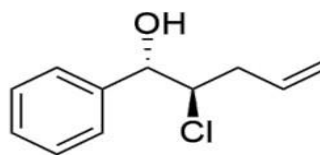
- a) Molecular weight
- b) M/Z values
- c) Boiling point
- d) Gibbs energy
- e) Critical volume

(5)

6. The relation between the compounds A and B is



A

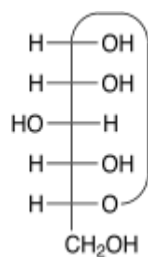


B

(2)

- a) Enantiomers b) Diastereomers c) Identical d) Mesocompounds

7. Draw the following structure as represented

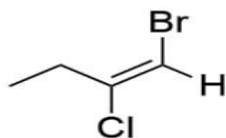


Haworth & Chair projections

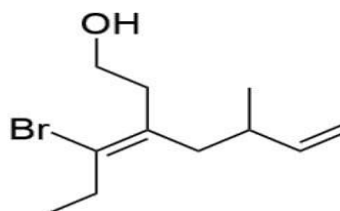
(5)

8. Assign E & Z configurations for the following molecules

a)



b)



(2)

GURUDEV ARTS AND SCIENCE COLLEGE, MATHIL

Basic principles and Applications of organic chemistry in chemdraw( GASCHE20)

Add on course, Theory Examination, May 2021

Time: 3hr

maximum mark: 60

Answer all questions, each carries One Mark

1. Define CIP
2. Who is the developer of chemdraw software
3. Which is the operating system for chemdraw software
4. Define conformation
5. Which is the latest version of CD
6. Give the application of text tool in chemdraw software

Answer all questions, each carries 2 mark

1. Explain different type of organic reactions
2. How can we represent an organic reaction in CD software
3. Explain structure clean up
4. Explain SMILES
5. Draw the structure of R- lactic acid
6. Define substrate
7. Differentiate between D& L glucose
8. Define enantiomers
9. Explain wet lab experiment
10. What is the function of eraser tool
11. Define tautomerism
12. Define CD software
13. Define stereochemistry

Answer all questions, each carry 3 mark

1. Explain methods to download and install chemdraw
2. Explain features of chemdraw
3. How can we convert molecular structure into name in CD
4. Give a comparison of wet lab and dry lab experiment
5. Differentiate between conformation and configuration
6. Explain classification of organic compounds

Answer all questions, each carry 5 mark

1. Give step by step method to find and analyze nmr spectrum and mass spectrum of 1,2 dichloro benzene and 1,3 dichlorobenzene, how many peaks will you get and draw a rough figure for each
2. Give the steps of CIP rule and assign structures the following molecules
  - 1) S- 2- Bromobutane
  - 2) R- 2 choro butane
3. S- 3 bromo 2choro pentagon

# CERTIFICATE



## GURUDEV ARTS & SCIENCE COLLEGE

*(Affiliated to Kannur University)*

**Mathil**

*This is to certify that ..... has completed 6 Month Add on Course 'Basic Principles And Applications Of Organic Chemistry In Chemdraw (GASC CHE 20)' with ..... Grade, Conducted by PG Department of Chemistry, Gurudev Arts and Science College, Mathil, during the Academic year 2020 - 2021.*

**Dr. V Geetha**  
(HOD, Department of Chemistry)

**Dr. KT Raveendran**  
(Principal)

# **CERTIFICATE COURSE IN BOOTSTRAP 4 RESPONSIVE DESIGN**

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**DEPARTMENT OF COMPUTER SCIENCE**

**GURUDEV ARTS AND SCIENCE COLLEGE, MATHIL**

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**Course Title : Bootstrap 4 - Responsive Design**

**COURSE CODE : GASBCA01**

**ABOUT THE COURSE :**

Web site Development is an important area for Computer Science students. To develop websites students need to know the designing tools and the latest technology used for the interactive websites. Bootstrap 4 - Bootstrap 4 Responsive Design course helps the students to understand the tools and modern techniques which make them easier to create websites. This certificate course will enable them to do the projects as a part of the BCA course.

**SYLLABUS:**

**Overview:**

Bootstrap is a sleek, intuitive, and powerful, mobile first front-end framework for faster and easier web development. It uses HTML, CSS and JavaScript.

**Course Objectives:**

- Built-in Support for layout, grids, fluid grids, and responsive designs.
- Pre-built CSS: Contains global CSS classes for typography, tables, grids, forms, buttons, images, and more
- Components: Contains lots of reusable components including Icons, Dropdowns, Navbars, Breadcrumbs, Popovers, Alerts, and many more.
  - JavaScript Plug-ins: Contains lots of custom jQuery plug-ins. You can include them all or one by one.
- Customizable Components: We can customize Bootstrap's components with LESS variables and
- jQuery plug-ins to create our own version.

Pre-requisite / Target Audience: An intermediate knowledge on HTML and CSS

**Module 1:-Introduction to Bootstrap**

- What is Bootstrap Framework
- Why Bootstrap

- History of Bootstrap
- Advantages of Bootstrap Framework
- What is Responsive web page
- How to remove Responsiveness
- Major Features of Bootstrap
- What is Mobile-First Strategy
- Setting up Environment
- How to apply Bootstrap to Applications

### **Module 2:- Bootstrap Grid**

- What is Bootstrap Grid
- How to apply Bootstrap Grid
- What is Container
- What is Offset Column
- How to Reordering Columns
- Advantages of Bootstrap Grid
- How to Display responsive Images
- How to change class properties
- How to use readymade themes
- How to customize Bootstrap's components, Less variables, and jQuery plug-in.
- What is Bootstrap Typography
- How to use Typography
- What is Bootstrap Tables
- What is Bootstrap Form Layout
- What is Bootstrap Button
- How display images in different styles like Circle shape etc
- How to display text like muted and warning etc
- What is Carets Classes
- How to hide or show the text in Bootstrap

### **Module 3:- Bootstrap Components**

- What is Bootstrap Components
- Why Bootstrap Components
- Advantages of Bootstrap Components
- What are the different types of Bootstrap Components
- What is Glyphicons Component
- How to use Glyphicons Component
- What is Bootstrap Dropdown Menu Component
- What is Button Groups and Button Toolbar

## **CERTIFICATE COURSE IN BOOTSTRAP 4 – RESPONSIVE DESIGN**

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- How to use Button Groups and Button Toolbar
- What are different Input Groups Components
- What is Navigation Pills & Tabs Components
- How to use Navigation Pills and Tabs Components
- What is Navbar Component
- How to build a Responsive Navbar
- How to Add Forms and other controls to Navbar
- How to Fix the position of navbar
- What is Breadcrumb Component
- What is Pagination Component
- How to apply Pagination in Application
- What is Labels / Badge Components
- What is Jumbotron / Page Header Components
- What is Thumbnail Component
- What is Alerts & Dismissible Alerts
- How to Create Progress Bar
- What is Media Objects Component
- Why Media Objects Component
- How to use Media Objects Component
- What is Bootstrap List Group Component
- What is Bootstrap Panel Component

**ELIGIBILITY : BCA Final Year Students of Gurudev Arts and Science College can join**

**INTAKE : Limited to maximum of 40 students**

### **EVALUATION AND GRADING:**

**Active participation and individual preparation outside the class are important for the successful completion of the course. The student will have to submit two assignments and pass a written final examination. Assignments shall be for 20 marks each and the written examination shall be for 60 marks. So total 100 marks. The duration of the written exam will be for two hours and it will have objective and subjective questions.**

## **CERTIFICATE COURSE IN BOOTSTRAP 4 – RESPONSIVE DESIGN**

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**Certificates will be issued to all those who successfully complete the course.**

**MODE OF LEARNING: : Online Mode - Google Meet**

**COURSE FEE : 500/-**

**Faculty : Sumesh K, Assistant Professor,  
Department of Information Technology,  
Kannur University**

### **NAME AND DETAILS OF COURSE COORDINATOR:**

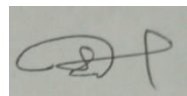
**Priyesh K**

**Assistant Professor,  
Gurudev Arts and Science College  
Mathil  
Payyanur  
Mobile: 8907907151**

## Dept. Of Computer Science

### List Of Students who successfully completed the Add on Course - Bootstrap 4 - Responsive Design

REG NO	NAME	REMARKS
GD18BCAR01	AMRUTHA AJAYAN	PASSED
GD18BCAR02	AMRUTHA K K	PASSED
GD18BCAR03	ANUSREE	PASSED
GD18BCAR04	JIJINA	PASSED
GD18BCAR05	LAKSHMI SANTHOSH	PASSED
GD18BCAR06	NEETHU C V	PASSED
GD18BCAR07	NIMA MURALI	PASSED
GD18BCAR08	THASNEEM K S	PASSED
GD18BCAR09	ABHISHEK K P	PASSED
GD18BCAR10	GOUTHAM RAJ	PASSED
GD18BCAR11	NAVANEETH M	PASSED
GD18BCAR12	AMRUTHA RAJ	PASSED
GD18BCAR13	MEGHA PRABHAKARAN	PASSED
GD18BCAR14	SAJINA P P	PASSED
GD18BCAR15	SOYA BENNY	PASSED
GD18BCAR16	SREELAKSHMI	PASSED
GD18BCAR17	VISMAYA VIJAYAN	PASSED
GD18BCAR18	ABHILASH	PASSED
GD18BCAR19	AJAY DEV	PASSED
GD18BCAR20	AKHIL	PASSED
GD18BCAR21	NIVED KRISHNA	PASSED

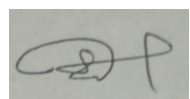


Head Of Department  
Computer Science

## Dept Of Computer Science

### List Of Students who successfully completed the Add on Course - Bootstrap 4 - Responsive Design

REG NO	NAME	REMARKS
GD18BCAR01	AMRUTHA AJAYAN	PASSED
GD18BCAR02	AMRUTHA K K	PASSED
GD18BCAR03	ANUSREE	PASSED
GD18BCAR04	JIJINA	PASSED
GD18BCAR05	LAKSHMI SANTHOSH	PASSED
GD18BCAR06	NEETHU C V	PASSED
GD18BCAR07	NIMA MURALI	PASSED
GD18BCAR08	THASNEEM K S	PASSED
GD18BCAR09	ABHISHEK K P	PASSED
GD18BCAR10	GOUTHAM RAJ	PASSED
GD18BCAR11	NAVANEETH M	PASSED
GD18BCAR12	AMRUTHA RAJ	PASSED
GD18BCAR13	MEGHA PRABHAKARAN	PASSED
GD18BCAR14	SAJINA P P	PASSED
GD18BCAR15	SOYA BENNY	PASSED
GD18BCAR16	SREELAKSHMI	PASSED
GD18BCAR17	VISMAYA VIJAYAN	PASSED
GD18BCAR18	ABHILASH	PASSED
GD18BCAR19	AJAY DEV	PASSED
GD18BCAR20	AKHIL	PASSED
GD18BCAR21	NIVED KRISHNA	PASSED



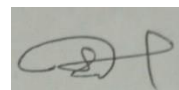
Head Of Department  
Computer Science

**Dept. Of Computer**  
**Science Attendance - Add on Course**  
**Faculty: Sumesh K**

SI	NAME	12/7/2020	12/12/2020	12/13/2020	12/19/2020	12/20/2020	1/2/2021	1/3/2021	1/9/2021	1/10/2021	1/16/2021	1/17/2021	1/23/2021	1/24/2021	2/6/2021	2/7/2021	2/13/2021	2/14/2021	2/27/2021	2/28/2021	3/13/2021	3/14/2021	3/28/2021	3/30/2021	PERC
1	AMRUTHA AJAYAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100
2	AMRUTHA K K	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	91.30
3	ANUSREE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100
4	JIJINA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100
5	LAKSHMI SANTHOSH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100
6	NEETHU C V	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100
7	NIMA MURALI	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	91.30
8	THASNEEM K S	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	95.65
9	ABHISHEK K P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	86.95
10	GOUTHAM RAJ	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	87
11	NAVANEETH M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100
12	AMRUTHA RAJ	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	95.65
13	MEGHA PRABHAKARAN	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	91.30
14	SAJINA P P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100
15	SOYA BENNY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	95.65
16	SREELAKSHMI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100
17	VISMAYA VIJAYAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100
18	ABHILASH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100
19	AJAY DEV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100
20	AKHIL	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	91.30
21	NIVED KRISHNA	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	87

Faculty :

HOD, Dept. Of CS



**DEPARTMENT OF COMPUTER SCIENCE**  
**EXAMINATION - ADD ON COURSE**  
**SUBJECT: BOOTSRAP 4 RESPONSIVE DESIGN**

---

Time: 2 Hours

Marks: 50

Answer the following Questions (Each carries 1 Mark) [25 X 1 = 25]

1. Media Queries in Bootstrap allow you to move, show and hide content based on the viewport size.

- a. True
- b. False

2. Bootstrap's grid system allows up to \_\_\_\_\_ columns across the page.

- a. 12
- b. 13
- c. 14
- d. 11

3. How many Container class are there in Bootstrap?

- a. 1
- b. 2
- c. 3
- d. 4

4. The \_\_\_\_\_ class makes a table more compact by cutting cell padding in half.

- a. .table-bordered
- b. .table-responsive
- c. .table-striped
- d. .table-condensed

5. The Bootstrap grid system has four classes which defines screen size:

- a. s, sm, mid, lg
- b. xs, sm, md, lg
- c. xs, sml, mid, lg
- d. x, sm, md, lg

6. In Bootstrap Grid System, you can turn any fixed-width layout into a full-width layout by changing the `.container` class to `.container-fluid`.

- a. True
- b. False

7. Which class is use to display black navigation bar?

- a. `.nav-pills`
- b. `.navbar-inverse`
- c. `.nav-stacked`
- d. None of the above

8. Which class is used to add rounded corners to an image?

- a. `.img-circle`
- b. `.img-rounded`
- c. Both of the above
- d. None of the above

9. Which of the following is true about Jumbotron?

- a. A jumbotron is displayed as a grey box with rounded corners.
- b. Jumbotron can increase the size of headings and add a lot of margin for landing page content.
- c. Both of the above
- d. None of the above

10. Which of the following class is used to change the size of wells?

- a. `.well-sm`
- b. `.well-lg`
- c. Both of the above
- d. None of the above

11. Which of the following are contextual classes?

- a. `.success`
- b. `.info`
- c. `.warning`
- d. `.active`
- e. All of the above

12. The bootstrap class `md` means for

- a. phones
- b. tablets
- c. small laptops
- d. laptops and desktops

13. Which class is used to create warning notification alerts in Bootstrap?

- a. .alert-danger
- b. .alert-warning
- c. .alert-info
- d. .alert-success

14. Which class is used to create a button as a link in bootstrap?

- a. .btn-hyperlink
- b. .btn-link
- c. .btn-url
- d. .btn-anchor

15. Badges can also be used inside button elements.

- a. True
- b. False

16. The\_\_\_\_\_class is used to right-align navigation bar buttons.

- a. .navbar-default
- b. .navbar-btn
- c. .navbar-right
- d. .navbar-rgt

17. Which class is used to add buttons inside the navigation bar?

- a. .navbar-default
- b. .navbar-btn
- c. .navbar-button
- d. .navbar-right

18. Which of the following class is used to create thumbnail image?

- a. .img-tmbnail
- b. .img-thumb
- c. .img-thumbnail-image
- d. .img-thumbnail

19. .img-circle class makes the entire image round by adding border-radius:\_\_\_\_\_.

- a.50%
- b.45%
- c.100%
- d. None of the above

20. Use a <div> element with the \_\_\_\_\_ class to create a container for media objects.

- a. .media
- b. .media-left
- c. .media-right
- d. None of the above

21. The contextual classes that are used to create colored progress bar:

- a. .progress-bar-success
- b. .progress-bar-info
- c. .progress-bar-warning
- d. .progress-bar-danger
- e. All of the above

22. The class ".list-group" within the <ul> element and the class ".list-group-item" within the <li> element are used to create a basic list group.

- a. True
- b. False

23. Which of the following bootstrap classes are used to create vertical pills navigation?

- a. .nav, .nav-tabs
- b. .nav, .nav-pills, .nav-stacked
- c. .nav, .nav-pills, .nav-justified
- d. .nav, .nav-tabs, .nav-justified

24. The Bootstrap Scrollspy plugin is used to automatically update links in a navigation list based on scroll position.

- a. True
- b. False

25. Which of the following contextual classes are used to color the panels?

- a. .panel-primary
- b. .panel-success
- c. .panel-info
- d. .panel-warning
- e. All of the above

Answer the following questions (Each carries 5 Marks)  
**[5 X 5 = 25]**

26. What is Bootstrap 4?
27. Explain the use Bootstrap 4?
28. List the different image shapes & Corners used in Bootstrap 4?
29. Explain media objects in bootstrap 4?
30. Explain colors in Bootstrap 4.

DEPARTMENT OF COMPUTER SCIENCE  
GURUDEV ARTS AND SCIENCE COLLEGE,  
MATHIL

# CERTIFICATE

Of Completion



This certificate has been  
presented to

*Vismaya Vijayan*

for successfully completing her Add On Course  
on "BOOTSTRAP 4 RESPONSIVE DESIGN"

07.12.2020 - 06.03.2021

HOD, Dept. Of CS



**GURUDEV**

RABINDRANATH TAGORE

ARTS & SCIENCE COLLEGE

DEPARTMENT OF COMPUTER SCIENCE

IN ASSOCIATION WITH **IQAC** GURUDEV

INTRODUCE

**Add on Course**

**Bootstrap 4 Responsive Design**

**For Computer Science Students**

## **Add on course (PG dept. of commerce)**

**Course Name:** Computerized Accounting (Theory and practical certified course)

**About the course:**

In this certified course, theoretical and practical basis of accounting subjects and accounting related software (Tally, MS Excel) are learnt.

Course duration: 40 days for both practical and theory. (2019-2020).

Total students: 11

1. GD18BR0001 - AISWARYA. S
2. GD18BR0003 - ASWANI. M. E
3. GD18BR0006 - KARTHIKA. R
4. GD18BR0007 - KEERTHI KANNAN. P
5. GD18BR0008 - MEENU. P. V
6. GD18BR0009 - MIDHUNA C KAMAL
7. GD18BR0010 - RANJANA. A. V
8. GD18BR0011 - SREEJINA. K
9. GD18BR0017 - GOPIKA GOPALAKRISHNAN
10. GD18BR0037 - MUHAMMED ATHIF. K. K
11. GD18BR0039 - PRASAD. K. V

1	students who have completed Add-on course: TALLY 2018-2019		↑	Result	▼
2	ABHIN VIJAYAN			p	
3	AKSHAY MP			p	
4	AMRITHA PJ			p	
5	ANANA			p	
6	ANJANA E			p	
7	ANJANA K			p	
8	ANUSREE K			p	
9	ATHIRA N			p	
10	ATHULYA			p	
11	BHAVANA NV			p	
12	BHAVYA V NAMBIAR			p	
13	KIRAN			p	
14	LIJINA			p	
15	NAVYA			p	
16	RAJEESH			p	
17	SANOOJA			p	
18	SHILPA			p	
19	SREEDEVI			p	
20	VYSHAK K			p	
21	VYSHAK VIJAYAN			p	

## Memorandum of Understanding

05<sup>th</sup> September 2018

This is a mutually beneficial association program between Synergy School of Business Skills a Business Skill development initiative of CADD Centre Training Services Pvt. Ltd., Asia's #1 CADD Company and Gurudev Arts & Science College, Mathil.

The purpose of this MOU is to provide training to participating students 18 nos. Gurudev Arts & Science College, Mathil by Synergy School of Business Skills, Second Floor Oasis Mall, N.H. Perumba, Payyannur on following courses,

- Tally ERP 9 Institutional Training Program

### Terms of Collaboration

- Training shall be conducted at the premise of Gurudev Arts & Science College, Mathil
- The Management of the Institution shall provide access to the classroom, lab facility, adequate computer systems for the instructor and the participants, software (tally), projector, and such other infrastructure which is necessary for the smooth functioning of the training program.
- Synergy School of Business Skills, Payyannur will be providing Instructors and supporting staffs.
- Synergy School of Business Skills, Payyannur will provide course certificate after the successful completion of the course.

### *Trainer's profile:*

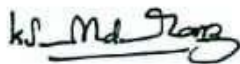
*Preetha Rajiv (Trainer with Thirteen years of work experience as an accountant in Emirates and Oman Air).*

Changes would be entertained only through mutual agreement. The agreed fee may change depending on the changes in mutual agreement.

This memorandum of understanding will be effective from 05<sup>th</sup> of September 2018.

We wholeheartedly agree for this association and the terms and conditions mentioned above.

For Synergy School of Business Skills Payyannur



PRINCIPAL  
GURUDEV ARTS & SCIENCE COLLEGE  
MATHIL, KANNUR DIST.



A Division of

# CERTIFIED COURSE IN COMPUTERISED ACCOUNTING



## GURUDEV

RABINDRANATH TAGORE

ARTS & SCIENCE COLLEGE

PG DEPARTMENT OF COMMERCE

INTRODUCE

ADD ON  
COURSE

**COMPUTERISED ACCOUNTING**  
(THEORY & PRACTICAL CERTIFIED COURSE)

*PSC APPROVED CERTIFICATE*



Microsoft®  
Excel

Tally.ERP 9

*Tally*

POWER OF SIMPLICITY

TALLY ERP 9 | MS EXCEL | MANUAL ACCOUNTING

## FINANCE SYSTEM

- SALES SYSTEM
- INVENTORY SYSTEM
- MANUFACTURING
- PURCHASE SYSTEM
- PAYROLL SYSTEM
- GST (THEORY & PRACTICAL)

## **COMPUTERISED ACCOUNTING**

### **ABOUT THE COURSE**

**In this certified course, theoretical and practical basis of accounting subjects and accounting related software (Tally, MS Excel) are learnt.**

### **COURSE OBJECTIVE**

**This course will familiarize the students on the basic accounting terms and understand the preparation of Journal, Ledgers, Trial balance, Trading & Profit or Loss Account and Balance sheet with adjustments. And also understand how to prepare these accounts in Tally and MS Excel**

### **LEARNING OUT COME**

**By the end of the course the student will be able to:**

- Understand the basic concept of Accounting.**
- Understand the Tax system (GST)**
- Understand the accounting software**

### **ELIGIBILITY**

**Any student of Gurudev Arts Science College is eligible to join.**

## **COURSE SYLLABUS**

### **MODULE – I**

#### **Basic Accounting Terms**

Business Transaction, Capital, Drawings. Liabilities (Non-Current and Current). Assets (Non-Current, Current); Fixed assets (Tangible and Intangible), Expenditure (Capital and Revenue), Expense, Income, Profit, Gain, Loss, Purchase, Sales, Goods, Stock, Debtor, Creditor, Voucher, Discount (Trade discount and Cash Discount).

### **MODULE - II**

#### **Recording of Business Transactions**

Rules of Debit and Credit. Recording of Transactions: Books of Original Entry- Journal. Ledger: Format, Posting from journal and subsidiary books, Balancing of accounts. Preparation of Stock register. Preparation of Trial balance. Preparation of final accounts. Accounting adjustments.

### **MODULE - III**

#### **Computerised Accounting System**

Tally: creating a company-configure and features settings-creating accounting ledgers and groups – creating stock items and groups – voucher entry – ledger accounts; Trial Balance; Profit and Loss Account; Balance sheet – selecting and shutting a company – Tax calculations (VAT & GST). MS Excel: Getting to Know Excel - Essential Formula Knowledge - Intermediate Formula Knowledge - Optimizing Data - Data Analysis - Presenting and Reporting - Validating and Updating - Preparing to Deploy

### **MODULE - IV**

#### **TAX System**

VAT: Meaning and Concept. GST: Meaning and Concepts. (Theory)

## **EVALUATION AND GRADING**

The student will have to pass final practical examination. Examination shall be for 100 marks. The duration of the written exam will be for one

and half hours and it will have objective and subjective questions.

#### **GRADING SCALE OF THE COURSE:**

<b>MARK</b>	<b>GRADE</b>	<b>PERFORMANCE</b>
90 and above	<b>A</b>	Outstanding
80-89	<b>B</b>	Excellent
70-79	<b>C</b>	Very Good
60-69	<b>D</b>	Good
50-59	<b>E</b>	Satisfactory
< 50	<b>F</b>	Needs to improve

#### **COURSE FEE**

Rs.3000/- (For both Manual and Practical)

#### **REFERENCE BOOKS /MATERIALS**

- FINANCIAL ACCOUNTING – Advanced principles and practice (M.C.K Nambiar)
- FINANCIAL ACCOUNTING – Advanced principles and practice ( Prof. M.V. Krishnan and Prof. Dr. P. Musafer Ahamed
- SYSTEMATIC APPROACH TO ACCOUNTING – Dr. K G C Nair and Dr. Dipa
- TALLY ACE – Tally Education Pvt. Ltd

#### **COURSE COORDINATOR**

**FARIS M T P**

**ASSISTANT PROFESSOR,**

**PG DEPARTMENT OF COMMERCE**

**GURUDEV ARTS AND SCIENCE COLLEGE, MATHIL, PAYYANUR.**

Email id: [farismtp@gasc.ac.in](mailto:farismtp@gasc.ac.in) [farismohmed25@gmail.com](mailto:farismohmed25@gmail.com)

Mobile: +91 7025712625

**GURUDEV ARTS AND SCIENCE COLLEGE, MATHIL**

**ADD-ON Course Examination May 2021**

**GASCCMO1: PUBLIC ADMINISTRATION**

**Time: 3Hours**

**Mam.marks:100**

**PART-A**

**Answer all questions. Each carries 1 mark.**

1. Expand I.F.S
2. Expand IRS
3. Which language is known as mother of all language?
4. Where is the headquarters of NEEDHI AYOOG?
5. The city as the FABLED city of gold?

**(5\*1=5)**

**PART- B**

**Answer all questions. Each carries 1 mark.**

6. Full form of POSDCORD?
7. What is disinvestment?
8. What is co-operation?
9. What you mean by NGO?
10. What do you mean by Ministries?

**(5\*1=5)**

**PART- C**

**Answer any 5 questions. Each carries 2 marks.**

11. What is management? Explain the features of management?
12. What do you mean by public-private partnership?
13. Explain Hawthorne experiment?
14. Which battle established British supremacy in India?
15. Distinguish between bureaucracy and democracy?
16. Explain any four scope of public administration?

**(5\*2=10)**

**PART - D**

**Answer any 8 questions. Each carries 5 marks.**

17. Explain the challenges in public administration?
18. What is the importance of public administration?
19. Explain the criteria for UPSC civil service Exam?
20. What are the demerits of liberalization?
21. What is leadership? Explain its styles?
22. Explain the difference between formal and informal communication?
23. Explain the techniques for developing interpersonal skill?
24. Distinguish between public and private organization?
25. Describe the techniques of scientific management? (8\*5=40)

**PART - E**

**.Answer any 5 Questions. Each carries 8 marks**

26. Explain the 14 principles of administrative management?
27. Define privatization? Explain its merits and demerits?
28. Explain the features of public administration in India?
29. Explain the importance of management in public administration?
30. Briefly explain classical management thoughts?
31. Explain the effects of globalization in Indian economy? (5\*8=40)

**COURSE IN PUBLIC  
ADMINISTRATION**

# **COURSE IN PUBLIC ADMINISTRATION**

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**DEPARTMENT OF COMMERCE AND  
MANAGEMENT STUDIES GURUDEV ARTS AND  
SCIENCE COLLEGE, MATHIL**

## **COURSE IN PUBLIC ADMINISTRATION**

**COURSE TITLE : PUBLIC ADMINISTRATION**  
**COURSE CODE : GASCCM01**

### **ABOUT THE COURSE**

**Public administration is an important area for students. It is study about the chances and importance of public services. Students need to know about the public administrative services and its chances. Public administrative course helps the students to prepare in these type of competitive examinations. This certificate course will motivate them public service examination.**

### **Course Objectives:**

**This course will familiarize the students on aspects of public administrative services and help them to build a career in civil service. Also this course will help the students to study the basics competitive examinations**

**SYLLABUS:**

**Module 1:-Introduction**

- Public administration
  - Meaning of Public administration
  - Scope of Public administration
  - Significance of public administration
  - Public administration examinations
  - Criteria for UPSC civil services exam
  - Challenges in public administration
  - What is liberalization
  - Challenges of liberalization
  - What is globalization
  - What is privatization
  - Effects of liberalization, globalization And privatization in  
Indian Economy
- 

**Module 2:- Organizations**

- What you mean by ministries
- Different ministries
- Major departments in India
- Different commissions in India
- Major commission reports in India
- What is Cooperation
- What is companies
- Role of companies in India's development

## **COURSE IN PUBLIC ADMINISTRATION**

- Public organizations
- private organizations
- Public -private partnership
- NGO

### **Module 3:- Administrative Thoughts**

- What is management
- Importance of management in public administration
- Concept of management
- Scientific Management
- Contributions of F.W TAYLOR
- Classical theory- Henry Fayol
- Human relation school- ELTON MAYO
- Bureaucratic organizations -MAX WEBER
- Behavioral science approach
- Modern approach of management

### **Module 4:- Administrative Behaviour**

- Decision making process
- Interpersonal skills
- Communication skills
- Leadership
- Administrative System
- Bureaucracy and Democracy

**COURSE IN PUBLIC  
ADMINISTRATION**

**ELIGIBILITY : BBA/BCOM Students of Gurudev Arts and  
Science College can join**

**INTAKE : Limited to maximum of 35 students**

**EVALUATION AND GRADING:**

**Active participation and individual preparation outside the class are important for the successful completion of the course. Total marks in 100. The duration of the written exam will be for three hours and it will have objective and subjective questions.**

**CERTIFICATE WILL BE ISSUED TO ALL THOSE WHO SUCCESSFULLY  
COMPLETE THE COURSE**

---

**MODE OF LEARNING : ONLINE MODE-GOOGLE MEET**

**COURSE FEE : NIL**

**FACULTIES : CLINT K BENNY (ASST. PROF GASC)**

**JOBIN THOMAS (ASST. PROF GASC)**

**SUMI THOMAS (ASST. PROF GASC)**

**COURSE IN PUBLIC  
ADMINISTRATION**

**NITYA .N (ASST.PROF GASC)**

**VINEETHA .C (ASST. PROF GASC)**

**VYSHNAVI K.P (ASST. PROF GASC)**

**NAME AND DETAILS OF COURSE COORDINATOR:**

**JINITH .K**

**ASSISTANT PROFESSOR**

**GURUDEV ARTS AND SCIENE COLLEGE**

**MATHIL**

**PHONE: 9447009066**

## CERTIFICATE OF COMPLETION



STUDENT ID : P200114110

TITLE : Tally Complete

AWARDED TO : ATHIRA SURESH

AT : Payyannur, Kerala

START DATE : 19-07-2018 END DATE : 29-04-2019

This is a computer generated certificate. For more details, Please verify at [https://www.synergysbs.com/student\\_verification.php](https://www.synergysbs.com/student_verification.php)

MANAGING DIRECTOR

**Shameez Mohammed**

CENTRE HEAD

**14-01-2020**

DATE OF ISSUE

Synergy is a division of CADD Centre Training Services Private Limited, a NSDC approved Training Partner

Synergy School training is available through a wide network of training centres. The courses offered are comprehensive and of high quality. The participants are trained by well experienced instructors in the latest technology.

# Solution

► TALLY ERP 9



**Corporate Office : Synergy School of Business Skills**

8<sup>th</sup> Floor, GEE GEE Crystal, Office No. 8C & 8D,  
#91, Dr. Radhakrishnan Salai, Mylapore,  
Chennai-600 004. India. [www. synergysbs.com](http://www.synergysbs.com)

**Note:**

> This e-certificate is issued as a part of Synergy's Go-Green drive

STUDENT NAME: ATHIRA SURESH

STUDENT ID No.: P200114110
**Expected Skills Set :**
**Basics of Accounting:**

Introduction to Accounting

Advantages of Accounting

Double entry system of Book keeping

Journal, Ledger

Trial Balance

Final Statements

**Tally Foundation:**

Introduction about Tally

Features and Configuration of Tally

Company Information

Groups and Ledgers

Voucher Types

Accounting Voucher

Non Accounting Voucher

Inventory Master

Inventory Voucher Type

Bill Wise Details

Godown, Invoicing

Point of Sale (POS)

Cost Center and Cost Category

Banking

**Import of Data**

Security Control

Multi Account Printing

Backup and Restore

Multi Language

Import and Export

Audit and compliances

Tally.Net, Tally Vault

Report Generation

**Tally Advance:**

Multi-Currency

Budget

Interest Calculation

Order Processing

Tracking Number

Pre closure of Order

Bill of Material(BOM)

Batch wise Detail

Additional Cost

Different Actual and Billed Quantities

Zero Value Entries

Re-Order Level

**Price Level and Price List**
**Job Order Processing**
**Payroll**
**GST**
**Report Generation (Over All)**
**Software Used : Tally**

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# **CERTIFICATE COURSE IN ADVANCED CELL BIOLOGY**

**DEPARTMENT OF BIOCHEMISTRY  
GURUDEV ARTS AND SCIENCE COLLEGE, MATHIL**

**NAME OF ADD ON COURSE-** ADVANCED CELL BIOLOGY

**NAME OF DEPARTMENT-** BIOCHEMISTRY

**COURSE FEES DETAILS** – Rs 850/-

**COURSE DURATION-** 34 HOURS (3 MONTHS)

**NUMBER OF STUDENTS REGISTERED** - 10

-

**GURUDEV ARTS AND SCIENCE COLLEGE,  
MATHIL BIOCHEMISTRY ADD ON COURSE  
EXAMINATION, MAY 2021GASCBCH01:  
ADVANCED CELL BIOLOGY**

**SECTION A**

**Answer all objective questions. Each carries 1mark**

1. Choose the correct one

- a) Benign tumor are normal that is mainly the skin wart
- b) Malignant tumor mainly uncontrollable cell proliferation.
- c) Benign tumor are harmful to the skin
- d) Benign tumor later leads to cancer.

- A. a and b are correct
- B. a and d are correct
- C. b and c are correct
- D. c and d are correct

2. Which one is not an example of proto-oncogene?A

- RAS
- B WNT
- C MYC
- D SEM

3. Pick out the DNA repair gene

- A. BRCA -1
- B. SEM
- C. TEM
- D. STEM

4. Which pair is correct?

- i. Retinoic acid – leukemia
- ii. Herceptin – colorectal cancer
- iii. Erbitux – breast cancer

- A. i and ii are correct
- B. i is correct
- C. ii and iii are correct
- D. iii is correct

5. Nuclear transport takes place through - \_\_\_\_\_

- A. cytoplasm
- B. Plasma membrane
- C. Nuclear pore
- D. None of the above

6. Pick out the correct sentence?

- i. Transport of protein like histone can easily pass through inside and outside without using energy
- ii. Small molecule can easily pass through inside the nucleus
- iii. Large molecule use energy for the transport inside the nucleus.

- A. i and ii are correct
- B. i, ii and iii are correct
- C. iii is correct
- D. ii and iii are correct

7. Which parts are not involved in the nuclear pore structure?

A. *annular subunit*

B. *cytosolic tail*

C. *column subunit*

D. *histone*

8. *The molecule below \_\_\_\_\_Dalton can easily pass the nuclear pore*

A. *5*

B. *50*

C. *500*

D. *5000*

9. *Importin are mainly known as \_\_\_\_\_*

A. *karyopherin*

B. *cargo protein*

C. *coat protein*

D. *nucleotide complex*

10. *How many types of membrane protein are involved in the insertion of protein into endoplasmic reticulum?*

A. *4*

B. *8*

C. *2*

D. *6*

## ***SECTION B***

***ANSWER ALL QUESTIONS. EACH CARRIES 2 MARKS***

11. *Explain the properties of cell membrane.*

12. *Write a short note on nuclear pore.*

13. *What is Oncogene?*

14. *What is meant by Vesicle Fusion?*

15. *Explain electron microscopy.*
16. *What is Coat Protein?*
17. *Briefly explain Cargo selection.*
18. *What is meant by vesicle budding?*
19. *Explain the structure of nuclear envelop*
20. *What is Proto Oncogene?*

### ***SECTION C***

***ANSWER ALL QUESTIONS. EACH CARRIES 3 MARKS.***

21. *Define properties and composition of cell membrane.*
22. *Briefly explain the development and causes of cancer.*
23. *Write a note on protein sorting and export from Golgi.*
24. *What are the types of tumor and explain with examples*
25. *Briefly explain the applications of scanning electron microscopy*

### ***SECTION D***

***ANSWER ALL QUESTIONS. EACH CARRIES 5 MARKS***

26. *Describe the types of microscopy*
27. *Explain Ultra centrifugation*
28. *Give a note on tumor viruses*

*Name of Add on course: Advanced Cell Biology*

*Class mode: Online through Google meet*

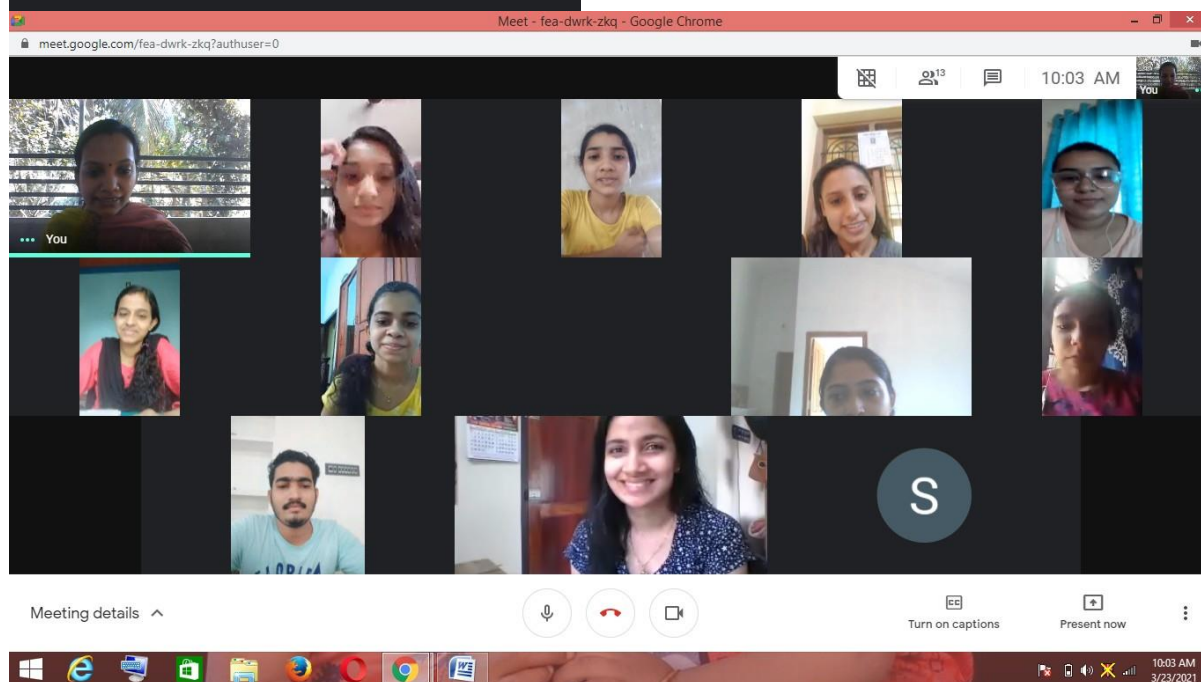
*Duration of course: 28 hours*

*Course code: GASC BCH01*

*Faculty: Mrs Sruthi T V*

*Total number of students registered (2020-2021): 11*

<i>S No</i>	<i>Register Number</i>	<i>Name of the student</i>	<i>Attendance (%)</i>	<i>Assign  ( 20 marks)</i>	<i>Paper Presentation marks (20 marks)</i>	<i>Exam  60 marks</i>
1	GD18CBCR02	Archana K	100	20	20	58
2	GD18CBCR04	Bhavana E	100	20	20	59
3	GD18CBCR05	Geethu Prakash T V	100	20	20	59
4	GD18CBCR08	Hridhya E	100	19	20	54
5	GD18CBCR09	Soorya K K	100	20	20	56
6	GD18CBCR13	Manikandan M	100	20	19	54
7	GD18CBCR15	Sidharth K V	90	20	19	52
8	GD18CBCR16	Ashwathi M	100	19	20	53
9	GD18CBCR17	Devika Dayanandan	100	19	20	58
10	GD18CBCR18	Divya Divakaran	100	19	19	53
11	GD18CBCR21	Sandra K	100	20	20	58



## **CERTIFICATE COURSE IN ADVANCED CELL BIOLOGY**

### **ABOUT THE COURSE**

The aim of the course is to give basic knowledge about the structure of cell membrane, import and export of protein, cancer biology and methods in cell biology.

### **COURSE OBJECTIVE**

- Understand the cellular membrane properties and composition.
- Describe the traffic pathway between the endoplasmic reticulum, Golgi apparatus, nuclear membrane, endosomal compartments and the regions of plasma membrane.
- Understand the genetic changes that give rise to cancer and their therapeutical approach.
- Familiarise the students the techniques related to cell biology.

### **LEARNING OUTCOME**

On successful completion of the course, the students will be able understand

- Basic structure of cell membrane and its composition
- Protein targeting and translocation
- Have an in depth understanding about molecular and cellular mechanism that leads to cancer.
- Be able to read and understand article within the field of cancer research.
- Enable the students to get sufficient knowledge in principles and applications of cell methodology.

### **SYLLABUS**

#### **UNIT I**

##### **Plasma membrane and nuclear transport**

- Properties and composition of cell membrane
- Structure of nuclear envelope

- Nuclear pore complex
- Transport across nuclear envelope
- Regulation of nuclear protein import and export

## **UNIT II**

### **Protein Transport**

- Targeting protein to endoplasmic reticulum, smooth endoplasmic reticulum and lipid synthesis
- Export of protein and lipids from endoplasmic reticulum and into endoplasmic reticulum (only mechanism)
- Protein sorting and export from Golgi
- Mechanism of vesicular transport, cargo selection, coat proteins and vesicle budding
- Vesicle fusion

## **UNIT III**

### **Cancer Biology**

- Development and causes of cancer
- Genetic basis of cancer
- Oncogenes
- Tumour virus
- Molecular approach to cancer treatment

## **UNIT IV**

### **Advanced methods in cell biology**

- Fluorescence microscopy – FACS
- Confocal Microscopy
- Electron Microscopy
- Centrifugation for sub cellular fractionation
- Ultra-centrifugation

## **ELIGIBILITY**

Life Science students of Gurudev arts and Science College can join, preference for final year.

## **INTAKE**

Each batch will be limited to a maximum of 40 students.

## **MODE OF LEARNING**

Blended mode

## **COURSE FEE**

Rs 850/-

## **EVALUATION AND GRADING**

Active participation and individual preparation are important for successful completion of the course. The student will have to submit to assignments, present paper and pass written final examination.

Assignment shall be for 10 marks each, the written examination shall be for 60 marks and paper presentation shall be for 20 marks. So total 100 marks. The duration of the written exam will be for two hours and it will have objective and subjective questions. The duration of the paper presentation will be for 15 minutes.

## **GRADING SCALE OF THE COURSE**

<b>MARK</b>	<b>GRADE</b>	<b>PERFORMANCE</b>
90 and above	A	Outstanding
80-89	B	Excellent
70-79	C	Very Good
60-69	D	Good
50-59	E	Satisfactory
< 50	F	Needs to improve

Certificate will be issued to all those who successfully complete the course.

## **REFERENCE BOOKS**

1. The cell: A Molecular Approach (2009) 5<sup>th</sup> ed., Cooper, G.M and Hausman, R.E., ASM Press & Sunderland (Washington DC), Sinauer Associates, MA, ISBN: 978-0-87893-300-6.
2. Molecular Cell Biology (2012) 7<sup>th</sup> ed., Lodish, H., Berk, A., Zipursky, S.L., Matsudaira, P., Baltimore, D. and Darnell. J., W.H. Freeman & Company (New York).
3. Karp, G. 2010 Cell and Molecular Biology: Concepts and Experiments. 6 edition. John Wiley & Sons. Inc.
4. Alberts, B., Johnson, A., Lewis, J., and Enlarge, M. 2008 Molecular Biology of the cell. 5<sup>th</sup> ed., Garland Science (Princeton),
5. Becker, W.M., Kleinsmith, LJ, Hardin. J. and Bertoni, G.P. 2009 The world of the cell. 7<sup>th</sup> edition. Pearson Benjamin Ummings Publishing, San Francisco.

## **NAME OF COURSE COORDINATOR**

**RAKHI R C**

Assistant Professor,

Department of Biochemistry,

Gurudev Arts and Science College, Mathil.

Email: [rakhi@gasc.ac.in](mailto:rakhi@gasc.ac.in)

Mobile: 9544997406

# **DIPLOMA IN COUNSELLING AND PSYCHOTHERAPY**

**(Add on course of Social Work Department)**

Social Work Department of Gurudev Arts and Science College, launches Diploma in Counseling and Psychotherapy. The program was to equip candidates to pursue a career in counseling and psychotherapy. This will also strengthen the skills of those working as administrators, teachers, leaders, social activists/social workers and students etc. to respond effectively in conflicting situations/behaviors.

The program offers training in counseling and therapies spread under various courses such as research methodology, developmental psychology, family counseling, different therapies etc. and covers all foundation courses in psychology and counseling. The course includes practical training on counseling and therapies.

## **Objective of the Program**

The objective of the Diploma in Counseling and Psychotherapy is to equip the candidates with both theoretical knowledge and practice skills to identify, assess and intervene to help the clients to resolve their mental health issues.

## **Program Specific Outcomes**

The students who successfully complete the Diploma in Counseling and Psychotherapy will be able to:

1. Counseling to families and give psychotherapy.
2. Assess and develop counseling and psychotherapeutic intervention plans for the mental health issues of the clients.
3. Make effective counseling and psychotherapeutic intervention.
4. School counseling.
5. Conduct researches for the advancement of knowledge

## **Course syllabus**

### **Module 1**

1.1 COUNSELLING MEANING AND DEFINITION: - counseling, client, psychotherapy,

1.2 STAGES OF HUMAN DEVELOPMENT AND AREAS OF GUIDANCE,

1.2.1 Characteristics of Different Stages of Development (Physical, Cognitive, Emotional, Social, and Moral)

1.2.2 Problems of Childhood

1.2.3 Problems of Adolescence

1.2.4 Problems of Adulthood and the Aged

1.2.5 The Concept of Adjustment and Adjustment at Different Stages of Life

## Module 2

### 2. FUNDAMENTAL COUNSELLING SKILLS

2.1 The Client-Counselor Relationship The Counselor as a Role Model

2.2 The Counselor's Needs , Counselor Objectivity/Subjectivity

2.3 Emotional Involvement

2.4 Psychotherapy

## Module 3

### 3. COUNSELLING SPECIAL GROUPS

3.1 Destitute and Orphans

3.2 Delinquents

3.3 Drop-outs

3.4 Aids Patients

3.5 Drug Addicts and Alcoholics

3.6 Paedophiles

3.7 Homosexuals

3.8 Families

3.9 School children

3.10 Pre-Marital counseling

## ASSESSMENT and WEIGHTAGE of MARKS

ASSESSMENT	MARKS
Examinations	30
Assignment	10
Total	40

## Grading of the Program

Mark Range	Grade	Performance
90 above	A	Outstanding
80 to 89	B	Excellent
70 to 79	C	Very Good
60 to 69	D	Good
50 to 59	E	Satisfactory
Bellow 50	F	Need to Improve

Certificate will be issued those who have complete successfully.

Course Fee

Rs. 750/-

**Course Coordinator:**

Dhanya K V

9946216214

# Add on Course BSW 2020-2021 Counselling Psychology.

1	AISWARYA N.V	+	+	+	+	+	+	+	+	+
2	ANANYA . P	+	+	+	+	+	+	+	+	+
3	APARNA PAULITHAN	+	+	+	+	+	+	+	+	+
4	ARUN/EENDU K.V	+	+	+	+	+	+	+	+	+
5	AKSHAY VINOD	+	+	+	+	+	+	+	+	+
6	AMEEHA K.V	+	+	+	+	+	+	+	+	+
7	ANJANA P.P	+	+	+	+	+	+	+	+	+
8	ANJINISHA N.V	+	+	+	+	+	+	+	+	+
9	MANJUSHA B.K	+	+	+	+	+	+	+	+	+
10	AARADHYA THEJASWINI	+	+	+	+	+	+	+	+	+
11	TISHANU BISHU	+	+	+	+	+	+	+	+	+
12	NIKHIL KRISHNA	+	+	+	+	+	+	+	+	+

6/04/21

8/04/21

15/04/21

17/04/21

20/04/21

24/04/21

27/04/21

03/05/21

06/05/21

07/05/21

**B.S.W. Add on Course Examination, May 2021**  
**Gurudev Arts and Science College**  
**Mathil**  
**Diploma in Counseling and psychotherapy**

Time 2 Hours

Max marks: 30

**SECTION-A**

Answer any four questions in two or three sentences. Each question carries one mark

Write short notes on:

1. Intelligence
2. Learning
3. Emotions
4. Id
5. Forgetting
6. Counseling

**SECTION-B**

(4x1:4)

Answer any four of the following questions in not more than 50 words each.  
Each question carries one mark.

7. Memory-types
8. Define Psychotherapy.
9. Stages of human Development
10. What you meant by IQ.
11. What is reasoning?
12. School counseling

(4x1:4)

**SECTION - C**

Answer any four of the following questions in not more than 200 words each. Each question carries three marks.

13. What are the Problems of Adulthood?
14. What is motivation?
15. Explain Psychology as a science.
16. Discuss the Types of Motivation.
18. Discuss the Components of emotion
19. Problems of Adolescence

(4x3:12)

**SECTION - D**

Answer any two questions in less than 800 words. Each question carries eight marks.

20. Explain Drug Addiction and Alcoholics counseling?
21. Discuss the scope of Psychology?
22. Discuss The Client-Counselor Relationship The Counselor as a Role Model? (2x5:10)