

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)

GOBICHETTIPALAYAM – 638 453

VALUE ADDED COURSES

General Guidelines

Value Added Courses which help a particular individual to develop his/her skills in the chosen field of the study. Each course is mostly independent to each other.

Generally, the curriculum framed for the students in their respective degree program can not cover all areas of importance. It is important for any Higher Education Institute to supplement the curriculum to make students to excel their skills in different fields.

In order to provide an opportunity to students to develop interdisciplinary skills and to bridge the skill gaps, the college offers different Value Added Courses conducted by eminent teachers.

The objectives of Value Added Courses are:

- To improve the employability skills of students.
- To provide an opportunity to students to develop inter-disciplinary skills.

Guidelines:

- The students must enroll for a Value Added Course with the teacher concerned using the duly filled in registration form.
- Classes for a Value Added Courses are conducted beyond regular classes or during weekends or semester breaks.
- The course teacher/coordinator may invite experts from outside institutes to teach the students.
- The course can be offered only if there is atleast 20 students opting for a course.
- The students can opt the Value Added Course offered by any department/faculty with the consent of HOD of the student.
- The duration of the Value Added Course should be not less than 30 hours either by theory or in a combination of both theory & practical.
- The duration may be either within the semester or in the cluster of two consecutive semesters.
- The course teacher/coordinator shall be responsible for the maintenance of Attendance and Assessment Records pertaining to the students.
- Evaluation for the Value Added Course shall be internal. The Question Paper Pattern and mode of Assessment will be decided by the respective course teacher/coordinator.
- Passing requirement for Value Added Course shall be 40%.

- Students not securing passing minimum, should reappear for the assessment.
- The marks and grades obtained in Value Added Course will not be included for calculating the GPA.
- The marks obtained will be converted into corresponding letter grade.
O = 90% & above A = 80-89% B = 70-79% C = 60-69%
D = 50-59% E = 40-49% RA = less than 40%
- After completion of evaluation of the students the course teacher/coordinator must send a copy of mark and grade to COE office through Principal on or before the last working day of the semester. All the details pertaining to the course, like Registration, Attendance, Evaluation etc must be maintained by the course teacher/coordinator for future reference.

All the students who have successfully completed the respective Value Added Course shall be issued a separate certificate duly signed by the Authorized Signatories.

VALUE ADDED COURSES		
S.No.	Course Name	Page No.
1.	Ability Enhancement in Problem Solving Numerical Skills	6
2.	Advanced Spread Sheet	8
3.	An Introduction to Goods and Services Tax	10
4.	Angular JS	12
5.	Artificial Intelligence for Business Analyst	14
6.	Basics in Communication	16
7.	Botany Based Entrepreneurship	17
8.	Business and Finance	19
9.	Capacity building for graduates	21
10.	Chemistry of Modern Non-conventional energy sources	23
11.	Cloud Computing	25
12.	Computer for Competitive Exam	26
13.	Content Writing	27
14.	Creative Arts and Crafts	28
15.	Cultivation of Oyster Mushroom	30
16.	Cyber Law	31
17.	Data Visualization	32
18.	Data Analytics	33
19.	Detection of Adulterants in Food	34
20.	Developing logical thinking and reasoning skills	36
21.	Developing Real Time Applications of IoT with RaspberryPi	38
22.	Digital Marketing for Executives	40
23.	Digital Marketing	41
24.	E-Banking	42
25.	.jopay; fiy	44
26.	Export Documentation	45
27.	Flash	47
28.	Full Stack Development with MySQL & PHP	49
29.	Full Stack Development	50
30.	Green Marketing	52
31.	Hands on Training-FTIR & DRS-UV-VIS Spectroscopy	54

32.	Herbal Remedies	56
33.	Identification of Contaminants in food materials	57
34.	Insurance Practices	59
35.	Introduction to Arduino and Sensors	61
36.	iftpidg; nghUI;fSk; njhopy; KiwfSk;	62
37.	Maintenance and Servicing	63
38.	Mathematical Software	65
39.	Mathematics for Competitive Examinations	66
40.	Medical Coding	67
41.	Mind Spark: Aptitude and Reasoning	69
42.	Museology	70
43.	Networking with Routers & Manageable Switches	72
44.	Nutrition and Weight Management	73
45.	Clftpay;	75
46.	PC Software	76
47.	Personality Development	78
48.	Preparation of chemical reagents and their validation	80
49.	Printed Circuit Board Designing and Printing	82
50.	Professional English	84
51.	Professional Ethics	85
52.	Professional Well-being	87
53.	Programming with R	88
54.	Project Management	92
55.	Proof Reading and Editing	94
56.	Public Speaking	95
57.	React JS	97
58.	Remedial English	100
59.	Script Writing	102
60.	Securities Market	104
61.	Security Analysis	106
62.	Sericulture	108
63.	Social Media Marketing	109

64.	Soft Skills for Employability	111
65.	jkpoh; tsh;j;j moFf;fiyfs;	112
66.	UI/UX Design	113
67.	Web Design using NodeJS for Enterprise	115
68.	Yoga for Human Excellence	117
69.	Yoga Therapy	130
70.	Zoho Books	131
71.	ePq;fSk; nty;yhk;	136

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

**DEPARTMENT OF COMPUTER APPLICATIONS (UA)
VALUE-ADDED COURSE**

ABILITY ENHANCEMENT IN PROBLEM SOLVING NUMERICAL SKILLS

22VACA02

Total Hours: 30

Course Objective

The course aims

- To make students to understand basic concepts of numerical skills.
- To prepare students to understand the concepts of thinking ability.
- To Kindle the problem solving ability of the students.

Course Outcomes (CO)

- CO 1 Understand Various Simplification and fraction problems on ages.
CO 2 Gaining knowledge of various Arithmetic Series.
CO 3 It will enhance student's skill for Number series.
CO 4 It will enhance students problem solving skill.
CO 5 Students will be able to prepare for various public and private sector exams & placement drives.

SYLLABUS		
UNIT	CONTENT	HOURS
I	Simplification and Approximation: BODMAS, Square & Cube, Indices, fraction. Problems on Ages-Numbers-H.C.F and L.C.M of Numbers-Decimal Fractions.	6
II	Arithmetic Series: Percentage, Average, Partnership, Mixture and Alligation, Simple Interest, Compound Interest, Time and Work & wage, Pipe and Cistern.	6
III	Number Series: Missing Number series, Wrong number series, Probability, Permutation, and combination* .	6
IV	Percentage: Profit and Loss - Ratio and Proportion- Partnership. Chain Rule-Time and Work-Pipes and Cistern-Time and Distance-Problems on Trains.	6
V	Data Interpretation (DI): Table DI, Missing Table DI, Pie chart DI (single and multiple pie chart), Line chart DI (Single and multiple line), Bar chart DI, Mixed DI, Caselet (Simple table-based caselet, Venn diagram based caselet, Arithmetic based caselet)	6

*-**SELF STUDY**

TEXT BOOK:

1. R.S.Agarwal & Sultan Chand , “*Quantitative Aptitude*”, Chand and Company Ltd, New Delhi, 2023. (Unit I & II)
2. Abhijit Guha “*Quantitative Aptitude for Competitive Examinations*”, McGraw Hill Education, 6th Edition, 2016. (Unit III - V)

E-REFERENCES:

- <https://www.indiabix.com/aptitude/questions-and-answers/>
- <http://placement.freshersworld.com/aptitude-questions-and-answers/>

Mapping with Programme Specific Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	H	S	M	S	S
CO2	S	M	H	H	H
CO3	H	H	S	S	H
CO4	M	H	H	S	M
CO5	S	S	H	H	M

S - Strong; H - High; M - Medium; L – Low

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)
DEPARTMENT OF COMMERCE
VALUE ADDED COURSE
ADVANCED SPREAD SHEET
25VACO03

Total Hrs: 30 hrs

Course Objective

The course aims

- **Master Excel Basics:** Understand the interface, input data, and apply basic formatting techniques.
- **Learn Basic Formulas & Functions:** Perform calculations using basic functions (SUM, AVERAGE), logical functions (IF), and text functions.
- **Organize and Visualize Data:** Create and format tables, sort/filter data, and design simple charts.
- **Analyze Data with Pivot Tables & Advanced Functions:** Summarize data using Pivot Tables and use advanced functions like VLOOKUP, INDEX, and MATCH.
- **Apply Financial Analysis & Automate Tasks:** Use financial functions (PMT, NPV) and automate tasks with Macros for efficiency.

Course Outcomes (CO)

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

Knowledge Level	CO Number	Course Outcome
K1	CO1	Participants will learn to navigate Excel, enter and format data, adjust cells, and use basic tools like Format Painter.
K2	CO2	Participants will learn to use basic formulas, functions, cell referencing, number formatting, and remove duplicates for effective data management in Excel.
K3	CO3	Participants will learn to create and format tables, sort/filter data, create and customize charts, apply conditional formatting, and use data validation lists in Excel.
K4	CO4	Participants will be able to create and customize Pivot Tables, use lookup functions, and apply advanced referencing techniques in Excel.
K5	CO5	Participants will be able to use financial functions, perform depreciation and break-even analysis, and create and manage simple Macros for automation in Excel.

K1-Remember;K2-Understanding;K3-Apply;K4-Analyze;K5-Evaluate

SYLLABUS		
Unit	Content	No.of Hours
I	Introduction to Excel and Basic Data Management: Opening and saving files - Understanding the Ribbon, Tabs, and Worksheets - Basic data entry (text, numbers, dates) - Basic cell formatting (font, color, alignment) - Merging and wrapping text - Adjusting row and column size - Using Format Painter.	6

II	Basic Formulas, Functions, and Data Editing: Basic arithmetic operations (+, -, *, /) - Functions: SUM, AVERAGE, MIN, MAX - Logical functions: IF, AND, OR - Text functions: LEFT, RIGHT, CONCATENATE, LEN - Date and time functions - Introduction to cell referencing (relative and absolute) - Basic number formatting (currency, percentage) - Removing duplicates.	6
III	Working with Tables, Charts, and Conditional Formatting: Creating and formatting tables - Sorting and filtering data - Creating basic charts (Bar, Column, Pie) - Customizing chart titles and labels - Highlighting cells using conditional formatting - Creating data validation lists (drop-down menus).	6
IV	Pivot Tables and Advanced Functions: Creating and customizing basic Pivot Tables - Using Pivot Table functions to summarize data - Lookup functions: VLOOKUP, HLOOKUP, XLOOKUP - INDEX and MATCH functions - Advanced referencing: INDIRECT, OFFSET.	6
V	Financial Analysis, Macros, and Automation: Financial functions: PMT, FV, PV, NPV, IRR - Depreciation calculations (SLN, DB) - Break-even analysis using Excel - Introduction to Macros: What is a Macro? - Recording and running a simple Macro - Saving and assigning Macros.	6

<*-Self Study>

Reference Books:

1. **Title:** *Formulas and Functions in Microsoft Excel 2010* **Author:** Paul McFedries **Publisher:** Pearson **Edition:** Excel 2010.
2. **Title:** *Excel 2013 In Simple Steps* **Author:** Kogent Learning Solutions (**Dreamtech Press**) **Edition:** Excel 2013 **Publisher:** Dreamtech Press.
3. **Title:** Microsoft Excel Data Analysis and Business Modeling **Author:** Wayne L. Winston **Publisher:** Microsoft Press **Year of Edition:** 2021 (9th Edition).

E-references:

1. Here is the link to the PDF you mentioned:

Advance Excel Notes PDF

Mapping with Programme Specific Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	H	S	H	M
CO2	S	S	H	M	M
CO3	S	S	H	M	M
CO4	S	S	H	H	M
CO5	S	H	H	M	M

S-Strong; H -High; M-Medium; L –Low.

GOBI ARTS & SCIENCE COLLEGE (Autonomous),

GOBICHETTIPALAYAM.

DEPARTMENT OF COMMERCE (PROFESSIONAL ACCOUNTING)

VALUE-ADDED COURSE

Course Code:	23VAPA02	Course Title:
Total Hours:	30	AN INTRODUCTION TO GOODS AND SERVICES TAX

Course Objectives

The course aims

- To make the students to know about the basics of Indirect Tax.
- To enable the students to know about the basics of Goods and Services Tax.
- To make the students to learn about the structure and rates of GST.
- To make the students to understand about supply under GST.
- To make the students to know the registration process for GST and role of GST council.

Course Outcomes (CO)

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

Knowledge level	CO_s Number	Course Outcomes
K1	CO1	Have basic knowledge about Indirect tax.
K2	CO2	Understand the basics of Goods and Services Tax.
K3	CO3	Have knowledge about the structure of GST and GST rates.
K4	CO4	Understand the supply under GST and types of supply.
K5	CO5	Know about GST registration process and role of GST council.

K1 –Remember; **K2** – Understanding;**K3**– Apply;**K4** – Analyze; **K5** – Evaluate

Syllabus		
Unit	Contents	No. of hours
I	Basics of Indirect Tax: Meaning of Direct tax and Indirect tax- Characteristics of Indirect tax- Differences between Direct tax and Indirect tax- Merits and Demerits of Indirect tax.	6
II	Basics of Goods and Services Tax: Introduction- Concept of GST- Features of GST- Merits and Demerits of GST- Taxes Subsumed under GST.	6
III	Structure of GST and GST Rates: Structure of GST: CGST- SGST- IGST- UTGST. Rates of GST in India.	6
IV	Supply under GST: Concept of Supply- Types of Supply: Inter and Intra State Supply. Scope of Supply- Composite Supply, Mixed Supply, Taxable Supply and Exempted Supply.	6
V	GST Registration and GST Council: Persons Liable for Registration- Persons Not-liable for Registration- Compulsory Registration- GST Registration Procedure- GSTN (Goods and Services Tax Network). GST Council and its Functions.	6

<**Self study*>

Text Books:

1. Parameswaran. R. and CA. Viswanathan. P., Indirect Taxes, GST and Customs Laws, Kavin Publications, Coimbatore.
2. Mehrotra. H.C. and Agarwal. V.P., Goods and Services Tax and Customs Duty, Sahitya Bhawan Publications, Agra.
3. Reddy. T.S. and Hari Prasad Reddy. Y, Business Taxation (Good & Services Tax-GST).

Reference Books:

1. Gupta. S.S. Taxmann's GST – Laws and Practice, Taxmanns Publications, New Delhi.
2. Ca Vivek Kr Agrawal, GST Guide for Students: Making GST – Good & Simple Tax.

E-references:

1. https://www.icaai.org/post.html?post_id=16966
2. <https://cleartax.in/s/gst-law-goods-and-services-tax>

Mapping with Programme Specific Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	H	H	H	M	M
CO2	M	H	H	H	H
CO3	M	M	H	H	M
CO4	H	H	H	M	H
CO5	M	H	M	H	M

H-High, **M**- Medium, **L**- Low

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM**

Department of Information Technology

Value Added Course

Angular JS

22VAIT01

Learning Objectives:

- To make students to work practically in creating web pages.
- To make students practically aware of dynamic web pages.

SYLLABUS		
Unit	Content	No. of Hours
I	Introduction of Web Technology - Exploring Data Types & Functions - Logical Expressions.	6
II	Control Structures: Loops - HTML compilation and Angular Compilation- User-Defined Functions.	6

Text Book:

1. Brad Dayley, Brendan Dayley, “*Sams Teach Yourself AngularJS, JavaScript, and jQuery All in One in 24 Hours*”, Person, First Edition, 2015. (Unit I- II)

Reference Books:

1. Valeri Karpov, Diego Netto, Andy Channelle, “*Professional Angular JS*”, Wrox, First Edition, 2015.
2. Jeremy Wilken, “*Angular in Action*”, Manning Publications, First Edition, 2018.

E-references:

1. <https://5 Best AngularJS Books for a Modern 2022 - Books on Code>
2. <https://www.tutorialspoint.com/angularjs/index.htm>
3. <https://pepa.holla.cz/wp-content/uploads/2015/10/AngularJS-in-Action.pdf>

Angular JS - Practical

22VAITP1

Total No of Hours: 18

The course aims

- Understanding two-way (proportional) information authoritative
- Presenting route usefulness in web applications
- Understanding the compiler for building better and more propelled orders
- Utilizing the testing system (Jasmine BDD) to test the web applications
- Organizing the web application utilizing the vigorous index structure
- Organizing, composing, and ultimately sending the application

List of Experiments:

1. Write an Angular program to design the user login form
2. Write an Angular program to create a college website.
3. Write an Angular program to perform the user registration form.

Text Book:

1. Brad Dayley, Brendan Dayley, “*Sams Teach Yourself AngularJS, JavaScript, and jQuery All in One in 24 Hours*”, Person, First Edition, 2015. (Unit I- II)

Reference Books:

1. Valeri Karpov, Diego Netto, Andy Channelle, “*Professional Angular JS*”, Wrox, First Edition, 2015.
2. Jeremy Wilken, “*Angular in Action*”, Manning Publications, First Edition, 2018.

E-references:

1. <https://5 Best AngularJS Books for a Modern 2022 - Books on Code>
2. <https://www.tutorialspoint.com/angularjs/index.htm>
3. <https://pepa.holla.cz/wp-content/uploads/2015/10/AngularJS-in-Action.pdf>

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

**DEPARTMENT OF MANAGEMENT
VALUE-ADDED COURSE**

Artificial Intelligence for Business Analyst

22VABM03

Total Hours: 30

Course Objective

The Course Aims

To understand basic concepts and issues in using AI for Business Analysis and their application in Decision-Making and Business Management

Course Outcomes (CO)

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

Knowledge Level	CO Number	Course Outcome
K1	CO1	To understand the foundation of artificial intelligence
K2	CO2	To know the application of AI in business analysis
K3	CO3	To identify how to manage AI projects
K4	CO4	To learn how to leverage AI for business optimization
K5	CO5	To know ethical and legal considerations in AI

K1-Remember; K2 -Understanding; K3- Apply; K4-Analyze; K5-Evaluate

Unit	Content	No.of Hours
I	Foundations of Artificial Intelligence Overview of Artificial Intelligence - Evolution and Impact of AI in Business – Objectives of AI in Business Management - Ethical and Social Implications of AI - AI Adoption Trends in Industry – Case Studies on Companies Using AI.	6
II	Applications of AI in Business Analysis Role of AI in Business Decision Making – AI-Driven Predictive Analytics for Business Forecasting - Natural Language Processing (NLP) for Text Analysis and Customer Insights – AI-Powered Customer Relationship Management (CRM) Systems – Uses of AI in CRM.	6
III	Managing AI Projects Introduction to AI Project Management - Identifying Business Problems Using AI – Data Collection Methods Using AI - Identifying Solutions for Business Problems Using AI - Stakeholder Engagement and Communication in AI Projects - Risks and Challenges in Implementing AI Solutions.	6
IV	Leveraging AI for Business Optimization AI-Driven Process Automation - Supply Chain Optimization with AI - Personalization and Recommendation Systems - AI in Marketing and Sales Strategy – AI in Human Resource Management and Finance, – Advantages and Disadvantages of AI in Business Management.	6

V	Ethical and Legal Considerations in AI Understanding Bias and Fairness in AI - Privacy and Data Protection in AI Applications-Regulatory Compliance in AI-Driven Businesses-Responsible AI Governance and Accountability–Addressing legal and regulatory challenges in AI Adoption.	6
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Text Books:

1. Mastering The Artificial Intelligence (AI) Skills For Professionals, Company Secretaries, Chartered Accountants and Cost Accountants – CS & IP Rajesh Lohia - 2023
2. AI for Beginners: A Concise Guide to Chat GPT, Bard, Bing AI and DALL-E –JasimM-2023

Reference Books:

1. Business Analytics for Managers by Gert H. N.Laursen, Jesper Thorlund- 2019
2. Business Intelligence Strategy and Big Data Analytics-A General Management Perspective by Steve Williams - 2020

E-references:

1. <https://www.london.edu/lbs-online/business-analytics-in-the-age-of-generative>
2. <https://ifacet.iitk.ac.in/professional-certificate-course-in-ai-and-machine-learning>

GOBI ARTS & SCIENCE COLLEGE (Autonomous),

GOBICHETTIPALAYAM.

DEPARTMENT OF ENGLISH LITERATURE

VALUE-ADDED COURSE

BASICS IN COMMUNICATION

22VAEL01

Total Hours: 30

Listening & Speaking:

- a) Introducing self and others.
- b) Asking for Information.
- c) Giving Information.
- d) Giving and following instructions.
- e) Continuing discussions with connecting ideas.

Reading & Writing:

- a) Reading short articles – newspaper reports/fact based articles.
- b) Reading aloud: Reading an article/report.

Types of Reading: Extensive and Intensive Reading

- c) Reading a Prose passage.
- d) Reading a Poem.

e) Descriptive Writing:

Paragraphs: Paragraph Structure; Topic Sentence; Unity; Coherence.

Writing short paragraphs on general topics.

Writing a short descriptive essay of two to three paragraphs.

Note Taking.

Question Paper Pattern:

Total Marks: 50

Written - 40 Marks;

Answer any Four Questions out of Six. ($4 \times 10 = 40$)

Oral - 10 Marks: (Reading a Paragraph; Introducing self; Getting information; Following instructions)

GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.
DEPARTMENT OF BOTANY
VALUE-ADDED COURSE
Botany Based Entrepreneurship
21VABO03

Total Hours : 30

Course Objectives:

- To make the students to understand the scope of botany in global economy
- To foster the entrepreneurial skill among the students
- To impart a comprehensive understanding of botany based entrepreneurship

Course Outcomes:

- On the successful completion of the Course, the students will be able to Recognize the economic values of plants and microbes
- Discuss various opportunities in plant based business
- Demonstrate skills in the diversification of plant based products
- Design plant science based business plans

UNIT	CONTENT	HOURS
I	Mushroom cultivation (Oyster Mushroom) and Single cell protein (<i>Spirulina</i>); Floriculture : Fresh and dry flowers for aesthetics, Hydroponics; Plant Micro-propagation (Outline)	6
II	Value Added Products:Canning of fruits - process and equipment; fruit and vegetable based products (squash), Ready to Serve (RTS) (vegetable sauces, jam and jellies); Perfumes from Rose/Jasmine	6
III	Products from Drumstick and coconut; Natural dyes; Banana fibers; nutraceuticals; Alcoholic beverages (Wine and Beer); standards and quality management	6
IV	Organizations and Agencies:TIIC, DIC, NABARD, MICROSTAT, DBT, Sarvodaya – SIDCO – Micro Small and Medium Enterprises – support structure for promoting entrepreneurship – various government schemes.	6
V	Entrepreneurial Opportunities:Understanding a market and assessment, selection of an enterprise, business planning, and mobilization of resources, trademarks and copyright, Intellectual Property Rights, export and import license.	6

Reference Books:

1. Botany for B.Sc. Students – Entrepreneurship in Botany, Yashpaul Singh, S Chand Publishing
2. Kumaresan, V. Biotechnology, Saras Publication
3. Singh, B.D. Biotechnology, Kalyani Publishers
4. Kumar, H.D. Modern concepts of biotechnology, Vikas Publishing House Pvt. Ltd

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF COMMERCE

VALUE ADDED COURSE

Course Code:	21VACO01	Course Title:
Total Hours:	30	BUSINESS AND FINANCE

Course Objectives

The course aims:

- To make the students to know about Business and its objectives.
- To impart the knowledge about the various forms of business organization to the students.
- To enable the students to understand the concepts of fixed Capital, working capital and capitalization.

Course Outcomes (CO)

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

Knowledge Level	COs Number	Course Outcomes
K1	CO1	Learn about Business and its objectives.
K2	CO2	Know the various forms of Business organization.
K3	CO3	Understand the concepts of Fixed capital and working capital.
K4 & K5	CO4	Realise the importance of Capitalisation.

K1 – Remember; **K2** – Understand; **K3** – Apply; **K4** – Analyze; **K5** – Evaluate

Syllabus		
UNIT	Content	No. of Hours
I	Business: Meaning – Objectives - Social Responsibilities of a business - Classification - Qualities of a successful businessman - Business Vs Profession.	6
II	Sole proprietorship – Partnership firm – LLP – Joint stock company: Meaning – features – merits – demerits.	6
III	Finance - role of finance in an organization - Financial planning: Meaning - features - <i>significance</i> * - steps in financial planning.	6
IV	Capital: Meaning – Classification - factors determining capital requirements. Fixed capital: Meaning – features – sources. Working capital: Meaning – features – sources – <i>factors determining the size of working capital requirements</i> *.	6
V	Capitalization: Meaning – Overcapitalization - Under capitalization: Meaning – causes – effects - remedies.	6

<* - *Self Study*>

Text Books:

1. Reddy P.N., Principles of business organisation and Management, S.Chand & Co. Ltd.
2. Srivastava R.M. Essentials of Business Finance, Himalaya Publishing House.

Reference Books:

1. Bhushan Y.K., Fundamentals of Business Organisation & Management, Sultan Chand & Sons.
2. Gupta C.B., Business Organisation & Management, Sultan Chand & Sons.

E-references:

1. https://www.icai.org/post.html?post_id=15833
2. http://www.universityofcalicut.info/SDE/BBA_finance_investment_mgmnt.pdf
3. http://www.pondiuni.edu.in/storage/dde/downloads/finiv_sapm.pdf
4. <https://www.icsi.edu/media/webmodules/Financial%20and%20Strategic%20Management.pdf>

Mapping with Programme Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	S	H	S	M
CO2	S	H	M	H	S
CO3	S	S	H	M	H
CO4	H	S	H	M	S

S – Strong; H – High; M – Medium; L – Low

Question Paper Pattern (5 × 10 = 50 Marks)

Answer any FIVE Questions out of Eight Questions.

Each Question carries 10 marks.

GOBI ARTS & SCIENCE COLLEGE (Autonomous),

GOBICHETTIPALAYAM.

DEPARTMENT OF MANAGEMENT STUDIES

VALUE ADDED COURSE

CAPACITY BUILDING FOR GRADUATES

24VABA01

Course objective:

It aims to provide a conducive atmosphere for graduates to identify, develop and strengthen their skills and abilities, thereby making them better fit in an interconnected, diverse and fast changing world.

Course outcome:

On the successful completion of the course, students will be able to exhibit interpersonal skills in leading & driving a team towards achievement of organizational goals and contributing effectively to the environmentally sustainable society.

SYLLABUS

Unit I

Interpersonal communication: 6 Hours

Communication process- Self Awareness- Conversational Skills- Effective listening- Managing Conflict- Personal Branding- Role play -Games

Unit II

Leadership and Teambuilding: 6 Hours

Leadership Traits-Qualities -Selfconfidence -Team -Effective Team Building- Role play -Games

Unit III

Problem solving and Decision making: 6 Hours

Problem Identification-Resolving Techniques-Critical thinking-Decision making process-skills-Techniques-Emotional Intelligence-Activities-Games

Unit IV

Innovation and Entrepreneurship: 6 Hours

Innovation framework-Idea Generation-Startup Ecosystem-Entrepreneurial Skills-Qualities of successful Entrepreneur-Activities

Unit V

Environmental Social Governance (ESG): 6 Hours

Objectives -Importance -Implications of ESG-Sustainability and Climate change-Activities.

References Books:

1. Vasant Desai, Dynamics of Entrepreneurship Development Management, Himalaya Publishing,2014
2. Stephen P. Robins, Organizational Behavior, PHI Learning / Pearson Education, Edition 17, 2016.
3. UdaiPareek, Understanding Organizational Behaviour, 3rd Edition, Oxford Higher Education, 2011.
4. Koontz & Wehrich, Essentials of Management, Tata McGraw Hill,2017
5. V S P Rao, V Harikrishna – Management: Text and Cases, Excel Books,2017
6. Rear Admiral Sanjay Roye., Decoding ESG - A Comprehensive Guide to Environmental, Social and governance Principles, FirstEdition, 2024

E References:

1. <https://study.com/academy/lesson/decision-making-skills-techniques.html>
2. <https://nptel.ac.in/courses/110105033> 2.
3. https://onlinecourses.swayam2.ac.in/cec20_mg03/preview
4. <https://www.mooc-list.com/tags/organizational-behavior>
5. <https://www.theforage.com/blog/skills/decision-making-skills>
6. <https://corporatefinanceinstitute.com/resources/esg/esg-environmental-social-governance/>

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM**

**Department of Chemistry
Value Added Course**

Chemistry of Modern Non- conventional energy sources

22VACH04

The course aims

- Students will be able to gain knowledge about the renewable energy.
- To study the classification of batteries.
- Students will enhance their knowledge towards the Chemistry Fuel Cells and solar-thermal conversion.

Course Outcomes (CO)

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

Knowledge Level	CO Number	Course Outcome
K2	CO1	Classify the types of renewable Energy.
K2	CO2	Explain Solar-thermal conversion process and study of Solar cell Materials.
K1	CO3	Describe the types of primary batteries principle and application.
K3	CO4	Relate secondary battery materials and working principle.
K3	CO5	Apply the Materials for fuel cells.

K1 - Remember; K2 - Understanding; K3 - Apply; K4 - Analyze; K5 - Evaluate

SYLLABUS		
Unit	Content	No. of Hours
I	Basics of types of Renewable Energy: Solar, Wind, Biomass, Geothermal, Battery and Fuel Cell-Energy Generation and Storage-Principles in device operation and Materials aspects.	6
II	Chemistry of Solar Energy: Basic concepts of Solar Energy-working principles-Introduction to photovoltaics of various types-Solar-thermal conversion process-Solar cell Materials-different types.	6
III	Primary Battery: Basic concepts of primary batteries- Applications-alkaline, aluminium-air, magnesium, nickel-oxyhydroxide, zinc-carbon and zinc chloride.	6
IV	Secondary Battery : Concepts of secondary batteries- working principles and Application- Lead-Acid, Ni-Cd Li ion, lithium-sulphur, Aluminium ion, Calcium, Glass.	6

V	Fuel Cells: Types of fuel cells-Applications Proton exchange membrane, Alkaline, Phosphoric acid, Solid oxide, molten carbonate. Clean up and storage of fuel cells.	6
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Text Books:

1. Tiwari, G.N., and Ghosal, M.K, Renewable Energy Resources in Basic Principles and applications, Narosa Publishing House, 2007.
2. Non-Conventional Energy Sources, G.D.Ray, Khanna Publications.
3. Non-Conventional Energy Resources, B. H. Khan, The McGraw Hill Publication
4. Khan, B.H., Non-Conventional Energy Resources, TMH, 2nd Edition, New Delhi, 2009.
5. Engineering chemistry, Dr.A Ravikrishnan, sri krishna Publication.

Reference Books:

1. J. Jensen and B. Sorensen, Fundamentals of Energy Storage, John Wiley, NY,1984.
2. M. Barak, Electrochemical Power Sources: Primary and Secondary Batteriesby, P. Peregrinus, IEE, 1980.
3. P.D.Dunn, Renewable Energies, Peter Peregrinus Ltd, London, 1986.
4. B.Viswanathan and M. A. Scibioh, Fuel Cells-Principles and Applications,University Press, 2006.
5. Hart, A.B and G.J.Womack, Fuel Cells: Theory and Application, Prentice Hall, NewYork, 1989.
6. Hydrogen and Fuel Cells: A comprehensive guide, Rebecca Busby, Pennwell corporation(2005)
7. Hydrogen and Fuel Cells: Emerging Technologies and Applications, B.Sorensen,Academic Press (2012).

E-References:

1. <https://www.twi-global.com/technical-knowledge/faqs/renewable-energy>
2. <https://www.chemistryworld.com/renewable-energy/1506.tag>

Mapping with Programme Specific Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4
CO1	S	H	S	S
CO2	S	H	S	H
CO3	H	S	M	H
CO4	H	S	H	S
CO5	H	S	S	M

S - Strong; H - High; M - Medium; L - Low

GOBI ARTS & SCIENCE COLLEGE (Autonomous)
GOBICHETTIPALAYAM
DEPARTMENT OF COMPUTER SCIENCE

VALUE ADDED COURSE

CLOUD COMPUTING

23VACS05

Instruction Hours: 30 hours

Total Marks: 50

Course Objective

The course aims

- To learn the types and models of Cloud Computing.
- To know about advantages and applications of Cloud Computing.
- To expose the students to frontier areas of Cloud Computing.

UNIT	DESCRIPTION	HOURS
I	Types of Cloud Computing, Cloud Computing Architecture, Cloud Computing infrastructure, Advantages of Cloud Computing.	8
II	Cloud service models: IaaS PaaS SaaS, Virtualization, Cloud Service Providers (CSP), Real world applications of Cloud Computing, Examples of Various cloud hosted Applications and case studies.	8
III	Introduction to Amazon Web Services: AWS Cloud concepts, AWS services and security, Introduction to Azure.	8

Text Book:

Kirk Hausman, Sisan L.Cook, Telmo Sampaio, "Cloud Essentials Exam Study Guide", First Edition, Wiley India Pvt. Ltd., New Delhi, 2013.

Reference Books:

1. Kailash Jayaswal, Jagannath Kallakurchi, Donald J.Houde, Dr. Deven Shah, "Cloud Computing Black Book", First Edition, Dreamtech press, 2014.
2. Barrie Sosinsky, "Cloud Computing Bible", First Edition, Wiley, 2011

E-references:

1. https://en.wikipedia.org/wiki/Cloud_computing
2. <https://www.investopedia.com/terms/c/cloud-computing.asp>

Question Paper Pattern: (5 × 10 =50 Marks)

END OF SEMESTER EXAMINATIONS (EOS): Either or choice Five questions.

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM**

**Department of Computer Science
Value Added Course**

Computers for Competitive Exam

22VACS03

The course aims

- To introduce the computer.
- To understand the Computer Language and Computer Securities.
- To obtain computer knowledge for various competitive exams.

Introduction to Computer: Computer History-Generation of Computer-Computer as a System-Characteristics of Computer-Types of Computer based on Electronic Signal, Configuration and size-Personal Computer and types- Components of Desktop Computer.

Computer Language and its type: Low Level Languages-High Level Languages-Some famous programming language inventors- Programming in C-Different between Java and C++.

Computer Security, Cyber Crimes and Laws: Computer Security- Types of Threats- Computer Virus-Types of Virus-Some Famous & Worst Computer Virus- Anti Virus Software-Computer Crime.

Text Book:

Er. S. R. Behera, “Computer Awareness Objective and subjective”, B. K Publications Pvt. Ltd, Second Edition, 2015.

Reference Book:

Amit Kumar Verma, “Objective- Computer Awareness for Competitive Exams”, Vee Kumar Publications Pvt. Ltd, First Edition, 2007.

E-references:

1. <https://www.gktoday.in/quizbase/computer-awareness-for-ibps-banking-examinations>
2. <https://www.scientecheasy.com/2021/09/computer-gk.html/>
3. <https://careericons.com/computer-mcq/>

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)

DEPARTMENT OF ENGLISH

VALUE ADDED COURSE

CONTENT WRITING

25VAEN04

Total Hrs: 30 hrs

Course Objectives

- To develop Writing skill for online content
- To understand target audience and create specific content
- To Learn SEO principles for effective content
- To apply innovative summaries and headlines

Course Outcome

Knowledge Level	CO Number	Course Outcome
K1	CO1	Familiarize with high quality content
K2	CO2	Understand Content market strategies
K3	CO3	Analyze SEO Principles and techniques
K4	CO4	Appreciate the various kinds
K5	CO5	Enhance career opportunities in content writing

SYLLABUS

Unit	Content writing
I	What is Content Writing, Scope of Content Writing, Role of Content Writers, Writing Style
II	Kinds of Content writing Case study, Articles, Website Content, Infographics, Social Media, E-books, SEO, Blog Writing
III	Process of Content Writing Research, Ideation and Structuring, Editing, Proof reading, Focus on Language, Identity Audience, Improving readability
IV	Visual and Interactive Content Images, Screenshot, Video, Memes, GIF, Quizzes, Polls, White paper
V	Plagiarism and Copyright Definition – Plagiarism, Copyright, Types, How to write without Plagiarism

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)

Career Guidance & Placement Cell

Value Added Course

CREATIVE ARTS AND CRAFTS

25VAPC02

Instruction Hours: 30 Hours

Course Objective:

1. To enhance Students' understanding of tools, techniques, and materials required for various crafts and their practical applications.
2. To inspire Students to explore the cultural and contemporary significance of art forms and integrate them into their personal creations.
3. To cultivate creativity, innovation, and problem-solving abilities in artistic endeavors.

Unit 1: Resin Art - Crafting Wonders with Resin

6 Hours

Exploration of Resin Art - Types of Resin: Epoxy and Ultra violet- Safety Measures and Equipment - Mixing and Pouring Techniques - Creating Resin Jewelry - Resin Art Projects: Coasters, Key chains, Trays - Troubleshooting and Finishing Touches

Unit 2: 3D Casting & Silicone Mold Making - Molding the Future

6 Hours

Foundations of 3 Dimensional Casting and Silicone Molds - Materials and Tools Required - Designing and Creating Molds - Casting Techniques for Different Materials - Creating Decorative and Functional Items - Safety Precautions - Troubleshooting and Finishing Techniques

Unit 3: Shadow Box Miniature Frame Making - Frames that Tell Stories

6 Hours

Introduction to Shadow Boxes and Miniature Frames - Tools and Materials Needed - Designing and Planning Your Shadow Box - Creating Miniature Elements - Arranging and Assembling the Frame - Adding Personal Touches - Preserving and Displaying Creation

Unit 4: Mehendi - The Art of Henna

6 Hours

Essentials of MehendiArt - Tools and Materials for Mehendi - Preparing Mehendi Paste - Basic Mehendi Designs and Patterns - Advanced Mehendi Techniques - Mehendi Application on Hands and Feet - Tips for Long-lasting Mehendi

Unit 5: Punch Needle Art - Stitching Your Imagination

6 Hours

Overview of Punch Needle Art - Tools and Materials for Punch Needle - Basic Punch Needle Stitches - Creating Patterns and Designs - Working on Different Fabrics - Finishing and Preserving the Artwork - Troubleshooting and Tips for Beginners

Course Outcome:

1. Students will gain foundational knowledge of different art forms and confidently apply crafting techniques.
2. Students will demonstrate the ability to design and complete unique, high-quality craft projects.
3. Students will be able to combine creativity and technical skills to express their artistic vision.

Reference Books

1. The Art of Resin Jewelry by Sherri Haab - A comprehensive guide to creating resin-based jewelry and crafts.
2. Mold Making and Casting Handbook by Dominic Noble - A detailed resource for 3D casting and mold-making techniques.
3. Shadow Box Art: Creating Miniature Worlds by Barbara Matthiessen - A guide to designing and assembling shadow box frames.
4. Mehndi: The Timeless Art of Henna Painting by Loretta Roome - A classic book on Mehendi design and cultural significance.
5. Punch Needle: Master the Art of Punch Needling by ArounaKhounnoraj - A beginner-friendly book on punch needle art.

E - References

1. **Creative Book** (<https://www.creativeboom.com/resources/50-of-the-latest-art-crafts-design-and-photography-books-to-inspire-you/>) - A collection of the latest books on art, crafts, and design to inspire creativity.
2. **Goodreads Craft Books List** (https://www.goodreads.com/list/show/4137.Best_Craft_Books) - A curated list of the best craft books for various artistic needs.
3. **Domestika Blog** (<https://www.domestika.org/en/blog/7554-150-best-art-design-and-craft-books-to-spark-your-creativity>) - A compilation of 150 art, design, and craft books to spark creativity.
4. **Cambridge Handbook of Creativity** (<https://www.cambridge.org/core/books/cambridge-handbook-of-creativity-across-domains/creativity-in-craft/7E51AE7AC977C4F7C3B99CF95B1F6D15>)- A scholarly resource exploring creativity across domains, including crafts.
5. **REB Creative Arts Teacher's Guide** (https://elearning.reb.rw/pluginfile.php/14954/mod_resource/content/1/Creative%20Art%20Music%20TG.pdf) - A guide for implementing creative arts in educational settings.

Scheme of Examination

Total Marks:50

Practical Assessment Process: (Offline Exam)

1. Create Shadow box miniature frame using Resin, 3D Casting and design it with punching needle work on given theme. - **40 Marks (4 days)**
 - Resin creation – 1 day
 - 3D casting – 1 day
 - Punch needle work – 1 day
 - Shadow box making with the above combination – 1 day
2. On the spot theme-based topic for Mehendi design for single hand front or back. - **10 Marks (1 hour)**

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

Department of Botany

Value Added Course

CULTIVATION OF OYSTER MUSHROOM

21VABO01

Instruction Hours: 30 Hours

Total Marks: 50

Medium: English

SYLLABUS		
Unit	Content	No. of Hours
I	Introduction and history of mushrooms; Structure of mushroom; List of edible and poisonous mushrooms.	03
II	Different substrates used for the cultivation of mushroom; Preparation of spawn:- Preparation of mother culture and spawn; Storage of spawn.	06
III	Mushroom cultivation technique: Sterilization of substrate (Paddy straw); Preparation of compost (Polybag Method); Structure and maintenance of mushroom cottage.	06
IV	Spawning of the compost; Incubation; Disease management; Harvesting; Storage and Marketing of mushroom.	05
V	Utilization of spent mushroom substrate; Medicinal and nutritional values of mushrooms; Delicious recipes of mushrooms.	04

Demonstration: (6 Hours)

References:

1. Vashishta, B. R. Fungi, S.Chand & Co.
2. Nita Bhal, Hand Book on Mushrooms, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
3. Brig. Harmander Singh, Mushroom – The Art of Cultivation, Sterling Publishers Pvt. Ltd., New Delhi.

End of Semester Examinations (EOS):

Question Paper Pattern (5 × 10 = 50 Marks)

Answer any FIVE Questions out of SEVEN Questions (Open Choice).

Each unit must carry ONE Question but not more than TWO Questions (Q. No.: 1 - 7).

**GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)
DEPARTMENT OF COMMERCE (BI & IT)**

VALUE ADDED COURSE

CYBER LAW

25VABI03

Total Hrs: 30 hrs

Course Objectives:

- To understand the basic concepts of Cyber Law.
- To know the importance of Cyber Law.
- To Enrich the knowledge about Intellectual property Right .

SYLLABUS		
Unit	Content	No. of Hours
I	Cyber Law: Introduction- Scope, Importance, Need of cyber law. Role of cyber law. Security aspects of cyber law: Introduction-digital signature, distinction between Electronic and Digital signature.	6
II	Intellectual property aspects in cyber law: Introduction - WIPO, WIPO Functions- Evidence aspects in cyber law- Types of evidence under Indian evidence Act,1872.	6
III	Criminal aspects in cyber law: Crime, computer crime, Classifications of cyber crime, Need for cyber crime law, Strategy for prevention of computer crime.	6
IV	Information Technology Act,2000: Introduction, scope, Features of IT Act, Advantages, E-Governance: Introduction - Objectives.	6
V	Application of copyright Act,1957: Introduction- Features – Rights of copyright holder. Intellectual property Right: Intellectual property Right in India- Advantages.	6

Text Book:

1. **Cyber Law**, Dr.P.Rizwan Ahmed, Magham publications.

Reference book:

1. **Cyber Laws and IT Protection**, Harish Chander, PHI Learning Private Limited.

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)
DEPARTMENT OF COMMERCE (CA)
VALUE ADDED COURSE
DATA VISUALIZATION
25VACC02

Total Hrs: 30 hrs

Course Objectives

- Provide an understanding of data visualization principles and their importance in decision-making.
- Develop skills to create interactive dashboards, reports, and visualizations.

Course Outcome

- Understand the fundamentals of data visualization and its role in business intelligence.
- Connect multiple data sources to create meaningful insights.

SYLLABUS
<ol style="list-style-type: none">1. Construct a tree map, create appropriate hierarchical views and explore the data.2. Construct an Excel file and create a bar chart version showing the same hierarchy as the tree map, coloring it to emphasize similar results.3. Create a dashboard to find insights that improve employee recruitment, satisfaction and retention.4. Create visualization to show the Pareto chart analysis.5. Make a visualization showing the largest number of profits in product category.6. Create visualization to show the most calls at a specific time block.7. Create visualization using grouping and subgrouping functions.8. Make a visualization that enables to identify the best employee of the month.9. Visualize the product usage patterns and trends.10. Make a dashboard that allows online sellers to keep track of key metrics for optimizing their online store.

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM**

Department of Computer Science

Value Added Course

Data Analytics

22VACS04

The course aims

- To introduce the excel for data analytics.
- To understand the process of cleansing, transforming, and analyzing raw data.
- To learn skills for creating and deploying data analytics reports.

Introduction to the Data Analytics using Excel: Perform calculation in Excel-Data tab, sorting, Filter, Grouping, UnGrouping, SubTotal-Data analysis solver add-ins- Generating Random Numbers.

Sampling: Random and systematic-Descriptive Statistics-**Predictive Analytics:** Forecasting-Exponential Smoothing, Moving Average and Linear Regression.

Text Book:

Hansa Lysander Manohar, “Data Analysis and Business Modeling using Microsoft-Excel”, PHI Publishing, First Edition, 2017.

Reference Books:

David Whigham, “Business Data Analysis using Excel”,Oxford University Press, First Edition, 2007.

E-references:

1. <https://www.simplilearn.com/tutorials/excel-tutorial/data-analysis-excel>
2. <https://www.analyticsvidhya.com/blog/2021/11/a-comprehensive-guide-on-microsoft-excel-for-data-analysis/>
3. <https://www.excel-easy.com/data-analysis.html>

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF CHEMISTRY

VALUE ADDED COURSE

Course Code:	21VACH02	Course Title:
Total Hours:	30	DETECTION OF ADULTERANTS IN FOOD

Course Objectives:

To impart practical knowledge to detect the common adulterants in food stuffs.

Unit	Content	No. of Hours
1	Adulteration – types of adulterants – contamination of milk, wheat, rice, dhal, butter, ghee adulterants – Detection of adulterated foods by simple analytical techniques– Food flavours – esters, aldehydes and heterocyclic compound - Food additives – artificial sweeteners – saccharin – cyclamate and aspartame – Food colours – Emulsifiers and stabilizers – Antioxidants – Preservatives - leavening agents – Baking powder- yeast- taste makers- MSG, vinegar – Food Laws and standards – Food Safety – Indian Food Regulatory Regime – International standards – Importance of AGMARK and BIS.	15
2	LIST OF EXPERIMENTS: Detection of starch in milk. Detection of neutralizers in milk. Detection of mashed potato in ghee/butter. Detection of prohibited colours in edible oil. Detection of sugar solution in honey. Detection of washing soda in sugar. Detection of chalk powder in sugar or wheat powder. Detection of chalk powder in asafoetida. Detection of Sodium bicarbonate in Jaggery. Detection of hidden insect infestation (Ergot) in food grains. Detection of saw dust in chilli powder Detection of coal tar dyes (metanil yellow) in food stuffs or turmeric powder Detection of mineral acid (other than phosphoric acid) in soft drinks. Detection of coal tar dyes (Malachite green) in green vegetables/peas Detection of Rhodamine B in ragi and processed foods (sweets/syrup).	15

Course Outcomes

At the end of the Course, the Student will be able to:

CO1	Recognize the colors and adulterants present in foods and beverages (K1)
CO2	Classify the food additives and discuss their functions (K2)
CO3	Analyze the food products and identify the adulterants (K4, K1)
CO4	Identify the glassware commonly used in the Chemistry laboratory and know how to properly utilize the glassware (K1)

K1 - Remember; **K2** - Understanding; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate

Mapping with Programme Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	S	H	S	S
CO2	S	H	M	H	M
CO3	H	M	M	S	H
CO4	S	M	S	M	S

S - Strong; H - High; M - Medium; L - Low

REFERENCE BOOKS:

1. G. D. Gem Mathew, CHEMISTRY IN EVERYDAY LIFE.
2. Srilakshmi. B., FOOD SCIENCE (4th edition), New Age International Pvt Ltd.
3. Jesse P. Battershall, FOOD ADULTERATION AND ITS DETECTION.
4. Swaminathan. M., FOOD SCIENCES AND EXPERIMENTAL FOODS, Ganesh and Company.
5. Website: <https://fssai.gov.in/dart/>

Question Paper Pattern:

The Question Paper is to be divided into THREE Sections.

Section-A Carries 20 Marks, Section-B Carries 20 Marks and Section-C Carries 10 Marks.

Section-A: Contains 10 Short answer Questions. ($10 \times 2 = 20$)

(Q. No.: 1 to 10)

Section-B: Contains 6 Questions, out of which 4 Questions are to be answered. ($4 \times 5 = 20$)

(Q. No.: 11 to 16)

Section-C: Contains 2 Questions, out of which 1 Question is to be answered. ($1 \times 10 = 10$)

(Q. No.: 17 and 18)

GOBI ARTS & SCIENCE COLLEGE (Autonomous),

GOBICHETTIPALAYAM.

DEPARTMENT OF COMPUTER APPLICATIONS (UA)

VALUE-ADDED COURSE

DEVELOPING LOGICAL THINKING & REASONING SKILLS

23VACA01

Total Hours: 30

Course Objective

The course aims

- To make students to understand basic concepts of numerical problems.
- To prepare students to improve thinking ability.
- To develop the problem-solving skills of the students.

Course Outcomes (CO)

- CO 1 Understand Various Simplification problems on numbers and ages.
CO 2 Gaining knowledge of various Arithmetic Series.
CO 3 Enhancing students' skills of logical reasoning.
CO 4 Improving students verbal and nonverbal problem-solving skills.
CO 5 preparation for various public and private sector competitive exams for placements.

SYLLABUS		
UNIT	CONTENT	HOURS
I	Arithmetic aptitude -Problems in numbers- problems on HCF and LCM-Problems on ages-odd man out and series	6
II	Data interpretation -Table- charts-Pie Charts-bar charts-line charts	6
III	Logical reasoning -Number series- analogous letter & series logical problems- statements and arguments	6
IV	Verbal reasoning -Blood relation test- dice- cube-direction sense test- Ven diagrams	6
V	Nonverbal reasoning -Nonverbal analogy test- analytical reasoning <i>non-verbal series*</i>	6

*-SELF STUDY

TEXT BOOK:

1. R.S.Agarwal & Sultan Chand , "*Quantitative Aptitude*", Chand and company limited, New Delhi,2023

E-REFERENCES:

- <https://www.geeksforgeeks.org/quantitative-aptitude/>
- <https://www.javapoint.com/aptitude/quantitative>

Mapping with Programme Specific Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	H	S	M	S	S
CO2	S	M	H	H	H
CO3	H	H	S	S	H
CO4	M	H	H	S	M
CO5	S	S	H	H	M

S - Strong; H - High; M - Medium; L - Low

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF COMPUTER APPLICATIONS (UA)

VALUE-ADDED COURSE

Developing Real-Time Applications of IoT With Raspberry Pi

24VACA03

Total Hours: 30

Course Objective

The course aims

- To study and implement the Internet concept of things by the integration of various technologies.

Course Outcomes (CO)

- CO 1** Explain working principles of different technologies with IoT platforms.
- CO 2** Describe about the components of IoT, IoT architecture and core modules.
- CO 3** Demonstrate the process of IoT implementation in various applications.
- CO 4** Explain the various technologies behind IoT and industrial IoT
- CO 5** Implementation of IoT using different sensors to solve the real world problems.

SYLLABUS		
UNIT	CONTENT	HOURS
I	Introduction and definition to IOT - What is an IOT? - Explore the scenario for application of IOT Communication definitions Concepts - Capturing and Storing the data.	6
II	Programming Fundamentals with C using Raspberry Pi - Understanding the Raspberry Pi - Installing and Setting up the Raspberry Pi - Connecting the Raspberry Pi with devices - Program Structure in C - Basic Syntax - Data Types / Variables	6
III	Working with Raspberry Pi for data acquisition with IOT Devices - Understanding Sensors and Devices - Understanding basic electronic components and power elements - Understanding the Inputs from Sensors - Working with Temperature Sensors -Working with Ultrasound Sensor - Working with humidity sensor	6
IV	Working with Raspberry Pi for data acquisition with IOT Devices - Understanding the Outputs - Activating LED Lights	6
V	Programming Fundamentals with Web Applications for handling Data Communication from IOT Device	6

***-SELF STUDY**

TEXT BOOKS:

1. William Rowley, “RaspBerry Pi 3: How to Start: Beginners Guide Book”, Kindle Edition, 2017.
2. Michael Collier, Robin Shahan, “Fundamentals of Azure”, Microsoft Press, 2015, ISBN: 978-0-7356-9722-5

E-REFERENCES:

- <https://pressbooks.bccampus.ca/iotbook/back-matter/references/>
- <https://www.ibm.com/topics/internet-of-things>

Mapping with Programme Specific Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	H	S	M	S	S
CO2	S	M	H	H	H
CO3	H	H	S	S	H
CO4	M	H	H	S	M
CO5	S	S	H	H	M

S - Strong; H - High; M - Medium; L – Low

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

Department of Management

Value Added Course

DIGITAL MARKETING FOR EXECUTIVES

21VABM01

Instruction Hours: 30 Hours

Total Marks: 50

Course Aims:

- To understand Digital Marketing.
- To aware Digital tools.
- To access SEO and other Digital Platforms.

Learning Outcomes:

- Students will able to differentiate the advantage of Digital marketing over the Traditional marketing.
- To manage the Digital Channels.
- To make a SWOT analysis & Digital Marketing Plan.

SYLLABUS		
Unit	Content	No. of Hours
I	Introduction to Digital Marketing Principles of Digital Marketing, Digital Marketing Channels, Tools to Create Buyer Personal, SWOT.	06
II	Content Marketing Content Marketing Concepts & Strategies, Planning, Creating, Distributing & Promoting Content.	06
III	Search Engine Optimization Search Engine Optimization Fundamentals, Keywords and SEO Content Plan, SEO & Business Objectives, Writing SEO Content.	06
IV	Social Media Marketing Introduction, Major Social Media Platforms for Marketing, Developing Data-driven Audience & Campaign Insights Social Media for Business.	06
V	Digital Marketing Budgeting Digital Marketing Budget & Plan, Resource Planning, Cost Control.	06

Question Paper Pattern: (5 × 10 = 50 Marks)

Answer any FIVE Questions out of Eight Questions.

**GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)
DEPARTMENT OF COMMERCE (BI & IT)**

VALUE ADDED COURSE

DIGITAL MARKETING

25VABI04

Total Hrs: 30 hrs

Course Objectives:

- To understand the basic concepts of Digital Marketing.
- To know the importance of Digital Marketing.
- To Enrich knowledge of Social Media Platforms.

SYLLABUS		
Unit	Content	No. of Hours
I	Digital marketing: Introduction –Meaning - Techniques - Goals- Digital Marketing Advantages-Limitations - Legal and Regulatory Obligations- Digital Marketing Trends.	6
II	Digital Marketing Channels and Tools: Search Engine Marketing Platforms - Online advertising platforms-Online buying customer behaviour -Types of online advertisement-Social media advertising-Content marketing.	6
III	Web page and website: Website platforms-Domain name and Host-Creating website (important rules)-Web Banner-Web Directories - Types of Websites..	6
IV	Social media: Social media platforms - LinkedIn, Twitter, Instagram, YouTube Pinterest-Creating a Facebook account.	6
V	E-Mail Marketing: Blog Marketing - Viral Marketing -Podcasts and Vodcasts-Mobile marketing tools and platforms-Static Timing Analysis & Google Analytics Facebook Analytics. .	6

Text Book:

1. Anita Agarwal,Rahul Kotian,Tushar Agarwal, Vijayalakshmi Kannan E-Commerce and Digital Marketing Himalaya Publishing House Edition, 2016.

Reference book:

1. Seema Gupta Digital Marketing Mcgraw Hill 2020.

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF COMMERCE (PROFESSIONAL ACCOUNTING)

VALUE ADDED COURSE

Course Code:	21VAPA01	Course Title:
Total Hours:	30	E-BANKING

Course Objectives

The course aims:

- To familiarize the students with the e-banking transactions.
- To impart the knowledge about the various models for e-banking services to the students.
- To enable the students to learn various electronic fund transfer systems.

Course Outcomes (CO)

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

Knowledge Level	CO _s Number	Course Outcomes
K1	CO1	Learn various e-banking services.
K2	CO2	Know the electronic fund transfer systems.
K3	CO3	Understand the Unified Payment Interface.
K4 & K5	CO4	Realise the importance of e-certificates.

K1 – Remember; **K2** – Understand; **K3** – Apply; **K4** – Analyze; **K5** – Evaluate

Syllabus		
Unit	Contents	No. of hours
I	Electronic Banking: Meaning – merits – demerits - Traditional Banking Vs. E-Banking - E-Banking Transactions - Models for E-Banking.	6
II	Need for Computerization of Banking Sector - Automatic Teller Machine (ATM) - Electronic Fund Transfer (EFT) - Tele Banking.	6
III	Electronic Payment System: RTGS – NEFT - IMPS. UPI (Unified Payment Interface): <i>Gpay - Phonepe - Paytm</i> *.	6
IV	E-Cheque - E-Builder Solutions - Digital Certificates - Digital Signature - Importance - E- Log-in services.	6
V	E-Banking Security: Introduction - need for security - Cyber Crimes - Reason for Privacy - Tampering - Encryption - Data Encryption Standards (DES).	6

<* - *Self study*>

Text Books:

1. Ramkumar Sinha, - Banking and E- Services, Pacific books International, 2011.
2. Natarajan. S, and Parameshwaran. R, - Indian Banking, S. Chand & Co. Ltd, 2019.

Reference Books:

1. Vikas Taneja, and Sakshi Parashar,- E - Banking and E - Commerce, Alfa Publications, 2011.
2. Ravindra kumar, and Manish Deshpande, - E- Banking, Pacific books International, 2012.

E- References:

1. www.rtgs.org.in
2. www.imps.co.in
3. <https://bhim.org.in>

Mapping with Programme outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	S	H	S	M
CO2	S	H	M	H	S
CO3	S	S	H	M	H
CO4	H	S	H	M	S

S – Strong; **H** – High; **M** – Medium; **L** – Low

Question Paper Pattern (5 × 10 = 50 Marks)

Answer any FIVE Questions out of Eight Questions.

Each Question carries 10 marks.

கோபி கலை அறிவியல் கல்லூரி (தன்னாட்சி)

கோபிசெட்டிபாளையம்.

தமிழ்த்துறை

மதிப்புக் கூட்டுக் கல்வி

இதழியல் கலை

21VATM03

பாடவேளை நேரங்கள்: 30

மொத்த மதிப்பெண்கள்: 50

பாடத்திட்டம்		
அலகு	உள்ளடக்கம்	பாடவேளை நேரங்கள்
I	இதழியல் விளக்கம் : இதழியல் விளக்கமும் இலக்கணமும் - அறிவியல், கலையியல் - இதழியலின் சிறப்பிடம் - இதழ்களின் பணிகள் - இதழியல் விதிகள் - பத்திரிகைச் சுதந்திரத்தின் வரையறைகள்.	06
II	இதழிகளின் வகைகள்: கருத்து இதழியல் - பொழுதுபோக்கு இதழியல் - செய்தி இதழியல் - சிறப்பு வகை இதழியல் - அச்சமொழிக் காலம் - மக்கள் ஊடகக் காலம்	06
III	செய்திகள்-சேகரித்தல், எழுதுதல்: செய்தியாளர் - விளக்கமும் வகைகளும் - பணிகள் - பொறுப்புகள் - செய்தியாளரின் பண்புகள் - செய்தியாளரின் அடிப்படை விதிகள் - செய்தி விளக்கம்.	06
IV	செய்தி செம்மையாக்கம்: செய்தி மூலங்கள் - எழுதும்முறைகள் - தலைப்பு - உடல் - செய்தி சேகரிக்கும் முறைகள் - செய்தியாளர்களின் தகுதிகள் - செம்மையாக்கம்.	06
V	தமிழகத்தில் இதழியல் வளர்ச்சி: தொடக்ககாலம் - விடுதலை இயக்கக்காலம் - தற்காலம் - இதழ்கள் தொடங்குவதற்குரிய வழிமுறைகள்.	06

பார்வை நூல்கள்:

1. இதழியல் கலை - டாக்டர் மா.பா.குருசாமி.
2. இதழியல் மக்கள் தகவலியல் - முனைவர் சா.சுவரிமுத்து.

வினாத்தாள் அமைப்பு முறை:

எவையேனும் ஐந்து வினாக்களுக்கு விரிவான விடையளிக்க: (5 × 10 = 50)

அலகு - 1 முதல் அலகு - 5 வரை அமைந்துள்ள பாடங்களில் 8 (எட்டு) வினாக்கள் கேட்கப்பட்டு, அவற்றில் எவையேனும் 5 (ஐந்து) வினாக்களுக்கு விடையளிக்க வேண்டும்.

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

Department of Economics

Value Added Course - Export Documentation (Theory)

21VAEC01

Course Objective

The course aims

- To familiarize the students with the basic documents and policies involved in foreign trade.
- To learn transport documents, insurance documents, finance documents, banking documents and customs clearance of cargo.

Course Outcome

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

Knowledge Level	CO Number	Course Outcome
K1	CO1	To learn various Foreign Trade Documentations.
K2	CO2	To execute operations of Transport and Insurance Documentation.
K3	CO3	To claim Finance and Banking Documentation.

K1 - Remember; **K2** - Understanding; **K3** - Apply; **K4** - Analyze; **K5** – Evaluate

SYLLABUS

Unit	Content	No. of Hours
I	Foreign Trade Documentation: Importance of Foreign Trade Documentation – Basic Documents -Export Documentation- Export Licenses, Permits and Declaration- Import Documentation – Basic Documents –Import Licenses, Permits and Declaration.	10
II	Transport and Insurance Documentation: Shipping Bill – Bill of Lading – Types – Charter Party Bill of Lading –Air Way Bill- Inspection and Quality Control- Cargo insurance – Basic principles of Cargo insurance – Types of cover –Types of losses – Determination of premium – obtaining a cover and filling a Claim.	10
III	Finance and Banking Documentation: Letter of Credit –Types –The Process of Utilization of Letters of Credit –Drafts, Bills of Exchange and Acceptances – Opening a Documentary Credit.	10

Text Books:

1. Edward G. Hinkelman – International Trade Documentation.
2. M.D. Jitendra – Export Procedure and Documentation.
3. Khushpat S. Jain - Export Import Procedures & Documentation.

Reference Books:

1. M.I. Mahajan – A Guide on Export Policy and Documentation.
2. Nabhi Kumar Jain – How to Export.
3. R.L. Varshney and B. Bhattacharyya – International Marketing Management.

E-references:

1. <https://www.dgft.gov.in/CP/?opt=trade-notice>
2. <https://www.indiantradeportal.in/vs.jsp?lang=0&id=0,25,44>
3. <http://www.himpub.com/documents/Chapter2105.pdf>
4. https://unctad.org/system/files/official-document/sdtetlb20033_en.pdf

Mapping with Programme Specific Outcomes

CO \ PSO	PSO1	PSO2	PSO3
CO1	H	S	M
CO2	S	H	H
CO3	H	S	H

S – Strong; H – High; M – Medium; L - Low

Department of Economics

Value Added Course - Export Documentation (Practical)

21VAECP1

For Practicals: 50 Marks

List of Practicals:

1. Preparation of Invoice.
2. Drafting of shipping bill for export of duty free goods.
3. Preparation of Proforma Invoice.
4. Prescribe format on Airway Bill.
5. Drafting the purchase order.
6. Preparation of the Bill of Lading.

Question Paper Pattern

Value Added Course - Export Documentation (Theory)

For EOS Examinations: 50 Marks

Essay type questions of either or type involving answers in about three pages (5 x 10 = 50 Marks).

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF COMPUTER SCIENCE

VALUE ADDED COURSE

FLASH

21VACS02

Instruction Hours: 12 Hours

Total Marks: 50

Learning Objectives:

- To make a student improving designing skill.
- To make a student to develop a create of the project.

SYLLABUS		
Unit	Content	No. of Hours
I	Introduction to Flash: Flash files and Flash player – Flash Document, Saving Flash Document – Scenes – Layer – Frame – Panel – Tools – Working with Text.	6
II	Working with Color: The color palette – swatches panel – color mixer panel – Gradient Fill. Adding Animation to the objects: Introduction – Speed and Dimension – Adding & Deleting Frames – Creating Animation Frame by Frame – Create Button.	6

Text Books:

1. Shalini Gupta and Adity Gupta “FLASH 8 IN SIMPLE STEPS”, Dreamtech press, Edition- January 2008.
2. LP Editorial Board, “GUIDE TO FLASH MX 2004”, Law Point Publisher, 1st Edition, 2004.

Reference Books:

1. Joey Lott & Robert Reinhardt, “FLASH 8 ACTION SCRIPT BIBLE”, Wiley Publishing in USA, 2007.
2. Vishnu Priya Singh, “ADOBE / MACROMEDIA FLASH”, Computech Publication Ltd., 1st Edition, 2006.

E-references:

1. <https://w3schools.sinsixx.com/flash/default.asp.htm>.
2. [http://edutechwiki.unige.ch/en/Flash colors tutorial](http://edutechwiki.unige.ch/en/Flash_colors_tutorial).
3. <https://www.sfu.ca/~tutor/techbytes/Flash/fl1.html>.

Question Paper Pattern: (5 × 10 = 50 Marks)

END OF SEMESTER (EOS) EXAMINATIONS: Either or choice Five Questions.

FLASH – PRACTICAL

21VACSP2

Total No. of Hours: 18

The course aims:

- To make a student how to create a different object.
- Improving the students designing skill.

List of Experiments:

1. Create a flash movie for animate fish in a fish tank.
2. Create a flash movie for Natural Scene.
3. Create a flash movie for Blooming and Budding Flower using Button.
4. Create a flash movie for Masking an image and text.
5. Create a flash movie for Building Crash.
6. Create a flash movie for throw the ball in a basket.
7. Create a flash movie to design a Photo Album.

Text Books:

1. Shalini Gupta and Adity Gupta “FLASH 8 IN SIMPLE STEPS”, Dreamtech press, Edition – January 2008.
2. LP Editional Board, “GUIDE TO FLASH MX 2004”, Law Point Publisher, 1st Edition, 2004.

Reference Books:

1. Joey Lott & Robert Reinhardt, “FLASH 8 ACTION SCRIPT BIBLE”, Wiley Publishing in USA, 2007.
2. Vishnu Priya Singh, “ADOBE / MACROMEDIA FLASH”, Computech Publication Ltd., 1st Edition, 2006.

E-references:

1. <https://w3schools.sinsixx.com/flash/default.asp.htm>.
2. [http://edutechwiki.unige.ch/en/Flash colors tutorial](http://edutechwiki.unige.ch/en/Flash_colors_tutorial).
3. <https://www.sfu.ca/~tutor/techbytes/Flash/fl1.html>.

**GOBI ARTS & SCIENCE COLLEGE (Autonomous)
GOBICHETTIPALAYAM.**

DEPARTMENT OF COMPUTER SCIENCE

VALUE ADDED COURSE

FULL STACK DEVELOPMENT WITH MYSQL & PHP

23VACS04

Instruction Hours: 30 Hours

Total Marks: 50

Learning Objectives:

- To understand the syntax and semantics of the PHP Scripts and MYSQL Database.
- To develop and implement various types of dynamic web pages in the PHP Scripts.
- To apply the PHP Scripts in the appropriate applications.

SYLLABUS		
Unit	Content	No. of Hours
I	PHP : Introduction, Html, CSS, Javascript, PHP Variables, echo and print Statements, Data Types, Functions, PHP Constants, PHP Operators, PHP Conditional Statements, Loops, arrays.	6
II	Form handling, Validation, MYSQL Data types – table creation - insert, select, replace, update and delete commands – using where in your Queries and Simple Project.	6

Reference Books:

1. Jeremy Allen & Charless Hornberger “PHP, Apache, Mysql, Web development”, Wiley Publications, First Edition, 2006.
2. Vikram Vaswani, “A Beginner’s Guide PHP”, Tata McGraw Hill Education Pvt. Ltd., Fourth Edition, 2005.
3. Steven Holzner, “PHP: The Complete Reference”, Tata McGraw Hill Education Pvt. Ltd., First Edition, 2008.
4. Sheldon Moes, “Beginning MYSQL”, Wiley Publications, Fourth Edition, 2005.

E-references:

1. <https://www.w3schools.com>
2. <http://www.spoken-tutorial.org>
3. <https://www.studytonight.com>

Question Paper Pattern: (5 x 10 = 50 Marks)

END OF SEMESTER (EOS) EXAMINATIONS: Either or choice Five Questions.

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM**

Department of Information Technology

Value Added Course

FULL STACK DEVELOPMENT

22VAIT02

Learning Objectives:

Node.js and HTML are primarily used for **non-blocking, event-driven servers**, due to its single-threaded nature. It's used for traditional web sites and back-end API services, but was designed with real-time, push-based architectures in mind.

S.No	Topics Covered
1	Introduction to Hyper Text Markup Language(HTML5)
2	Introduction to Cascading Style Sheet(CSS), Bootstrap, JavaScript, JQuery, JSON
3	MongoDB
4	Angular

Detailed Syllabus of the Course:

Unit	Hyper Text Markup Language (HTML5)	No. of Hours
I	Introduction to HTML, HTML Basics, HTML Elements – HTML Semantic-Attributes, HTML Headings, Paragraph, Styles, Formatting, Quotations, Comments & Colour, HTML CSS, Links and Images, HTML Lists, Blocks, Classes-Responsive-Forms, Tables, Cascading Style Sheets:CSS3-Background color-Padding-Height-Width-Margin-Shadows-text-font-link-Tables-list-font.	7
II	Introduction to Bootstrap: Basics-Bootstrap CSS, JS, Introduction to JavaScript: jQuery, JSON MongoDB: Introduction ,MongoDB Create Database, Collections, MongoDB Write Operations-MongoDB Storage- Introduction to Angular: Building Blocks-Angular Modules.	7

Full Stack Developer – Practical

22VAIT02

Total No of Hours: 20

The course aims:

- Learn why server-side JavaScript is useful.
- Install Node.js.
- Learn how Node.js is architected to allow high scalability with asynchronous code.
- Create basic web applications with Node.js.
- Automate tasks with Gulp.
- Build an HTTP server using the core modules in Node.js.

List of Experiments:

- Install Node.js
- Learn how Node.js is architected to allow high scalability with asynchronous code
- Create basic web applications with Node.js, HTML and CSS
- Automate tasks with Gulp
- Build an HTTP server using the core modules in Node.js
- Use stream I/O to efficiently serve the web pages
- Create modules to organize the server
- Test the reliability of the application with unit tests
- Convert the application to an MVC framework using Express
- Interface to a PostgreSQL and MongoDB database and a web service

Text Books:

1. Angular js Java script And JQuery All In One Sams Teach Yourself
2. The Full Stack Developer, Chris Northwood, APRESS Publishing.

Reference Books:

1. Shannon Bradshaw, Eoin Brazil and Kristina Chodorow, MongoDB The Definitive Guide, 3rd Edition, Dec 2019, O'Reilly Media.
2. Prem Kumar, Web Design With HTML & CSS, 1st Edition, Oct 2021. Notion Press.
3. Lakshmi Kamala Thota, Learn Angular In 24 Hours, Mar 2020, White Falcon Publishing.

E-references:

1. <https://www.mongodb.com/docs/manual/reference/database-references/>
2. <https://brainstation.io/learn/html/reference>
3. <https://angular.io/>

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)
DEPARTMENT OF COMMERCE (PROFESSIONAL ACCOUNTING)
VALUE ADDED COURSE
GREEN MARKETING
25VAPA03

Total Hrs: 30 hrs

Course Objectives

The course aims

- To make the students to know about the concepts of green marketing
- To enable the students to know about the traditional marketing and green marketing.
- To make the students to learn about the sustainable marketing.
- To make the students to understand about Green products and life cycle Assessments
- To make the students to know the Green Supply Chain Management and Logistics

Course outcomes (COs)

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

Knowledge level	CO _s Number	Course Outcomes
K1	CO1	Have a basic knowledge about Green Marketing
K2	CO2	Understand the differences between traditional and Green Marketing
K3	CO3	Have knowledge about the Sustainable Marketing
K4	CO4	Understand the Green Products and Life Cycle Assessments
K5	CO5	Know about Green supply chain Management and Logistics.

K1 –Remember; **K2** – Understanding; **K3**– Apply; **K4** – Analyze; **K5** – Evaluate

Syllabus

Unit	Contents	No. of hours
I	Green Marketing: Definition -Objectives-Principles-Benefits-Growth-Advantages-Disadvantages.	6
II	Meaning of Traditional marketing-Difference between Traditional and green marketing -Triple Bottom Line Approach. Challenges and Misconception in Green Marketing.	6
III	Sustainable Marketing: Meaning -Principles -Objectives-Advantages -Disadvantages.	6
IV	Green Products: Meaning-Characteristics-development-Life Cycle Assessment (LCA) In green product development?	6
V	Green Supply Chain Management and Logistics: Meaning-Carbon foot print reduction and waste Management.	6

Text Books:

1. Robert Dahlstrom, Green Marketing Theory Practice and Strategies, Cengage Learning.
2. Verma P K, Green Marketing issues and Challenges, Yking Books.

Reference Books:

1. Monica Loss, Green Marketing, Global Vision Publishing House.
2. Michelle Carvill, Gemma Butler, Sustainable Marketing, Bloomsbury Business.

E-references:

1. https://www.researchgate.net/publication/348649689_Green_Marketing
2. https://www.researchgate.net/publication/351658998_GREEN_MARKETING_A_SUSTAINABLE_CHANGE_IN_MARKET

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF CHEMISTRY

VALUE ADDED COURSE

Course Code:	21VACH01	Course Title:
Total Hours:	30	HANDS ON TRAINING - FTIR & DRS-UV-VIS SPECTROSCOPY

Course Objectives:

- To impart basic practical skills in advanced instrumental analysis.
- Actual sample analysis and hands on training of instruments like FTIR and DRS-UV-Visible spectroscopy.
- To train students regarding calibration, assay and maintenance of the instruments.
- To equip students with professional skills required to work in industry.

Unit	Content	No. of Hours
1	<p>UV-Vis spectroscopy – basic theory with reference to radiation source, Optical materials, monochromators and detectors, Principles – the design of single beam and double beam spectrophotometers, beers law, Instrumentation, applications of UV-Vis to qualitative and Quantitative analysis.</p> <p>FT-IR spectroscopy – basic theory – force constant – factors influencing vibrational frequencies of a molecule – IR Spectrometer – preparation of samples – IR sources, detectors, beam splitter and Attenuated Total Reflectance (ATR) – Characteristic vibrational frequencies of alkanes, alkenes, alkynes, aromatic compounds, alcohols, ethers, phenols and amines.</p>	10
2	<p>LIST OF EXPERIMENTS:</p> <p>DRS-UV-Vis Spectrophotometry</p> <ul style="list-style-type: none"> ❖ Verification of Beer's-Lambert's Law and calculation of Molar Extinction Coefficient at different wavelength for KMnO_4 and $\text{K}_2\text{Cr}_2\text{O}_7$ using UV-Visible Single beam spectrophotometer. ❖ Concept of colour, colour coordinates, colour difference and its measurement using reflectance spectrophotometer. ❖ Estimation of organic pollutants in industrial effluents. ❖ Determination of band gap of semiconductor. ❖ Evaluation of charge transfer phenomena of metal complex. <p>FT-IR-Spectrometer</p> <ul style="list-style-type: none"> ❖ Identification of functional groups like ethyl alcohol, acetone, aniline, aldehyde and acetic acid using Infrared Spectroscopy. ❖ Determination of surface hydroxyl group for metal oxide. ❖ Micro sample analysis using Attenuated Total Reflection (ATR) and direct reflectance methods. ❖ Spectral interpretation. 	20

Course Outcomes

At the end of the Course, the Student will be able to:

CO1	Recognize interferences in chemical and instrumental analysis (K1)
CO2	Understand the theoretical and practical background of spectroscopy (K2)
CO3	Demonstrate knowledge of sampling methods for all states of matter (K3)
CO4	Comprehend the concept of and perform instrument and method calibration (K4)

K1 - Remember; **K2** - Understanding; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate

Mapping with Programme Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	S	M	S	H
CO2	H	M	S	H	M
CO3	M	H	M	S	M
CO4	M	S	H	M	S

S - Strong; **H** - High; **M** - Medium; **L** - Low

REFERENCE BOOKS:

1. D. A. Skoog, 1985, Principles of Instrumental Methods of Analysis, III Ed. Saunders College Pubs.
2. I. Vogel, 1976. Text Book of Qualitative Inorganic Analysis III Ed. ELBS.
3. Willard Merrit, Dean and Settle. 1986 Instrumental Methods of Analysis, VI Ed. CBS Pubs.
4. R. Gopalan, Analytical Chemistry, S. Chand &Co.

Question Paper Pattern:

The Question Paper is to be divided into THREE Sections.

Section-A Carries 20 Marks, Section-B Carries 20 Marks and Section-C Carries 10 Marks.

Section-A: Contains 10 Short answer Questions. ($10 \times 2 = 20$)

(Q. No.: 1 to 10)

Section-B: Contains 6 Questions, out of which 4 Questions are to be answered. ($4 \times 5 = 20$)

(Q. No.: 11 to 16)

Section-C: Contains 2 Questions, out of which 1 Question is to be answered. ($1 \times 10 = 10$)

(Q. No.: 17 and 18)

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

Department of Botany

Value Added Course

HERBAL REMEDIES

21VABO02

Instruction Hours: 30 Hours

Total Marks: 50

SYLLABUS		
Unit	Content	No. of Hours
I	Introduction and History of Medicinal plants; Source of medicines; Forms of medicines (Juice, Hot Water Extracts, Decoction; Powders; Latex; Resins; Soup, Herbal Salad, Chooranam, Pastes, Tablets, Kashayam, Infusions, Thylam, Legium, Parpam and Chendooram.	6
II	Preparation of Chooranam: Amukkara Chooranam, Athimathuram Chooranam, Multhanimatti Chooranam, Parangipattai Chooranam, Thirikadugu Chooranam, Thiripala Chooranam, Thoothuvalai Chooranam, Thalishathi Chooranam, Manjal karisalai Chooranam, Thoothuvalai Chooranam and Kuliya Chooranam.	6
III	Preparation of Some Common forms of Medicines:- Kasayam (Kabasura Kudineer kasayam; Nilavembu kasayam; Giniger Kasayam and Nithya Kalyani kasayam). Powder (Sirukurinjan powder and Kuliya powder).	5
IV	Thylam (Pungampattai; Kumari and Eucalyptus). Legium (Aswagandha; Vallarai and Nellikai). Parpam (Padigara parpam and Thanga parpam). Hot water Extract (Aduthoda Thalai; Tulsi; Karpuravalli; Thiruneetru pachilai and Aavaarai).	5
V	Remedies for some common Disorders:- Common Cold (Nilavembu Kashayam and Thirikaduku Chooranam). Asthma (Adathoda hot water extract). Tuberculosis (Tulsi hot water extract and Thoothuvalai Chooranam). Anticancer activity (Nithyakalyani Kashayam); Memory Stimulants (Vallarai legium), Stamina (Amukkara Chooranam), Diabetic disorders (Sirukurinjan Powder, Thiripala Chooranam), Indigestion disorders (Ginger kashayam and Thirikadugu Chooranam), Stomach disorders (Thalishathi Chooranam), Skin Diseases (Parangipattai Chooranam and Kuliya Chooranam), Anti Cholestrol (Thirikaduku Chooranam and Thiripala Chooranam).	8

References:

1. George D., Pamplona-Roger, M.D. Encyclopedia of Medicinal Plants (Education and Health Library).
2. Andrew Chevallier, 1996, Encyclopedia of Medicinal Plants, Dorling Kindersley Publication.
3. Andrew Chevallier, 2008, Eyewitness Companions; Herbal Remedies, Dorling Kindersley Publication.
4. Rosemary Gladstar's, 2012, Medicinal Herbs, Storey Publication.
5. Burke Lennihan, RN, 2014, The Practical Herbal Medicine Handbook, Althea Press, Berkeley, California.

End of Semester Examinations (EOS):

Question Paper Pattern (5 × 10 = 50 Marks)

Answer any FIVE Questions out of SEVEN Questions.

Each unit must carry ONE Question but not more than TWO Questions.

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM**

**Department of Chemistry
Value Added Course**

Identification of contaminants in food materials

22VACH05

The course aims

- To impart knowledge to detect the common adulterants in dairy products and other food stuffs.

Course Outcomes (CO)

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

Knowledge Level	CO Number	Course Outcome
K1	CO1	Recognize the food colors and adulterants present in food.
K2	CO2	Identify the adulterants in Dairy products.
K4, K1	CO3	Analyze the food products and identify the adulterants.

K1 - Remember; **K2** - Understanding; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate

SYLLABUS		
Unit	Content	No. of Hours
I	Food adulteration - types of adulteration in food - reason for food adulteration – preservatives - food colours - food additives - effect of food adulteration - role of food labs in testing and analysis - advancements in checking food adulteration – causes and side effects of adulteration - control of food adulteration - prevention of food adulteration	10
II	Identification of adulterants in dairy products-qualitative tests-detection of cane sugar, starch, cellulose, urea, ammonium compounds, sulphates, glucose, sodium chloride, nitrates, quaternary ammonium compounds, anionic detergents, formalin, hydrogen peroxide, boric acid and borates, salicylic acid.	10
III	Detection of adulterants in other food materials - Household test for turmeric powder, besandals, chilli powder, mustard seeds, ice-cream, black pepper, coffee powder, sugar, honey, bajrasago, cloves, common salt, green peas, green chilli and green vegetables, sweet potato, coconut oil.	10

Reference Books:

1. Morris.B. jacobs-The chemical analysis of food & Food products ,1999, 3rd Edition - CBS Publication & Distributors Pvt .Ltd
2. P.K. Ghatak& A.K. Bandyopadhyay-Practical dairy chemistry kalyani publisher-2007
3. Mayer L.H-Food chemistry,1987,FirstEdition,CBS Publishers

E-References:

1. Website: <https://fssai.gov.in/drat/>
2. <https://www.editorji.com>
3. <https://www.storypick.com>
4. <https://foodsafety.delhi.govt.nic.in>

Mapping with Programme Specific Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	S	H	S	S
CO2	S	H	M	H	M
CO3	H	M	M	S	H
CO4	S	M	S	M	S

S - Strong; H - High; M - Medium; L - Low

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF COMMERCE (BANKING & INSURANCE)

VALUE ADDED COURSE

Course Code:	21VABI01	Course Title:
Total Hours:	30	INSURANCE PRACTICES

Course Objectives

The course aims:

- To impart the basic principles of insurance.
- To acquire the knowledge about the various types of insurance.
- To offer ideas to become an Insurance agent.

Course Outcomes

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

Knowledge Level	CO Number	Course Outcomes
K1	CO1	Understand the various basic principles of insurance.
K2	CO2	Gain the knowledge on the types of Insurance.
K3	CO3	Enhance the skills relating to become an agent.
K4 & K5	CO4	Develop the knowledge on settlement of policy claims.

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate

SYLLABUS		
Unit	Contents	No. of Hours
I	Insurance: Meaning – Nature – Significance – Principles – <i>Insurance as a social security tool*</i> - Disclosure – Contribution – Claims and Recovery.	6
II	Life Insurance: Meaning – need – role - principles. - Types of Life Insurance policies: Whole Life – Endowment – Money back policy.	6
III	General Insurance: Fire Insurance: Nature – Principles - Kinds of Policies. Marine Insurance: Nature – Principles - Kinds of Policies – <i>Important Clauses in Marine Policies*</i> – Marine Losses – Group Insurance.	6
IV	Procedures to become a Insurance Agent-Pre-requisite for obtaining a license Functions of the Agent-Duration of license.	6
V	Proposal form and other forms for grant of cover. Underwriting- Material information-Nomination –Assignment.	6

<* - Self Study>

Text Books:

1. Mishra M.N., Insurance: Principles and Practice, S. Chand Publishers.
2. Murthy A., Principles & Practice of Insurance, Marghum Publications.

Reference Books:

1. Rajiv Jain : Insurance Law and Practice, Vidhi Publication Private Limited.
2. Taxmann : Insurance Manual, Taxmann Publication Private Limited.

E-references:

1. [www.icsi.in/Study Material Professional/NewSyllabus](http://www.icsi.in/Study%20Material%20Professional/NewSyllabus)
2. www.insurancepandit.com
3. www.insurancebrokerindia.com
4. www.irda.gov.in
5. www.insuranceinstituteofindia.com
6. www.pondiuni.edu.in

Mapping with Programme Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	H	H	S	H
CO2	M	M	S	M	M
CO3	S	H	M	M	H
CO4	M	S	H	M	M

S - Strong; **H** - High; **M** - Medium; **L** - Low

Question Paper Pattern (5 × 10 = 50 Marks)

Answer any FIVE Questions out of Eight Questions.

Each Question carries 10 marks.

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)

DEPARTMENT OF INTERNET OF THINGS

VALUE ADDED COURSE

INTRODUCTION TO ARDUINO AND SENSORS

25VAOT01

Total Hrs: 30 hrs

<p>UNIT I</p> <p>Introduction to Arduino - Overview of the board and components - Arduino IDE and connecting Arduino to the computer - Basic programming concepts: Variables, data types, control structures.</p>
<p>UNIT II</p> <p>Arduino I/O functions – pinMode() functions – digitalWrite() functions – analogRead() functions – Arduino display (LCD).</p>
<p>UNIT III</p> <p>Introduction to Sensors – Working of sensors – Types of sensors - Interfacing a temperature sensor (DHT11) - Reading data from a light sensor (LDR) - Using a motion sensor (PIR sensor).</p>
<p>UNIT IV</p> <p>Introduction to actuators – Motors – Servos – Relays - Controlling a servo motor with a button or sensor - Using a relay to control an external device.</p>
<p>UNIT V</p> <p>Wireless Communication - Introduction to Bluetooth communication - Bluetooth module (HC-05) with Arduino - Sending/receiving data wirelessly between Arduino and a smartphone.</p>

Text Book:

1. Internet of Things, Srinivasa K.G., Siddesh G.M., Hanumantha Raju R, Cengage Learning India Pvt Ltd. Second Indian Reprint 2019.

E- References

1. Arduino Official Website: <https://www.arduino.cc/>
2. Adafruit Learning System: <https://learn.adafruit.com/>

கோபி கலை அறிவியல் கல்லூரி (தன்னாட்சி), கோபிசெட்டிபாளையம்.

VALUE ADDED COURSES

தமிழ் இலக்கியத்துறை

கைவினைப்பொருட்களும் தொழில் முறைகளும்

25VATL01

பாடத்திட்டம்

அலகு	உள்ளடக்கம்	பாட வேளை நேரங்கள்
1	கூடை பின்னுதல் ஓயர் கூடை – மாடல் கூடை – கிராஸ் கட் கூடை – டீயூப் வயர் கூடை – பிற கூடை வகைகள்.	6
2	பூப்பின்னல் (Embroidery) துணி பொருத்துதல் (Cloth Fixing) - சமமற்ற தையல் (Uneven Stitch) - சமமான தையல் (Even Stitch) - ஓட்டுமுறை தையல் (Running Stitch) - மீன் எலும்பு தையல் (Fishbone Stitch) – பிரெஞ்சு முடிச்சு (French Stitch) – நீண்ட பிரெஞ்சு முடிச்சு (Long French Stitch) – சுருண்ட சங்கிலி தையல் (Twisted Chain Stitch) - மாய சங்கிலி தையல் (Magic Chain Stitch) - தாமரைப் புள்ளி தைத்தல் (Lazy Daisy Stitch).	6
3	ஆரி வேலைப்பாடு (Aari Work) துணி பொருத்துதல் (Cloth Fixing) - நூல் பயிற்சி (Thread Practice) – முடிச்சு பயிற்சி (Knot Practice) – வடிவங்கள் பயிற்சி (Shapes Practice) – வட்டம் - சதுரம் - செவ்வகம் - முக்கோணம் - மலர்கள் - பறவைகள் - மெருகு தையல் (Satin Stitch) - மணி வேலைப்பாடு (Bead Work)	6
4	பிணைத்து சாயமிடுதல் (Tie - Dye) கோடுகள் - சுருள் - வட்டம் - சூரிய ஒளிக்கீற்றுகள் (Sunbursts) - வானவில் (Rainbow)	6
5	வீட்டு அலங்காரப் பொருட்கள் பேனா பென்சில் நிலைப்பி (Pen Pencil Stand) – சுவர் தொங்கல்கள் (Wall Hangings) - மலர் அலங்காரப் பாணை (Flower Vase) – ஒளி விளக்கு (Light Lamp) – பிற அலங்காரப் பொருட்கள்	6

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF PHYSICS

VALUE ADDED COURSE

Course Code:	21VAPH02	Course Title:
Total Hours:	30	Electrical Appliances: Maintenance and Servicing

Course Objectives

To study about

- Basic theory of electricity, electrical connections and wiring.
- Heating and motorized appliances.
- Refrigerator, air cooler and air conditioner appliances.

Syllabus		
UNIT	Content	No. of Hours
I	Fundamentals of electricity Electric charge and current – Electric potential – Ohm's law – electrical energy – power – consumption of electrical power – resistance – capacitance – inductance – Meters: Galvanometer, ammeter, voltmeter and Megger - Measuring and Checking: Basics and usage of Multimeter - Checking transistors and diodes in circuit measurements.	6
II	Electrical connections and wiring Soldering station: Soldering Iron – Flux – lead - Zero defect soldering – Desoldering pump - AC and DC – single phase and three phase connections. Switches – ceiling rose – lamp holders, sockets – Fuse base – Distribution box – Miniature Circuit Breaker (MCB) – Electromagnetic relays - Earthing Process - Electrical Wiring – Main board preparation – Distribution – Cut-out preparation – Switch board preparation – Safety precautions.	6
III	Electrical Heating appliances Heater types – working principle – Heating Rod – Iron Box – Iron box with steamer – Toasters – Geysers – Microwave Oven: Oven disassembling and assembling procedure – Fault indicator – Testing and troubleshooting methods.	6
IV	Motorized appliances Types of Motors: DC and AC motors – fans – mixers – blenders – wet grinders: circuit connection - testing methods - Washing machine: Electrical connections – assembly – Dish washer: Electrical connection – Testing and troubleshooting methods.	6
V	Refrigerator and Air conditioner appliances Refrigerator: Electrical connection – Compressor – coolants – automatic defrost circuits – Testing and troubleshooting of refrigerators – Air coolers and Air conditioners: Mounting and fixing of air conditioners – testing and troubleshooting methods.	6

Text Books:

1. B.L.Theraja, A.K.Theraja, (2006), A Textbook of Electrical Technology S.Chand & Co. New Delhi.
2. J.B.Gupta, (2013), An Integrated Course in Electrical Engineering - S.K.Kataria & Sons, New Delhi.

Reference Books:

1. Eric Kleinert, (2012), Troubleshooting and Repairing Major Appliances - Mc Graw Hill, India.
2. H.Partas, (2017), Arts And Science of Utilization of Electrical Energy - Dhanpat Rai & Sons, New Delhi.

Question Paper Pattern (5 × 10 = 50 Marks)

Answer any FIVE Questions out of Eight Questions.

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)
DEPARTMENT OF MATHEMATICS
VALUE ADDED COURSE
MATHEMATICAL SOFTWARES
25VAMA02

Total Hrs: 30 hrs

Course Outcome

- Develop programs in SciLab & SageMath.
- Evaluate, analyse mathematical problems.
- Plot results as 2-D graphs and 3-D graphs.

UNIT I

6 Hours

Introduction to Scilab-Getting Started-Using Scilab as a calculator-Basic Elements of Scilab as a Programming Language-Elementary mathematical functions

UNIT II

6 Hours

Matrices-Vectors-Two-dimensional matrices

UNIT III

6 Hours

Plotting-The 2-dimensional plot-Contour plot-The 3-dimensional plot (Surface plot)-Titles, axis, legends and Style options-

UNIT IV

6 Hours

Installing Sage-Linux-Windows-MacOS-The Jupyter Notebook- First Steps -First Calculation-Elementary Algebra and Calculus-Variables and Symbolic Expressions-Elementary Algebra-Calculus

UNIT V

6 Hours

2D Graphics-Drawing Curves-Vector Fields-Complex Functions-Density and Contour Plots-Data Plot-3D Graphics-Plotting Functions.

Books for Reference:

1. PROGRAMMING USING SCILAB THEORY & PRACTICALS by AKHILESH KUMAR.
2. An Introductory Course on Sage by Dr. Saskia Roos & Michael Jung.

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

Department of Mathematics

Value Added Course

MATHEMATICS FOR COMPETITIVE EXAMINATIONS

21VAMA01

Instruction Hours: 30 Hours

Total Marks: 50

SYLLABUS		
Unit	Content	No. of Hours
I	Numbers – Simplification – Average – Problems on Numbers – Problems in Ages.	6
II	Percentage – Profit & Loss – Time & Work – Time & Distance – Probability.	6
III	Simple Interest – Compound Interest – Calendar – Clocks.	6
IV	Blood Relations – Directions – Area.	6
V	Number Series – Coding & Decoding.	6

Text Books:

1. R.S. Agarwal, Quantitative Aptitude, S. Chand & Co., New Delhi, 2015.
2. Dr. R.S. Aggarwal, A Modern Approach to Verbal & Non-Verbal Reasoning, S. Chand & Co., New Delhi, 2017.

Reference Books:

1. R.S.N. Pillai and A. Bagavathi, Statistics, S. Chand & Co., 7th Revised Edition, 2008.
2. Edgar Thorpe, Course in Mental Abilities and Quantitative Aptitude for Competitive Examinations, Tata McGraw Hill Pub. Co., Ltd., New Delhi, 2nd Edition, 2008.
3. Abhijit Guha, Quantitative Aptitude for Competitive Examinations, Tata McGraw - Hill Pub. Co., Ltd., New Delhi, 4th Edition, 2011.

Question Paper Pattern: (25 × 2 = 50)

Multiple Choice Questions.

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)

Career Guidance & Placement Cell

Value Added Course

MEDICAL CODING

25VAPC03

Instruction Hours: 30 Hours

Course Objective:

What is Medical Coding: Overview of coding concepts and their importance in healthcare.

1. Hands-on Insights: Introduction to the coding books (ICD, CPT, HCPCS) and practical usage.
2. CPC Certification Overview: Details about the exam, preparation strategies, and benefits of certification.
3. Training & Placement Support: A walkthrough of our comprehensive training program and guaranteed job placement assistance.
4. This interactive session, will give students a clear understanding of the industry and inspire them to explore medical coding as a career option

Unit 1: Introduction about medical coding and medical terminology 6 Hours

Introduction about Medical coding & Medical terminology - Anatomy - physiology - pathology and medical term – Cardiovascular system – Respiratory system

Unit 2: Anatomy and physiology of body systems 6 Hours

Digestive system – integumentary system – Musculoskeletal system

Unit 3: Anatomy and physiology of body systems 6 Hours

Blood and lymphatic system – nervous system – Endocrine system

Unit 4: Anatomy and physiology of body systems 6 Hours

Urinary system – Reproductive system – Urinary system – Eye and Ear

Unit 5: Introduction about ICD, CPT and HCPCS Coding 6 Hours

Introduction about ICD, CPT, HCPCS – ICD 22 Chapters – CPT 6 Chapter – HCPCS

Course Outcome:

1. Learn the key medical terms, abbreviations, and definitions.
2. Understand the structure and function of the human body, various diseases, and medical treatments.
3. Ability to assign the correct code for a diagnosis, procedure, or treatment.

Reference Books:

1. Gray's Anatomy for Students by Richard L. Drake, A. Wayne Vogl, Adam W. M. Mitchell - This is a student-friendly version of the classic Gray's Anatomy, focusing on clear explanations and high-quality illustrations of the human body's structures.

2. **Clinically Oriented Anatomy** by Keith L. Moore, Arthur F. Dalley, Anne M. R. Agur - A comprehensive book that provides both functional and clinical approaches to human anatomy. It includes detailed illustrations, and clinical correlations are emphasized.
3. **Netter's Atlas of Human Anatomy** by Frank H. Netter - Known for its beautiful and detailed illustrations, this atlas is considered a staple for anatomy students and professionals alike. It provides high-quality visuals of human anatomy and is very user-friendly.
4. **Human Anatomy & Physiology** by Elaine N. Marieb and Katja Hoehn - This textbook combines both anatomy and physiology, focusing on the relationship between structure and function in the human body.

E – References:

1. **Visible Body** (<https://www.visiblebody.com/>) - Provides interactive 3D models of the human body, allowing users to explore anatomy and physiology in detail. It's a great resource for visual learners, with content covering body structures, systems, and their functions.
2. **Inner Body** (<https://www.innerbody.com/>) - Offers an interactive guide to human anatomy, with detailed diagrams and explanations of body systems and organs. It's free to use and covers a wide range of anatomical topics.
3. **Coursera – Anatomy Specialization**(<https://www.coursera.org/specializations/anatomy>) - Offers online courses on human anatomy and physiology from the University of Michigan. The courses include video lectures and interactive content to deepen understanding of body systems.
4. **Khan Academy–Human Anatomy & Physiology** (<https://www.khanacademy.org/science/health-and-medicine>) -A free educational resource offering a variety of video lectures and articles on anatomy and physiology topics, such as organ systems and cellular functions

Scheme of Examination

Total Marks:50

Practical Assessment Process: (Offline Exam)

1. Anatomy and Physiology – 20 Marks
2. Pathology and Medical terms – 20 Marks
3. ICD – 5 Marks
4. CPT – 5 Marks

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)
CAREER GUIDANCE AND PLACEMENT CELL
VALUE ADDED COURSE
MIND SPARK: APTITUDE AND REASONING

25VAPC01

Instruction Hours: 30 Hours

Course Objective:

- To develop the basic segments of qualitative aptitude.
- To make the students corporate ready and to help them understand the need to improve on the areas of aptitude.

UNIT	CONTENT	HOURS
I	Nuber system-H.C.F. &l.C.M. of Numbers-Decimal Fractions-Simplification- Square roots and Cube roots-	6
II	Average-Problems on Numbers-Problems on ages- Percentage-Profit &Loss	6
III	Ratio&Proportion-Partnership-Chain rule-Pipes & Cisterns-Time &Work	6
IV	Time &Distance-Boats &Streams-Problems on Trains-Simple Interest-Compound Interest	6
V	Area-Calender-Clocks-Probability-Heights& Distances	6

Course outcome:

- Understanding the basic concepts of quantitative ability.
- Understanding the basic concepts of logical reasoning skills.
- Solve campus placements aptitude papers covering quantitative ability logical reasoning ability.

Reference Book:

Dr.R.S. Agarwal, Quantitative Aptitude for Competitive Examinations, S.Chand & Company Limited, New Delhi, 2017.

E-References:

1. <https://www.hitbullseye.com/Concept-of-Number-System.php>
2. <https://www.careerride.com/average.aspx>
3. <https://www.geeksforgeeks.org/compound-interest-aptitude-questions/>

Scheme of Examination

Total Marks: 50

Time: 1 hour

Computer Based Examinations (Online Exam)

Choose the best answer (50 x1 = 50)

(Question should be asked from all the five units)

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

Department of History
VALUE ADDED COURSE

MUSEOLOGY

21VAHI01

Instruction Hours: 30 Hours

Total Marks: 50

Learning Objectives (LO):

LO1: To know the history of the Museology, museum management and archival studies.

LO2: To understand types of Museum and how to Preservation the Monuments.

LO3: To know about the national level Museums.

Course Outcomes (CO):

At the end of the course, the student will be able

CO Number	Course Outcome
CO1	To attain the knowledge about the Museology.
CO2	Well versed in Scientific methods involved in Preservation of the artifacts preserved in Museum.
CO3	To have a thorough knowledge on the administrative setup involved in Museums, documents preserved and preservation techniques.

SYLLABUS

Unit	Content	No. of Hours
I	Introduction to Museology – Definition - Origin and Development of Museums in India - Important Indian Museums and their Collections - Archival Studies.	6
II	Types of Museums - Uses of Museums - Preservation of Monuments - Museum Exhibition.	6
III	Classification of Museums - Subject wise and Administrative - Government - National, Provincial Museums - Textile Museum - Industrial Museum.	6
IV	Educational Museum - School, College, Universities - Crafts Museum, Anthropological Museum, Archaeological Museum, Folk Art Museum.	6
V	Role of Curator/Director of museums - Governing body - Committees - Administration - Manuscripts, Documents, Records - its importance.	6

Text Books:

1. Agarwal, O.P., Preservation of Art Objects and Library Materials, New Delhi: National Book Trust, 1993.
2. Basham, A.L., The Wonder that was India, London: Sidgwick & Jackson, 1954.
3. Dr.G.Sethuraman, Museology Museum and its Techniques, Madurai, Sastha Publications.

End of Semester Examinations (EOS):

Essay type question of either (or) type ($5 \times 10 = 50$ Marks).

Write 5 question and answers.

Each question and answer having 10 Marks.

GOBI ARTS & SCIENCE COLLEGE (Autonomous)

GOBICHETTIPALAYAM

DEPARTMENT OF COMPUTER SCIENCE

VALUE ADDED COURSE

NETWORKING WITH ROUTERS & MANAGEABLE SWITCHES

23VACS03

Introduction Hours: 12 Hours

Total Marks: 50

Learning Objectives:

- Build an understanding of the fundamental concepts of computer networking
- Introduce the student to advanced networking concepts, preparing the student for entry Advanced courses in computer networking.
- Identify the different types of network topologies and protocols.
- Learn how to install, configure, and troubleshoot a computer network
- Learn about how to use network software and hardware with network environment
- Learn about network protocol and internet using networks

Unit	Content	No. of Hours
I	Introduction to Computer Networking: Basics of Computer Networking, Type of Network Topology, Types of Computer Networks, OSI Model, TCP/IP Model.	6
II	Computer Networks: Ethernet Cables, Routing Protocols, VLAN, IP Addresses, MAC Address, Switch and Router.	6

Text Book:

1. Andrew S. Tanenbaum, "Computer Networks", Prentice Hall of India, Fourth Edition, 2007.

Reference Books:

1. Larry Peterson & Bruce S.Davie, "Computer Networks a Systems Approach", Elsevier, Fourth Edition, 2007.
2. Douglas E.Comer, "Computer Networks and Internets", Pearson Education, Fourth Edition, 2004.
3. William Stallings, "Computer Networking with Internet Protocols and Technology", Pearson Education, First Impression, 2007.
4. Uyles Black, "Computer Networks", PHI learning private limited, Second Edition, 2010.

E-references:

1. <https://www.geeksforgeeks.org/computer-network-tutorials>
2. https://www.tutorialspoint.com/data_communication_computer_network/index.html
3. <https://www.softwaretestinghelp.com/computer-networking-basics>

Question Paper Pattern: (5 x 10 = 50 Marks)

END OF SEMESTER (EOS) EXAMINATIONS: Either or choice Five Questions.

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF PHYSICAL EDUCATION

VALUE ADDED COURSE

NUTRITION AND WEIGHT MANAGEMENT

21VAPE02

Instruction Hours: 30 Hours

Total Marks: 50

SYLLABUS		
Unit	Content	No. of Hours
I	Definition and meaning of health (Physical, Mental and Social) factors that influence health. Guiding principles of health components of health related physical fitness. Definition and meaning of fitness and wellness. Relationship between health fitness and wellness components of wellness.	5
II	Meaning of Obesity, over weight, Technique of assessing body fat. Height / Weight measurement, body mass index (BMI) hydrostatic or underwater weighing electrical impedance, skin fold measurement, body circumference measurement, causes of obesity, health risk associated with overweight and obesity.	7
III	Nutrition and Diet. Balance Diet, Nutritional status. Function of Nutrition in the body. Nutrition and dietary manipulation. Role of carbohydrate, Protein and fat.	4
IV	Metabolism and its in obesity. Dieting and its effect on obesity. Fat diet and low carbohydrate diet and its effect. Healthy eating, meals and grazing, Food to avoid for weight loss and diet chart for weight management.	7
V	Exercise for overweight and obesity. Regular exercise pattern. General exercise pattern recommendation. Exercise programmes for strength, endurance, flexibility, stress management and good sleep.	7

Text Book:

1. Ryan, Donna H.; Kahan, Scott (2018-01-01). "Guideline Recommendations for obesity Management". Medical Clinics of North America. Obesity Medicine. 102 (1): 49-63.

Reference Books:

1. "Executive Summary – 2015-2020 Dietary Guidelines – health.gov." health.gov. Retrieved 2018-12-03.
2. S. Summermatter; C. Handschin (November 2012). "PGC-1a and Exercise in the Control of "Body Weight". International Journal of Obesity. 36(11): 1428-35.
3. Badman, MK. Flier, JS. (2005) The gut and energy balance: visceral allies in the obesity wars. Science 307: 1909-1914.
4. Rolls, B.J., Morris, E.L. and Roe, L.S. (2002) Portion size of food affects energy intake in normal-weight and overweight men and women. American Journal of Clinical Nutrition, 76(6): 1207-13.
5. Matsumoto N, Ishigaki F, Ishigaki A, Iwashin H and Hara Y (1993) Reduction of blood glucose levels by tea catechin. Biosci Biotech Biochem 57:525-7.

E-References:

1. "Position of the American Dietetic Association: Weight Management". Journal of the American Dietetic Association. 109 (2): 330-346. 2009-02-01.
2. Centers for Disease Control and Prevention. State Indicator Report on Fruits and Vegetables. Atlanta, GA: 2013. Available from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3823512/>
3. U.S. Department of Health and Human Services and U.S. Department of Agriculture. 2015-2020 Dietary Guidelines for Americans, 8th Edition. Washington, D.C.: 2015. Available from <https://health.gov/dietaryguidelines/2015/guidelines/chapter-2/a-closer-...>
4. U.S. Department of Health and Human Services. Physical Activity Guidelines for Americans. Washington, DC: 2008. Available from <http://www.health.gov/PAGuidelines>.

Question Paper Pattern: (5 × 10 = 50 Marks)

Either or choice FIVE Questions.

கோபி கலை அறிவியல் கல்லூரி (தன்னாட்சி),
கோபிசெட்டிபாளையம்.

தமிழ்த்துறை

மதிப்புக் கூட்டுக் கல்வி

ஊடகவியல்

21VATM02

பாடவேளை நேரங்கள்: 30

மொத்த மதிப்பெண்கள்: 50

பாடத்திட்டம்		
அலகு	உள்ளடக்கம்	பாடவேளை நேரங்கள்
I	தகவல் தொடர்பு - அறிமுகம். சைகை, ஒலி - புகை எழுப்புதல் - கல்வெட்டுகள் - ஏட்டுச் சுவடிகள் - செப்பேடுகள் - இயல், இசை, நாடக புத்தகம்.	06
II	பத்திரிகை - வானொலி - பத்திரிகைச் சுதந்திரம் - தணிக்கை முறைகள் - இதழ்களின் வளர்ச்சி - வகைகள் - வானொலி - பன்னாட்டு ஒலிபரப்பு - கல்வி ஒலிபரப்பு - உரைகள் - கலந்துரையாடல் - நாடகங்கள்.	06
III	தொலைக்காட்சி - வருகையும் வளர்ச்சியும் - தோற்றம் - தனியார் ஒளிபரப்புகள் - வீடுதேடி வரும் சேவை - விளம்பரங்கள், தொடர்கள்.	06
IV	திரைப்படம் - தோற்றம் - செய்திப்படங்கள் - திரைப்படத் தணிக்கைக் குழு - திரைப்படத் தணிக்கைத் துறை - நவீனத் திரைப்படங்களின் போக்கு.	06
V	நவீனத் தகவல் தொடர்பு சாதனங்களும் சட்டங்களும் - அலைபேசி - குறுந்தகவல் - கணினி - கீர்ச்சம் - புலனம் - செய்தியின் தன்மை - பொறுப்பாளர்கள் - தவறான தகவல் - தண்டனைகள்.	06

பார்வை நூல்கள்:

1. மக்கள் தகவல் தொடர்பியல் அறிமுகம் - முனைவர் கி.இராசா, பாவை பப்ளிகேஷன்ஸ்.
2. தகவல் தொடர்புக் கலை - டாக்டர் அ.விநாயகமூர்த்தி, பொற்கொடி பதிப்பகம்.

வினாத்தாள் அமைப்பு முறை:

எவையேனும் ஐந்து வினாக்களுக்கு விரிவான விடையளிக்க: (5 × 10 = 50)

(அலகு - 1 முதல் அலகு - 5 வரை அமைந்துள்ள பாடங்களில் 8 (எட்டு) வினாக்கள் கேட்கப்பட்டு, அவற்றில் எவையேனும் 5 (ஐந்து) வினாக்களுக்கு விடையளிக்க வேண்டும்.)

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF COMPUTER SCIENCE

VALUE ADDED COURSE

PC SOFTWARE

21VACS01

Instruction Hours: 12 Hours

Total Marks: 50

Learning Objectives:

- To learn how to get started with Writer and identifying the features on the application window.
- To creating formulas to calculate data using Calc layout and prepare presentation using impress tool.

SYLLABUS		
Unit	Content	No. of Hours
I	Writer: Getting started with OpenOffice.org Writer; Editing Documents in Writer, Formatting the Document.	6
II	Impress: Getting started with OpenOffice.org Impress, Working with Presentations - <i>Presentation using templates.</i>	6

Text Book:

Vikas Gupta, “*Linux and Open Office Course Kit*”, First Edition, Dreamtech Press, 2010.
(Unit I - V)

Reference Books:

1. Andy Channelle, “*Beginning Open Office 3: Form Novice to Professional*”, First Edition, Apress, 2009.
2. Greg M.Perry, “*Sams Teach Yourself Open office.org All In One*”, First Edition, Prentice Hall, 2004.
3. Jeffery A.Riley, “*Introduction to Open office.org*”, First Edition, Prentice Hall, 2009.
4. Gurdy Leete, Ellen Finkelstein, Mary Leete, “*Open office.org for dummies*”, First Edition, Wiley publishing Inc, 2004.

E-references:

1. <https://www.linode.com/docs/tools-reference/introduction-to-linux-concepts/>
2. <https://www.libreoffice.org/discover/what-is-opensdocument/>
3. <https://documentation.libreoffice.org/en/english-documentation/calc/>

Question Paper Pattern: (5 × 10 = 50 Marks)

END OF SEMESTER (EOS) EXAMINATIONS: Either or choice Five Questions.

PC SOFTWARE - PRACTICAL

21VACSP1

Total No. of Hours: 18

The course aims

- To acquire basic knowledge in Linux environment and its applications in the area of business and other work.
- To learn how to get started with Writer and identifying the features on the application window.
- To learn to design an image using GIMP.
- To create formulas to calculate data using Calc layout and prepare presentation using impress tool.

List of Experiments:

1. Create an Open Office Writer application with 10 lines and perform various task such as Bold, Italic, Underline, Font-Size, Color, Background color, Line Spacing, Header & Footer, Page Numbering, Bullets & Numbering and Change Case.
2. Design an Invitation Card in Writer.
3. Design a Time Table in Writer.
4. Perform Mail-Merge for many companies in different cities through Writer.
5. Design a presentation about the college in Open Office Impress.
6. Design a presentation for product advertisement in Impress.
7. Design a presentation for the Newspaper in Impress.

Text Book:

Vikas Gupta, *“Linux and Open Office Course Kit”*, First Edition, Dreamtech press, 2010.
(Unit I - V)

Reference Books:

1. Andy Channelle, *“Beginning Open Office 3: Form Novice to Professional”*, First Edition, Apress, 2009.
2. Greg M.Perry, *“Sams Teach Yourself Open Office. Org All In One”*, First Edition, Prentice Hall, 2004.
3. Jeffery A.Riley, *“Introduction To Open Office.Org”*, First Edition, Prentice Hall, 2009.
4. Gurdy Leete, Ellen Finkelstein, Mary Leete, *“Open Office.Org For Dummies”*, First Edition, Wiley publishing Inc, 2004.

E-references:

1. <https://www.linode.com/docs/tools-reference/introduction-to-linux-concepts/>
2. <https://www.libreoffice.org/discover/what-is-opensdocument/>
3. <https://documentation.libreoffice.org/en/english-documentation/calc/>

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF COMMERCE (BUSINESS ANALYTICS)

VALUE ADDED COURSE

Course Code:	21VABA01	Course Title:
Total Hours:	30	PERSONALITY DEVELOPMENT

Course Objectives

The course aims:

- To develop the communication skills as well as positive personality traits.
- To develop and exhibit the accurate sense of self.
- To develop and nurture a deep understanding of personal motivation.

Course outcome

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

Knowledge Level	CO Number	Course Outcome
K1	CO1	Develop and articulate respect for the diversity of talents, ways of knowing and learning.
K2	CO2	Know the various communication media.
K3	CO3	Understand the communication process, its benefits and challenges
K4 & K5	CO4	Learn how the personal values connect to motivation thus serving to benefit teamwork.

K1 – Remember; **K2** – Understand; **K3** – Apply; **K4** – Analyse; **K5** – Evaluate

SYLLABUS		
Unit	Contents	No. of Hours
I	Personality: Meaning - Features - Determinants - Importance - Self Awareness. Self-Appraisal: Meaning - Importance.	6
II	Communication: Essentials of Communication - Oral and Written Communication - Body Language – Importance* - Listening skills - Good manners and etiquette.	6
III	Attitude: Meaning – significance - Factors affecting attitude - Positive and negative attitude – Advantages and disadvantages – Ways to develop positive attitude* . Motivation: Meaning - Types - Importance of self-Motivation.	6
IV	Time management - Techniques for better time management. Goal Setting: Meaning - Importance – Effective Goal Setting – Principles of Goal Setting.	6
V	Group Discussion: Meaning – Personality traits required for Group Discussion - Process of Group Discussion. Interview: Meaning - Types of Interview - Expectations of the employer – Frequently asked questions in interview - Planning for interview.	6

<* - *Self study*>

Text Books:

1. **Narayana Rajan S., Rajasekaran B., Venkadasalsapathi G., Vijuresh V. Nayaham and Herald Dhas M.,** Personality Development, Publication Division, Manonmaniam Sundaranar University, Tirunelveli.
2. **Elizabeth B. Hurlock,** Personality Development, TataMcGraw Hill Education Private Limited, New Delhi.

Reference Books:

1. **Harold R. Wallace, Ann Masters L.,** Personality Development, South -Western Cengage Learning, New Delhi.
2. **Bhat J.L.,** Essentials in Personality Development, Vee Kumar Publications Pvt. Ltd., New Delhi.
3. **Onkar R.M.,** Personality Development and Career Management.

E - Reference:

1. <https://www.msuniv.ac.in/Download/Pdf/d35b684c8ce542a>

Mapping with Programme Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	H	S	H	M
CO2	S	M	H	S	M
CO3	S	H	S	S	L
CO4	S	H	S	S	L

S - Strong; **H** - High; **M** - Medium; **L** – Low

Question Paper Pattern: (5 × 10 = 50 Marks)

Answer any FIVE Questions out of Eight Questions.

Each Question carries 10 marks.

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF CHEMISTRY

VALUE ADDED COURSE

Course Code:	21VACH03	Course Title:
Total Hours:	30	PREPARATION OF CHEMICAL REAGENTS AND THEIR VALIDATION
Course Objectives:	<p>The course aims</p> <ul style="list-style-type: none"> • To understand the knowledge on how to prepare different concentration solutions for chemical analysis. • To study the basic ideas of preparing reagents for inorganic, organic and food analysis. • To know the chemistry and preparation of indicators for various chemical analysis. 	
SYLLABUS		
Unit	Content	No. of Hours
I	Preparation of different concentrated solutions: Introduction - Normality, Molarity, ppm. Preparation - acetic acid, hydrochloric acid, nitric acid, Sulphuric acid, ammonium hydroxide, barium hydroxide, calcium hydroxide, potassium hydroxide, sodium hydroxide.	6
II	Preparation of salt solutions: Ammonium acetate, ammonium carbonate, ammonium chloride, ammonium oxalate, ammonium sulphate, barium chloride, calcium chloride, calcium sulphate, cobalt nitrate, copper sulphate, ferric chloride, ferrous sulphate, lead acetate, magnesium sulphate, potassium chromate, potassium ferricyanide, potassium ferrocyanide, potassium thiocyanate, sodium carbonate.	6
III	Preparation of Reagents for organic analysis: Sodium nitro prusside, chlorine water, bromine water, Borche's reagent, phenyl hydrazine, Schiff's reagent, Tollen's reagent, bromine in carbon tetra chloride, neutral FeCl ₃ solution, KMnO ₄ solution, alcoholic potash.	6
IV	Preparation of Reagents for Food analysis: Benedict reagent for sugar, Biuret solution for protein, Sudan III stain for fat, dichlorophenolindophenol for vitamin C, Molische' reagents, Fehling reagent A and B, Barfoed reagent, Seliwanoff reagent, Bial's reagent	6
V	Preparation of Indicators: Phenolphthalein, Methyl orange, N-Phenyl anthanilic acid, potassium ferricyanide, Starch solution, Potassium chromate, Ferric alum indicator, Fluorescein, Eosin, Erichrome Black T, diphenylamine.	6
References	<p>Text Books:</p> <ol style="list-style-type: none"> 1. V. Venkateswaran, R. Veerasamy and A.R. Kulandaivelu, Basic principles of Practical Chemistry, Sultan Chand and Sons, 2nd edition (1997). 2. P.K. Mani and A.O. Thomas, Textbook For Practical Chemistry for B.Sc. Main students, Xavier press, Cannanore (2003). 3. Vogel's, Text Book of Practical Organic Chemistry, 5th edition, Longman Group, 1979. 	

	<p>Reference Books:</p> <ol style="list-style-type: none"> 1. Dr. N. S. Gnanapragasam, Prof. G. Ramamurthy, Organic Chemistry Lab Manual, Viswanathan Publishers, 2014. 2. B.S. Furniss, A.J. Hannaford, P.W.G. Smith and A.R. Tatchell, Vogel's Textbook of Practical Organic Chemistry, 5th edition, Pearson Education Ltd. Singapore (2004). 3. V.K. Ahluwalia, S. Dhingra, A. Gulati, College Practical Chemistry, Universities Press (India) Limited (2012). <p>E-Resources:</p> <ol style="list-style-type: none"> 1. http://www.chem.uwimona.edu.jm/lab_manuals/c10expt25.html 2. https://en.wikipedia.org/wiki/Qualitative_inorganic_analysis 3. https://www.sigmaaldrich.com/analytical-chromatography/analytical 4. https://www.pharmaguideline.com/2010/09/preparation-of-indicator-solutions.html 	
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Course Outcome

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

CO Number	Course Outcome	Knowledge Level
CO1	Produce the methods of preparation of reagents and solution.	K1
CO2	Analyze organic compounds by qualitative methods.	K4
CO3	Produce indicators for volumetric analysis.	K1
CO4	Apply the appropriate methods for food analysis.	K3
CO5	Understand suitable reagents used for organic analysis.	K2

K1 - Remember; K2 - Understanding; K3 - Apply; K4 - Analyze; K5 - Evaluate

Mapping with Programme Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4
CO1	S	H	S	H
CO2	H	S	H	S
CO3	S	H	M	H
CO4	S	S	H	S
CO5	H	H	S	S

S - Strong; H - High; M - Medium; L - Low

Question Paper Pattern:

The Question Paper is to be divided into THREE Sections.

Section-A Carries 20 Marks, Section-B Carries 20 Marks and Section-C Carries 10 Marks.

Section-A: Contains 10 Short answer Questions. (10 × 2 = 20)

(Q. No.: 1 to 10)

Section-B: Contains 6 Questions, out of which 4 Questions are to be answered. (4 × 5 = 20)

(Q. No.: 11 to 16)

Section-C: Contains 2 Questions, out of which 1 Question is to be answered. (1 × 10 = 10)

(Q. No.: 17 and 18)

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF PHYSICS

VALUE ADDED COURSE

Course Code:	21VAPH01	Course Title:
Total Hours:	30	Printed Circuit Board Designing and Printing

Course Objectives

- To understand the basic principles and design characteristics of Electronic devices to study them by simulation.
- To learn the design tools, fabrication and assembly testing techniques of PCB.

Syllabus		
UNIT	Content	No. of Hours
I	Analog Simulation: Junction Diodes - Diode Applications - Bipolar Junction Transistors - DC Biasing Circuits (elementary ideas only) - Introduction to Amplifiers - Common Emitter Amplifiers - Basic principles and types of Oscillator - Field Effect Transistors - MOSFET's - Basic Power Supply Circuits - Clippers and Clampers - Operational Amplifier - Op Amp Applications.	6
II	Digital Simulation: Basic Logic Gates - Boolean Algebra - Arithmetic Operations and Circuits - Code converters, Multiplexers and De multiplexers - Logic Families and their Characteristics - Flip-Flops and Registers - Counter Circuits - Shift Registers.	6
III	Layout Planning and Design: General PCB design consideration - electrical design consideration (conductor dimension, resistance, capacitance, and inductance) - component placement rules - Layout Design: grid system - layout scale - layout sketch -layout consideration - materials and aids - land requirements.	6
IV	PCB Fabrication: General design guidelines for art work preparation: conductor orientation –routing - spacing - hole diameter - solder pad diameter - square pad-no conductor zone - pad centre holes - conductor and solder pad joints. Computer aided design: Basic CAD operation - layout procedure - library manager - component placement - computer aided manufacturing (CAM) -data transfer mechanism.	6
V	Assembly and Testing of PCB: Anatomy of laminates - etching techniques: etching solutions - etching arrangements - etching parameters - equipments and techniques - testing for quality control and quality control methods - testing of Printed Circuit Boards.	6

Text Books:**FOR UNIT I**

1. Principles of Electronics - VK Meheta , S Chand & Co
2. Basic Electronics - B.L. Theraja , S. Chand & Co

FOR UNIT II

1. D.Malvino & A.Leech, 'Digital Principles and Applications' - 3rd edition TMH Publications.

FOR UNIT III, IV&V

1. R.S Khandpur, Printed Circuit Boards Design, fabrication, assembly and testing. Tata McGraw - Hill Publishing Company, New Delhi.

Reference Books:

1. Belove, C., Editor In Chief, 1986. Handbook of Modern Electronics and Electrical Engineering.
2. Printed Circuit Boards, Bosshartwalter.C, Tata Mcgraw Hill Publishing Co Ltd – New Delhi
3. Thomas L. Floyd Digital Fundamentals, Prentice-Hall International, Inc. 1997 Upper Saddle River, New Jersey
4. William Kleitz Digital Electronics, (A Practical Approach) Prentice-Hall 1996, Upper Saddle River, New Jersey.
5. Robert T. Paynter Introductory Electronic Devices And Circuits, Prentice Hall 1997, Upper Saddle River, New Jersey, Columbus, Ohio
6. Stanley G Burns, Paul R. Bond Principles of Electronic Circuits Iowa State University. Pws Publishing Company Boston 1997. Part I.
7. Muhammad H. Rashid Microelectronic Circuits, Pws Publishing Company Boston 1999.

Question Paper Pattern (5 × 10 = 50 Marks)

Answer any FIVE Questions out of Eight Questions.

GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.
DEPARTMENT OF ENGLISH
VALUE-ADDED COURSE

PROFESSIONAL ENGLISH
21VAEN01

Total Hours: 30

Listening & Speaking:

- a) Introducing self and others.
- b) Asking for Information.
- c) Giving Information.
- d) Giving and following instructions.
- e) Continuing discussions with connecting ideas.

Reading & Writing:

- a) Reading short articles – newspaper reports/fact based articles.
- b) Reading aloud: Reading an article/report.

Types of Reading: Extensive and Intensive Reading

- c) Reading a Prose passage.
- d) Reading a Poem.

e) Descriptive Writing:

Paragraphs: Paragraph Structure; Topic Sentence; Unity; Coherence.

Writing short paragraphs on general topics.

Writing a short descriptive essay of two to three paragraphs.

Note Taking.

Question Paper Pattern:

Total Marks: 50

Written - 40 Marks;

Answer any Four Questions out of Six. ($4 \times 10 = 40$)

Oral - 10 Marks: (Reading a Paragraph; Introducing self; Getting information; Following instructions)

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

**DEPARTMENT OF ENGLISH LITERATURE
VALUE ADDED COURSE**

PROFESSIONAL ETHICS

24VAEN02

Course Objective

The Course aims

- To Hone the professional skills of the students.
- To educate the communicative skills and the work place ethics to the students.
- To provide fundamental grammar competency to the students.

Course Outcome

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

Knowledge Level	CO Number	Course Outcome
K1	CO1	Remembering the essential Etiquette and ethics
K2	CO2	Understanding the basic behavioral patterns
K3	CO3	Recognizing and appreciating the Inter personal and Intrapersonal skills
K4	CO4	Analyzing the fundamental language competency
K5	CO5	Evaluating the professional traits in current scenario

K1-Remember; K2-Understanding; K3-Apply; K4-Analyze; K5-Evaluate

SYLLABUS		
Unit	Content	No. of Hours
I	PROFESSIONAL ETIQUETTE Why does Etiquette matter? Make a Great First Impression Celebration, Special Occasions and New Beginnings.	06
II	PROFESSIONAL ETHICS Office Etiquette Texts, Chats and E-mail Dining Out	06
III	PROFESSIONAL COMMUNICATIONS-I Self -Introduction English for Etiquette Dialogue-Building Asking /Giving Directions Writing Stories from Outline	06
IV	PROFESSIONAL COMMUNICATION -II Mechanics of Writing 1. Letter Writing	06

	2. Transitions 3. Spelling Rules 4. Hyphenation 5. Transcribing Numbers 6. Abbreviating Technical and Non- Technical Terms 7. Proof Reading	
V	ESSENTIAL GRAMMAR Idioms Understanding Tenses Get your prepositions right Collocations and Cononyms Euphemisms and Language of Persuasion	06

Text Books:

1. Flannery, Katherine. *50 Essential Etiquette Lessons. California: Althea Press.2019.Print.*
2. Jeya Santhi. V and Dr. R. Selvam.Ed., *Advanced Skills for Communication in English: Book I.* New Century Book House. 2015. Print.
3. P'rayan, Albert. *English Essentials. New Delhi: Pinnacle Books, 2019. Print.*
4. Proofreading, *the Technical Phases of the Proof-Reader's Work: Reading, Marking, Revising, Etc.... Paperback, 2012.Print.*

Reference Books:

1. Dr. Celia B. Fisher. *Decoding the Ethics Code: A Practical Guide for Psychologists: SAGE Publications, Inc; Fourth edition, 2016. Print.*
2. Kelly M.Quintanilla (Author), Shawn T.Wahl (Author), *Business and Professional Communication: KEYS for Workplace Excellence, SAGE Publications, Inc; Fourth Edition, 2019. Print.*
3. Murphy, Raymond, *Essential English Grammar, Cambridge University Press, Second Edition, English, Paperback, 2019. Print.*

Mapping with Programme Specific Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	H	H	M	M	M
CO2	H	M	M	H	H
CO3	M	H	M	M	M
CO4	M	M	H	H	H
CO5	M	M	H	M	M

S-Strong; H-High;M-Medium; L-Low

GOBI ARTS & SCIENCE COLLEGE
DEPARTMENT OF MANAGEMENT
VALUE ADDED COURSE
PROFESSIONAL WELLBEING

25VABM04

Course Outcome

Students will understand the importance of wellbeing for professional success and its impact on job performance. They will be equipped with stress management techniques and strategies for emotional wellbeing in the workplace. Students will also learn effective time management.

Unit 1: Introduction to Professional Wellbeing (6 Hours)

Concept of Wellbeing - Dimensions of Wellbeing - Impact of Wellbeing on Job Performance and Career Satisfaction.

Unit 2: Stress Management and Emotional Wellbeing (6 Hours)

Understanding Stress - Effects of Stress on Professional Life- Stress Management Strategies - Emotional Wellbeing in the Workplace.

Unit 3: Time Management (6 Hours)

Time Management Principles - Setting Boundaries - Productivity Tools.

Unit 4: Personal Growth and Career Development (6 Hours)

Setting Career Goals – Self-Improvement - Building Soft Skills - Networking and Mentorship - Professional Development Plans.

Unit 5: Resilience, Adaptability, and Leadership (6 Hours)

Developing Resilience - Adaptability in Professional Life - Leadership Skills - Self-Motivation - Cultivating Positive Leadership.

Text Books:

- 1.Chadha, N.K. – Stress and Self-Management, Sage Publications, New Delhi, 2015.
- 2.Daniel Goleman – Emotional Intelligence, Bantam Books, New York, 2005.
- 3.Stephen R. Covey – The 7 Habits of Highly Effective People, Free Press, 25th Anniversary Edition, 2013.

Reference Books:

- 1.Brian Tracy – Time Management, AMACOM, 2007.
- 2.Shobhna Kapoor – Wellbeing at Work: How to Build Resilient and Thriving Teams, Bloomsbury India, 2021.
- 3.Susan David – Emotional Agility, Penguin Random House, 2016.
4. Robin Sharma – The Leader Who Had No Title, Jaico Publishing House, Mumbai, 2010.

VALUE ADDED COURSE TEST MARKS

Value Added Course Test : 100 Marks

50 MCQ * 2 Marks = 100 Marks

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM**

**Department of Computer Applications
Value Added Course**

Programming with R

22VACA01

The course aims

- To provide knowledge about basics of R Programming.
- To learn about analysis of data.

Course Outcomes (CO)

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

Knowledge Level	CO Number	Course Outcome
K1,K2	CO1	To know the working of basic R environment.
K2	CO2	Learn about R data types
K3	CO3	Examine about various looping concepts.
K3,K4	CO4	Have knowledge of exploring data analysis.
K3, K4	CO5	Illustrate the types of graphical representation.

K1 - Remember; **K2** - Understanding; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate

SYLLABUS

Unit	Content	No. of Hours
I	Getting started : History of R, Comments, Saving work and Exiting R, R for basic math.	02
II	R-Data types, Matrix, Lists and Data frames.	03
III	Mathematical operations, Decision making and loops.	03
IV	Reading, creating and storing R –CSV file, Excel File, Binary file– R –Mean, Median, Mode- Regression.	04
V	R-Pie chart – Bar chart –Histograms – Scatter plots.	03

Text Book:

1. Tilman M.Daves, “*The Book of R*”, No Starch Press, 2019.

Reference Books:

1. JaredLander , “*R for Everyone*”, Pearson Education, 2015.
2. Norman Matloff, “*The Art of R Programming*”, No Starch Press, 2011.

E-References:

1. https://onlinecourses.nptel.ac.in/noc19_ma33/preview
2. https://www.tutorialspoint.com/r/r_overview.htm
3. <https://www.guru99.com/r-tutorial.html>

Mapping with Programme Specific Outcomes

CO	PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1		S	H	S	M	H
CO2		S	M	H	H	S
CO3		H	S	S	M	M
CO4		S	M	H	S	S
CO5		S	H	S	H	H

S - Strong; H - High; M - Medium; L - Low

Programming with R - Practical

22VACAP1

Total No of Hours: 15

The course aims

- To provide knowledge about basics of R Programming
- To learn about analysis of data

Course Outcomes (CO)

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

Knowledge Level	CO Number	Course Outcome
K1,K2	CO1	To know the working of basic R environment.
K2	CO2	Learn about R data types
K3	CO3	Examine about various looping concepts.
K3,K4	CO4	Have knowledge of exploring data analysis.
K3, K4	CO5	Illustrate the types of graphical representation.

K1 - Remember; **K2** - Understanding; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate

SYLLABUS

1. Write a R program for matrix addition
2. Write a R program to R-list.
3. Write a R program to find the factorial of a number.
4. Write a R program to import and copy data from excel file to R.
5. Write a R program to find Mean, Median and Mode.
6. Write a R program to create a data frame to display employee details.
7. Write a R program to implement mathematical operations.
8. Write a R program to get input from user.
9. Write a R program to represent bar and pie charts.
10. Write a R program to represent a range of values in histogram.

Text Book:

1. Tilman M.Daves, "*The Book of R*", No Starch Press, 2019.

Reference Books:

1. JaredLander, "*R for Everyone*", Pearson Education, 2015.
2. Norman Matloff, "*The Art of R Programming*", No Starch Press, 2011.

E-References:

1. https://onlinecourses.nptel.ac.in/noc19_ma33/preview
2. https://www.tutorialspoint.com/r/r_overview.htm
3. <https://www.guru99.com/r-tutorial.html>

Mapping with Programme Specific Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	H	S	M	H
CO2	S	M	H	H	S
CO3	H	S	S	M	S
CO4	S	M	H	S	M
CO5	S	H	S	H	S

S - Strong; H - High; M - Medium; L - Low

GOBI ARTS & SCIENCE COLLEGE (Autonomous)
GOBICHETTIPALAYAM
DEPARTMENT OF COMPUTER SCIENCE
VALUE ADDED COURSE
PROJECT MANAGEMENT
23VACS06

Introduction Hours: 12 Hours

Total Marks: 50

Learning Objectives:

- To learn how to plan, manage projects to achieve its goals and targets while keeping in mind the project scope, time, quality, and cost.
- To learn about Agile methodologies and principles to manage projects in Agile environment.

Syllabus

General Project Management:

1. Introduction to Project Management:

- Definition of a project, Role of a project manager, Project life cycle and its phases

2. Project Initiation

- Identifying stakeholders, Project charter, Defining project objectives and scope, Performing feasibility studies

3. Project Planning

- Work breakdown structure (WBS), Activity sequencing and network diagrams, estimating resources, time, and costs, Developing a project schedule, Risk identification and analysis, Quality planning and management, Procurement planning, Communication and stakeholder management planning.

4. Project Execution and Control

- Team development and management, Project monitoring and control techniques, Change management and configuration management, Issue and risk management, Quality assurance and control, Procurement management and contract administration.

5. Project Closure

- Project deliverable acceptance and handover, Lessons learned documentation, Project closure activities, Post-project evaluation and review

Agile Project Management:

1. Introduction to Agile

- Definable work vs High-uncertainty work, Agile Manifesto, and mindset.

2. Life Cycle Selection

- Predictive, Iterative, Incremental, Agile Life cycles, Hybrid approaches

3. Implementing Agile – Creating an Agile environment

- Agile mindset, Servant Leadership, Team composition

4. Implementing Agile – Delivering in an Agile environment

- Common Agile practices, Troubleshooting Agile project challenges, Measurements in Agile projects.

References:

1. Project Management Essentials (You Always Wanted To Know), Fourth / Fifth Edition by Kalpesh Ashar
2. Fundamentals of Project Management, Fifth / Sixth Edition by Joseph Heagney
3. PMBOK® Guide – Seventh Edition from PMI (Project Management Institute)
4. Agile Practice Guide – First Edition from PMI (Project Management Institute) and Agile Alliance (<https://www.pmi.org/pmbok-guide-standards/practice-guides/agile>)
5. Agile Project Management Guide By John Scrum

Question Paper Pattern: (5 x 10 = 50 Marks)

END OF SEMESTER (EOS) EXAMINATIONS: Either or choice Five Questions.

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.
DEPARTMENT OF ENGLISH
VALUE-ADDED COURSE**

**PROOF READING & EDITING
21VAEN02**

Total Hours: 30

Introduction to Proof Reading and Editing.
Proof Reading Symbols.
Punctuation Marks and Commonly used Symbols.
Spelling of Words: Right/Wrong.
Correction of Words.
Using of Capital Letters.
Correction in Spellings and Proper Punctuation.
Spotting Errors.
Jumbled Sentences.
Proof Reading Exercises.

Question Paper Pattern:

Total Marks: 50

Written - 50 Marks;

- a) Answer any Four Questions out of Six. ($4 \times 10 = 40$)
- b) One paragraph for Proof Reading. No Choice. (10 Marks)

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)

DEPARTMENT OF ENGLISH LITERATURE

VALUE ADDED COURSE

PUBLIC SPEAKING

25VAEL03

Total Hrs: 30 hrs

Course Objective

The course aims

- To develop effective Public Speaking Skills.
- To improve Communication Skills.
- To build Confidence and Self-esteem.

Course Outcomes (CO)

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

Knowledge Level	CO Number	Course Outcome
K1	CO1	Understand the nuances of Communication and Public Speaking.
K2	CO2	Select and Narrow Speech Topics on par with the wavelength of Audience.
K3	CO3	Organise, Outline their Language Style in Public Speaking.
K4	CO4	Deliver Public Speeches by using Presentational Aids.
K5	CO5	Apply the Persuasive Strategies in Public Speaking.

K1 - Remember; **K2** - Understanding; **K3** - Apply; **K4** - Analyse; **K5** - Evaluate

Unit-I

(05 Hours)

Introduction to Communication
Coping Effectively with Public Speaking Anxiety
First Speech

Unit-II

(05 Hours)

Selecting and Narrowing Topic
Understanding Audience
Supporting Speech: Evidence and Research

Unit-III

(05 Hours)

Organising Main Ideas
Outlining one's Speech
Language and Style choices in one's speech

Unit-IV

(05 Hours)

Delivering Public Speech
Creating and using Presentational Aids
Informative Speaking

Unit-V**(05 Hours)**

Persuasive Speaking: Types and Designs

Persuasive Strategies

Speaking on Special Occasions

Prescribed Text

Sellnow D.Deanna, *Public Speaking: A Process Approach* Thomson-Wadsworth publishers, Belmont. USA 2003.

Mapping with Programme Specific Outcomes

CO \ PSO	PSO 1	PSO2	PSO3	PSO4	PSO5
CO1	H	H	M	L	M
CO2	H	L	M	H	H
CO3	M	H	L	M	M
CO4	L	M	H	H	H
CO5	M	M	H	M	L

S - Strong; H - High; M - Medium; L - Low

Gobi Arts & Science College (Autonomous)

Career Guidance & Placement Cell

Value Added Course - React JS Syllabus 2025 - 2026

Instruction Hours: 30 Hours

Course Objective

- To understand the fundamental concepts of React and its core features.
- To develop interactive and dynamic web applications using React components.
- To learn and implement state management techniques using Hooks and Redux.
- To design responsive and modern user interfaces with advanced styling techniques.
- To integrate APIs and manage data fetching efficiently in React applications.
- To build real-time applications using WebSockets and GraphQL.
- To test and optimize React applications for performance and reliability.

Unit 1: Introduction to React

6 Hours

Introduction to Front-End Development: Understanding Front-End Development, Overview of React and Its Features; Development Environment Setup: Installing Node.js and npm, Creating a React App Using Create React App; Core Concepts of React: JSX Syntax, Embedding JavaScript, and Differences from HTML, Components: Functional and Class Components, Props, and Passing Data, Basic Styling: Inline Styling, CSS Modules, and Styled Components; Hands-on Project: Building a Simple Todo List with Add and Delete Features

Unit 2: State Management and Handling Events

6 Hours

State Management Basics: Understanding State, Using the useState Hook; Event Handling in React: Handling Events, Event Binding, Dynamic List Rendering with Keys; Lifecycle Methods and Effects: Component Lifecycle Methods (Mounting, Updating, Unmounting), Using useEffect for Side Effects; Hands-on Project: Building an Interactive Shopping List App

Unit 3: Forms and Component Patterns

6 Hours

Form Handling in React: Controlled and Uncontrolled Components, Form Validation with Formik and React Hook Form; Component Patterns: Understanding Reusable Components, Best Practices for Code Reusability; Performance Optimization Basics: Optimizing Performance with React.memo, useMemo, and useCallback; Hands-on Project: Building a Form with Validation and Error Handling

Unit 4: Routing and API Integration

6 Hours

Routing with React Router: Setting Up and Configuring Routes, Implementing Nested and Dynamic Routes; API Integration: Fetching Data from REST APIs using fetch() and Axios; State Management for Larger Apps: Using Context API for Global State Management; Hands-on Project: Building a Multi-Page Blog with API Integration

Unit 5: Final Project and Deployment

6 Hours

Project Development: Developing a Capstone Project Incorporating Previous Concepts; Deployment Basics: Preparing for Production, Basic Deployment Using Platforms like Vercel or Netlify; Project Showcase: Demonstrating Features, Explaining Code Flow

Course Outcome:

1. Students will gain foundational knowledge of different art forms and confidently apply crafting techniques.
2. Students will demonstrate the ability to design and complete unique, high-quality craft projects.
3. Students will be able to combine creativity and technical skills to express their artistic vision.

Reference Books

1. **Alex Banks and Eve Porcello** - *Learning React: Functional Web Development with React and Redux*
2. **Stoyan Stefanov** - *JavaScript Patterns*
3. **Kent C. Dodds** - *Advanced React Patterns*
4. **Azat Mardan** - *React Quickly*

Scheme of Examination

Total Marks: 50 Marks

Assessment Type: Project-Based Evaluation

Project Details: Each student/team will develop a mini-project throughout the course. This project will demonstrate their understanding of React concepts and best practices.

Evaluation Criteria:

- **Code Quality & Structure (10 Marks)** – Proper use of JSX, Components, and Folder Structure
- **Functionality (15 Marks)** – The application's core features should work as expected
- **UI/UX Design (10 Marks)** – Clean, responsive design using CSS/Bootstrap
- **State Management (5 Marks)** – Effective use of state, hooks, and props
- **API Integration (5 Marks)** – Proper data fetching and rendering
- **Project Presentation (5 Marks)** – Clear explanation of features and code flow

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)

DEPARTMENT OF ENGLISH

REMEDIAL ENGLISH

24VAEL01

Course Objectives:

1. To communicate more effectively and accurately in both spoken and written English.
2. To strengthen students' listening skills in English across different contexts.
3. To focus on enhancing various communication skills through specific activities.
4. To enhance students' language proficiency and vocabulary skills.
5. To elevate students' writing skills across diverse genres and contexts.

Course Outcomes: On Completion of the course, the students will be able to

1. Enhance their communication abilities and written expression.
2. Effectively listen to a variety of spoken English materials, and engage in spoken communication with clarity and confidence.
3. Boost students' confidence and competence in navigating diverse personal and professional environments.
4. Communicate more effectively and confidently in both academic and professional settings.
5. Foster effective communication and expression across various personal, academic, and professional contexts.

Syllabus:

Unit – I

Grammar

- Subject-verb Agreement
- Framing Questions
- Auxiliary Verbs
- Vocabulary Enrichment
- Translation

Unit – II

Listening

- TED Talks
- Language Learning Materials
- Storytelling

Unit – III

Speaking

- Introducing Oneself
- Extempore
- Favorite Books/Movies/TV Shows

Unit – IV

Reading

- Newspaper Articles
- Short stories
- Non-Fiction Books

Unit – V

Writing

- Letter of Application
 - Curriculum Vitae
 - Cover Letter
- Creative Stories
- Personal Narratives

Reference Books:

- 1) Wren & Martin, *High School English Grammar & Composition*, S. Chand & Company Ltd, 2023.
- 2) Raymond Murphy, *English Grammar in Use*, Cambridge University Press, 2019.
- 3) David Green, *Contemporary English Grammar Structures and Composition*, Trinity Press, 2019.
- 4) S Sumanth, *Technical English*, McGraw-Hill Education (India) Pvt. Ltd, 2010.
- 5) S.M.Gupta, *Current English Grammar and Usage*, PHI Learning Pvt Ltd, 2013.
- 6) Sanjay Kumar & PushpLata, *Communication Skills* (2nd Edition), Oxford University Press, 2016.

E-References:

- 1) <https://in.indeed.com/career-advice/interviewing/self-introduction-for-interview>
- 2) <https://www.ted.com/about/programs-initiatives/tedx-program>
- 3) <https://www.careerpower.in/one-word-substitution.html>
- 4) <https://www.prospects.ac.uk/careers-advice/cvs-and-cover-letters>
- 5) <https://byjus.com/govt-exams/general-english-competitive-exams/>

Note:

Materials will be prepared by the Department

Teaching Hours: 30

Max. Marks: 100 Marks

Oral : 50 Marks (Units II, III, IV)

Written: 50 Marks (Units I, V)

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)

DEPARTMENT OF ENGLISH LITERATURE

VALUE ADDED COURSE

SCRIPT WRITING

25VAEL04

Total Hrs: 30 hrs

Course Objective

- ✓ To understand the narrative structure of films.
- ✓ To learn the skills required to write for different medium.
- ✓ To introduce students to the skills and knowledge in a range of writing and editing.

Course Outcomes (CO)

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

Knowledge Level	CO Number	Course Outcome
K1	CO1	Understand the concepts of Film Narrative Structure and Types.
K2	CO2	Evaluate Media Audience and Feedback including Women and Children.
K3	CO3	Design the nuances of Writing of Print.
K4	CO4	Apply the theories of Writing for Radio and Television.
K5	CO5	Create the theories of Writing for New Media.

K1 - Remember; **K2** - Understanding; **K3** - Apply; **K4** - Analyse; **K5** - Evaluate

Unit-I (05 Hours)

Narrative: Film Narrative structure, Types of Narrative.
Genre: Introduction and Types

Unit-II (05 Hours)

Understanding Media Audience, Feedback, Targeting Women and Children.

Unit-III (05 Hours)

Writing of Print

Unit-IV (05 Hours)

Writing for Radio
Writing for Television

Unit-V (05 Hours)

Writing for New Media

Prescribed Text

Schellhardt, Laura, *Screen Writing for Dummies* (Second Edition)- Wiley Publishing House, New Jersey. USA 2008.

Mapping with Programme Specific Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	H	H	M	L	M
CO2	H	L	M	H	H
CO3	M	H	L	M	M
CO4	L	L	H	L	H
CO5	M	M	H	M	L

S - Strong; **H** - High; **M** - Medium; **L** - Low

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)

DEPARTMENT OF COMMERCE (PROFESSIONAL ACCOUNTING)

VALUE ADDED COURSE

SECURITIES MARKET

25VAPA04

Total Hrs: 30 hrs

Course Objectives

The course aims

- To make the students to know the basics of Stock Exchange.
- To enable the students to understand the Difference between Primary and Secondary Market.
- To make the students to aware about Listing of Shares and Online Share Trading.
- To make the students to have knowledge about Dematerialisation and Depositories in India.
- To make the students to have a better understanding about SEBI, NSE and BSE.

Course outcomes (COs)

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

Knowledge level	CO_s Number	Course Outcomes
K1	CO1	Have basic knowledge about Stock Exchange.
K2	CO2	Understand the basics of Primary and Secondary market.
K3	CO3	Have knowledge about the Listing of Shares and Online Share trading.
K4	CO4	Understand the Dematerialisation and Depositories.
K5	CO5	Know about SEBI, NSE and BSE.

K1 –Remember; **K2** – Understanding; **K3**– Apply; **K4** – Analyze; **K5** – Evaluate

Syllabus

Unit	Contents	No. of hours
I	Stock Exchange – Meaning – Features – Functions. Stock Exchanges in India.	6
II	Primary Market: Meaning and Functions – Secondary Market: Meaning – Features and Functions. Difference between Primary and Secondary Market.	6
III	Listing of Securities in Stock Exchange: Meaning – Advantages. Online Share Trading: Meaning - Features and Advantages.	6
IV	Dematerialisation of Shares – Meaning – Advantages. Depositories in India: NSDL and CDSL.	6
V	SEBI – Introduction, Objectives and Functions. NSE and BSE: Introduction, Objectives and Functions.	6

Text Books:

1. Radha, Parameshwaran, and Nedunchezian, Investment Management, Prasanna & Co.
2. E. Gordon and K. Natarajan, Financial markets and services, Himalaya Publication.
3. L. Natarajan, Investment Management, Margham Publications.

Reference Books:

1. S.Chand, and V.K. Bhalla, Fundamentals of Investment Management, S. Chand & Company Pvt. Ltd.
2. S. Maria John, Financial Markets and Institutions, Palani Paramount Publications.

E-references:

1. www.sebi.gov.in
2. www.moneycontrol.com
3. www.bseindia.com
4. www.icsi.ac.in

**GOBI ARTS & SCIENCE COLLEGE (Autonomous)
GOBICHETTIPALAYAM.**

DEPARTMENT OF COMMERCE

VALUE ADDED COURSE

Course Code:	23VACO02	Course Title:
Total Hours:	30	SECURITY ANALYSIS

Course Objectives

The Course aims

- To enrich the students knowledge about Stock Exchange.
- To enlighten students about the basic concept of online trading.
- To develop the skills for security analysis.

Course Outcomes

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

Knowledge Level	CO Number	Course Outcome
K1 K2 K3 K4 K5	CO1	Acquire knowledge about the way of functioning of stock exchange.
	CO2	Gain the Practical knowledge about online trading.
	CO3	Enrich the students ' knowledge about the Economic analysis.
	CO4	Enlighten the knowledge on Industry Analysis and Company Analysis
	CO5	Equip the knowledge on the Technical Analysis

K1-Remember; **K2**- Understanding; **K3**-Apply; **K4**-Analyze; **K5**- Evaluate

SYLLABUS

Unit	Content	No.of Hours
I	Stock Exchange: Meaning- Functions.	6
II	Online trading - BOLT and NEAT systems - Procedure for opening of DEMAT account.	6
III	Fundamental Analysis– Economic Analysis – Significance and Interpretation of the Economic Indicators	6
IV	Industry Analysis – Industry Growth Cycle - Company Analysis – Marketing – Profitability–Dividend Policy–Capital Structure – Financial Analysis – Operating Efficiency	6
V	Technical Analysis - Charts- Dow Theory - Efficient Market Theory	6

Text Books:

1. V.Radha, Parameshwaran, and Nedunchezian, Investment Management, Prasanna & Co.
2. E.Gordon and K.Natarajan, Financial markets and services, Himalaya Publication.
3. L.Natarajan, Investment Management, Margham Publications.

Reference Books:

1. V.K.Bhalla, Fundamentals of Investment Management, S.Chand & Company Pvt.Ltd.
2. S.Maria John, Financial Markets and Institutions, Palani Paramount Publications.

E-references:

1. www.sebi.gov.in
2. www.moneycontrol.com
3. www.bseindia.com

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

**Department of Zoology
VALUE ADDED COURSE
SERICULTURE
21VAZO01**

Instruction Hours: 30 Hours

Total Marks: 50

SYLLABUS		
Unit	Content	No. of Hours
I	History and Silk worm Biology:- Importance of Sericulture, Sericulture in India, Sericulture as cottage industry, Central silk board, Morphology and life cycle of Bombyxmori.	6
II	Moriculture:- Common Indian varieties of mulberry, Optimum conditions for mulberry growth, Vegetative propagation-Stem cuttings, Grafting and layering, Manuring, Pruning, Harvesting and Preservation of leaves.	6
III	Rearing of Silk worm:- Silkworm rearing, Rearing appliances. Rearing operations, Brushing, Maintenance of suitable temperature and humidity, Feeding.	6
IV	Harvesting:- Methods of Mounting, Harvestings of Cocoons, Cocoon reeling, Reeling operation and Reeling appliances.	6
V	Pathology:- Diseases of Mulberry – Fungal, Bacteria and Viral Diseases. Silkworm Diseases - Pebrine, Flacherie, Muscardine and Grasserie.	6

Text Books:

1. John M, and Kesary M. (2019).Sericulture, Published by Saras Publication, Periavilai, Nagercoil.
2. Madan Mohan Rao M. (2008).A Text Book of Sericulture, B.S Publication, Sultan Bajar, Hyderabad.
3. Ganga & Sulochana chetty.G. (2006). An introduction to Sericulture. Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi.

Reference Books:

1. Ullal.S.R. and M.N.Narasimhanna (1977). Hand Book of Practical Sericulture Published by Shri.A.R.S. Gopalachar Secretary, Central Silk Board, Meghdoot, Bombay.
2. Rangaswami.G. and S.Manjeet.Jolly (1988). Sericulture Manual-I, Mulberry cultivation, Published by Mohan Primlani for Oxford & IBH Publishing Co. Pvt Ltd, New Delhi.
3. Eikichi,G.(1999). Silkworm Breeding (Translated from Japanese). Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi.

Question Paper Pattern: (5 × 10 = 50)

Answer all Questions in detail, choosing either (a) or (b).

Two questions from each unit with internal choice.

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

**DEPARTMENT OF BANKING & INSURANCE
VALUE ADDED COURSE**

SOCIAL MEDIA MARKETING

24VABI02

Total Hours: 30

Objectives:

- To understand the basic concepts of social media marketing.
- To know the importance of Social media Platforms
- To Enrich knowledge of LinkedIn marketing.

SYLLABUS		
Unit	Content	No. of Hours
I	Social media marketing: Fundamentals of social media marketing & its significance, Necessity of Social media Marketing, Building a Successful strategy: Goal Setting, Implementation	6
II	Facebook Marketing: Facebook for Business, Facebook Insight, Different types of Ad formats, Setting up Facebook Advertising Account, Facebook audience & types, Designing Facebook Advertising campaigns, Facebook Avatar, Apps, Live, Hashtags	6
III	LinkedIn Marketing: Importance of LinkedIn presence, LinkedIn Strategy, Content Strategy, LinkedIn analysis, Targeting, Ad Campaign	6
IV	Twitter Marketing: Basics, Building a content strategy, Twitter usage, Twitter Ads, Twitter ad campaigns, Twitter Analytics, Twitter Tools and tips for managers. Instagram & Snapchat basics. .	6
V	YouTube: Introduction to YouTube Marketing- YouTube Marketing Strategy- The Subscriber Advantage- Account Set Up, Optimization, Keyword Research and Video Structure- YouTube SEO, Thumbnails, Annotations and Cards.	6

Text Book:

1. Digital Marketing, S.Gupta, McGraw-Hill

Reference book:

1. Quick win Digital Marketing, H. Annmarie, A. Joanna, Paperback edition

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

Department of Management

Value Added Course

SOFTSKILL FOR EMPLOYABILITY

21VABM02

Instruction Hours: 30 Hours

Total Marks: 50

Course Outcome

To provide the opportunity for realising one's potential through learning the soft skills course which helps to develop the interpersonal skills and adopt good leadership behavior for empowerment of self.

SYLLABUS		
Unit	Content	No. of Hours
I	Understanding Life Skills Life Skills: Meaning, Need for life skills, Different approaches to life skills.	06
II	Key Issues Related with Adolescents Managing Emotions: Meaning, Handling conflicts, Building relationships.	06
III	Core Strengthening Soft Skills-I Professionalism (grooming and self-respect), Positive attitude, Motivation, Ability to learn.	06
IV	Core Strengthening Soft Skills-II Communication skills, Teamwork, Interpersonal skills, Critical thinking and problem solving.	06
V	Knowing Yourself Building self-esteem, Removing the negatives, Setting Goals for the Life.	06

Question Paper Pattern: (5 × 10 = 50 Marks)

Answer any FIVE Questions out of Eight Questions.

கோபி கலை அறிவியல் கல்லூரி (தன்னாட்சி),
கோபிசெட்டிபாளையம்.

தமிழ்த்துறை

மதிப்புக் கூட்டுக் கல்வி

தமிழர் வளர்த்த அழகுக்கலைகள்

21VATM01

பாடவேளை நேரங்கள்: 30

மொத்த மதிப்பெண்கள்: 50

பாடத்திட்டம்		
அலகு	உள்ளடக்கம்	பாடவேளை நேரங்கள்
I	கட்டடக்கலை - செங்கற் கட்டடங்கள் - பாறைக் கோயில்கள் - கற்றளிகள் - மாடக்கோயில்கள் - கோயில் வகைகள்.	06
II	சிற்பக்கலை - சிற்பம் அமைக்கும் பொருட்கள் யவன நாட்டு சிற்பமும் நமது நாட்டு சிற்பமும் - பௌத்த ஜைன சிற்பங்கள்.	06
III	ஓவியக்கலை - சுவர் ஓவியம் - பல்லவர், சோழர் கால ஓவியங்கள் - கண்ணுள் வினைஞர் - சித்தன்னவாசல் ஓவியம்.	06
IV	இசைக்கலை - இசைப்பாணர் - இசை நூல்கள் - அந்நியர் ஆட்சியில் இசைக்கலை.	06
V	கூத்துக்கலை - பதினோர் ஆடல் - கூத்து நூல்கள்.	06

பாட நூல்:

தமிழர் வளர்த்த அழகுக் கலைகள்.

மயிலை சீனி வேங்கடசாமி, பதிப்பகம் : நாம் தமிழர் பதிப்பகம்.

வினாத்தாள் அமைப்பு முறை:

எவையேனும் ஐந்து வினாக்களுக்கு விரிவான விடையளிக்க: (5 × 10 = 50)

(அலகு - 1 முதல் அலகு - 5 வரை அமைந்துள்ள பாடங்களில் 8 (எட்டு) வினாக்கள் கேட்கப்பட்டு, அவற்றில் எவையேனும் 5 (ஐந்து) வினாக்களுக்கு விடையளிக்க வேண்டும்.)

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)
GOBICHETTIPALAYAM
DEPARTMENT OF COMPUTER TECHNOLOGY
VALUE ADDED COURSE
UI/UX DESIGN
24VACT01

Instruction Hours: 30 Hrs
Learning Objectives

Total Marks: 50

- Understand the definition and principles of UI/UX Design in order to design with intention.
- Achieve a deep understanding of the entire life-cycle of design—the process, purpose, and tools.
- Discover the industry-standard tools and specific project in UI/UX.

SYLLABUS		
Unit	Content	No. of Hours
I	The User Interface - An Introduction - The importance of User Interface - Defining the user Interface - Characteristics of Graphical and web User Interface- Interaction Styles - Principles of User Interface Design - The User Interface Design Process - Understand the Principles of Good Interface and Screen Design.	6
II	Develop System Menus and Navigation Schemes - Kinds of Windows - Screen - Based Controls - Text and messages - Graphics, Icons and Images - Choosing Colors - Layout Windows.	6
III	Learning UX Laws & Figma - What Are UX Laws? - Types Of UX Laws And Examples - What Is Figma - How To Install Figma - Sample Interactive Screens Created With Figma - Figma Basics - How To Design A Login Screen (Live Designing - What Is A Pen Tool And It's Applications? - Exercise Of Login Screen.	6

Reference Books:

1. Wilbert O. Galtiz,“ The Essential Guide to User Interface Design: An Introduction to GUI Design Principles and Techniques”,3rd Edition, Wiley Publishing, Inc [UNITI–III].
2. Tom Mulligan, ”UX/UI Design 2021-2022 Tutorial for Beginners: The Complete Step by Step Guide to UX/UI Design and Best Practices for designers with no Experience”.

E-references:

1. <https://www.w3schools.com>
2. <http://www.spoken-tutorial.org>
3. <https://www.studytonight.com>

Question Paper Pattern: (5 x 10 = 50 Marks)

END OF SEMESTER (EOS) EXAMINATIONS: Either or choice Five Questions.

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**GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)
DEPARTMENT OF COMPUTER SCIENCE (AI & DS)**

VALUE ADDED COURSE

Web Design Using NodeJS for Enterprise

25VAAI01

Total Hrs: 30 hrs

Course Aims / Objectives

- To understand the Javascript and technical concepts behind NodeJS
- Understand the use of NPM and Installing Packages
- Understanding how to use Express JS
- Build a web server in Node JS and understand how Node JS works.

Knowledge Levels

Knowledge Level	CO Number	Course Outcome
K1	CO1	Understand Node JS and REPL terminal.
K1, K2, K3	CO2	Experiment with Node JS Modules and Node Package Manager
K2, K1, K3	CO3	Develop applications to handle events in Node JS
K1, K2	CO4	Make use of Web Server to manage database.
K3, K4, K5	CO5	Demonstrate Express Framework

Units & Descriptions

UNIT	DESCRIPTION	HOURS
I	Introduction to Node JS - Introduction - What is Node JS - Advantages of Node JS - Traditional Web Server Model - Process Model - Setup Dev Environment - Install Node.js on Windows / macOS - Working in REPL - Node JS Console	6
II	Node Modules - Module, functions, and examples for a modular approach - NodeJS Module - Buffer - Module Types (Core Modules, Local Modules, Export Modules)	6
III	Node Package Manager - What is NPM - Installing Packages Locally - Updating packages frequently - Understanding HTTP requests & server creation	6
IV	File System - fs.readFile - Writing a file - Writing a file asynchronously - Opening a file - Deleting a file - Other I/O Operations	6
V	Event - Emitter class - Returning event emitter automatically - Express JS : Configuring routes - Working with express	6

Text Book:

Dhruti Shah, “Node.JS Guidebook”, BPB Publications, 2018.

Reference Books:

1. Basarat Ali Syed, Beginning Node.js, A press, 2014.
2. Jonathan Wexler, Get Programming with Node.js, New York Code and Design Academy, first edition - 2019.

E-References:

1. <https://nodejs.org/en/docs/>
2. <https://www.tutorialspoint.com/nodejs/index.htm>
3. <https://www.tutorialsteacher.com/nodejs>

Mapping with Programme Specific Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	S	H	H	M
CO2	M	S	H	S	H
CO3	S	H	M	H	S
CO4	H	S	S	M	H
CO5	S	M	S	H	H

DEPARTMENT OF HUMAN EXCELLENCE

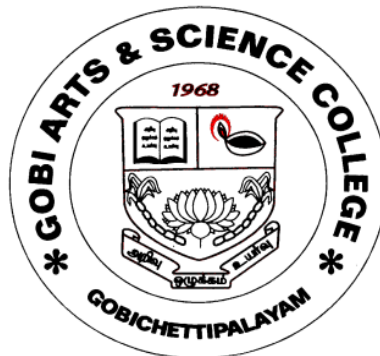
VALUE ADDED COURSE

YOGA FOR HUMAN EXCELLENCE

(2024-2025 Batch onwards)

SYLLABUS

I - IV SEMESTER



GOBI ARTS & SCIENCE COLLEGE

(Govt. Aided Autonomous Co-educational Institution, Affiliated to
Bharathiar University, Coimbatore, Accredited with 'A' Grade by NAAC (4th cycle)
and Recognised as a STAR College by DBT, Government of India)

**KARATTADIPALAYAM POST,
GOBICHETTIPALAYAM - 638453
ERODE DISTRICT.**

GOBI ARTS & SCIENCE COLLEGE
VALUE ADDED COURSE
YOGA FOR HUMAN EXCELLENCE
SCHEME OF EXAMINATIONS

Semester	Title of Paper	Exam hours	CIA	EOS	Total
I	Human Excellence Paper - I: Basics of Yogic Life (யோக வாழ்வு)	3	-	50	50
II	Human Excellence Paper - II: Sublimation and Social Welfare (குணநலப்பேறும் சமுதாய நலனும்)	3	-	50	50
II	Practical - I: Yoga Practical - I	-	100	-	100
III	Human Excellence Paper - III: Virtues of Life (வாழ்வியல் பண்புகள்)	3	-	50	50
IV	Human Excellence Paper - IV : Personality Development (ஆளுமை மேம்பாடு)	3	-	50	50
IV	Practical - II: Yoga Practical - II	-	100	-	100

Programme Code:	Value Added Course	Programme Title:	Yoga for Human Excellence	
Course Code:	24VAHE01	Course Title:	Batch:	2024
Total Hours:	30	Basics of Yogic Life (யோக வாழ்வு)	Semester:	I

நோக்கம்:

- உடலைமைப்பு விளக்கம் பெற்று உடற்பயிற்சியின் அவசியத்தைத் தெரிந்து கொள்ளுதல்.
- காயகல்பப் பயிற்சியின் அடிப்படைத் தத்துவங்களை அறிந்து கொள்ளுதல்.
- மனிதன் இயக்கங்கள் மற்றும் தவத்தின் விளக்கம் செய்முறை அறிதல்.

பயன்கள்:

- உடல் அமைப்பை அறிந்து அதன் செயல்பாடுகளை புரிந்தவர்களாக இருப்பார்கள். உள் உறுப்புகளை சீராக இயக்க-எளியமுறை உடற்பயிற்சியை செய்ய தெரிந்தவனாக இருப்பார்கள்.
- நோய் ஏற்படுவதற்கான காரணங்களை அறிந்தவர்களாக இருப்பார்கள். நோயை தவிர்க்கும் ஐந்தில் அளவு முறை தெரிந்தவனாக இருப்பார்கள்.
- உயிர் ஆற்றலின் தன்மையை அறிந்து அதை பாதுகாக்க தெரிந்தவனாக இருப்பார்கள்.

அலகு - 1: யோகமும் உடல் நலமும்

வாழ்க்கை வளக் கல்வி – வாழ்க்கை, யோகம், இயற்கை, செயல்விளைவுத் தத்துவம், உடலைமைப்பும் உடல் நலமும்:- உடலைமைப்பு, ஐந்து பௌதிகப் பிரிவுகள், மூன்று ஓட்டங்கள்:- வலி, நோய், மரணம், மூன்று உடல்கள்:- பருஉடல், நுண்ணுடல், காந்த உடல், நோய்க்கான காரணங்கள்:- இயற்கைக் காரணங்கள், செயற்கைக் காரணங்கள், ஐந்தில் அளவு முறை – உணவு, உழைப்பு, உறக்கம், புலனின்பம், எண்ணம்.

அலகு - 2: உடல்நலம்

எளியமுறை உடற்பயிற்சி - விளக்கம் - அவசியம் - பயன்கள்.
(கைப்பயிற்சி, கால்பயிற்சி, நரம்பு - தசைநார் மூச்சுப்பயிற்சி, கண்பயிற்சி, கபாலபதி, மகராசனம், உடலைத் தேய்த்து விடுதல், அக்குபிரஷர், உடல் தளர்த்துதல்)

அலகு - 3: உயிர்வளம்

உயிர்வளம்:- உயிரின் வேலைகள், வித்து சக்தியின் பெருமை.

காயகல்பப் பயிற்சி:- காயகல்பத் தத்துவம், விந்துநாதத் திரவம், இளமை காத்தல், முதுமையைத் தள்ளிப்போடுதல் காயகல்பப் பயிற்சியின் அவசியம்.

பாலுணர்வும் ஆன்மீகமும்:- வித்தின் மகிமை, இயற்கையின் வேகம், இல்லற வாழ்வு, கற்புநெறி ஆன்மீக மேம்பாடு.

அலகு - 4: மனம் வளம்:

மனதின் செயல் - கருவமைப்பு பதிவுகள் - மன அலைச்சுழல்.

தவம்:

ஆக்கினை தவம்:- பயன்கள் , செய்முறை.

சாந்தி தவம்:- விளக்கம், பயன்கள், செய்முறை, தண்டுவடசுத்தி.

அலகு-5: யோக உணவுமுறை இயற்கை உணவு:

சாத்தவிக, தாமச, ரஜோ-உணவு எளிய உணவு-அளவுமுறை, உணவு மருத்துவம், இயற்கை உணவு, உணவுத்திட்டம்.

பாடநூல்கள்:

1. மனவளக்கலை யோகா Vision for Wisdom (2012) உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.
2. யோகப் பயிற்சிகள் - 2 Vision for Wisdom (2012) உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.

நோக்கீட்டு நூல்கள்:

1. மனவளக்கலை பாகம் - 1, வேதாத்திரி மகரிஷி, 2013, உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.
2. மனவளக்கலை பாகம் - 2, வேதாத்திரி மகரிஷி, 2007, உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம் ஈரோடு-2.
3. மனவளக்கலை பாகம் - 3, வேதாத்திரி மகரிஷி, 1998, உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.
4. ஆன்மிக விளக்கு, வேதாத்திரி மகரிஷி, 2011, உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.
5. பாலுணர்வும், விழிப்புணர்வும்; முனைவர் சு. ஆண்டியப்பன் அருள்நிதி, இரா. மாரியம்மாள் மோகன்தாஸ், 2012 குகன் பதிப்பகம், பொள்ளாச்சி.
6. Yoga - An instruction Booklet, 2002: Vivekananda, Kendra Prakashan Trust, Chennai.

Programme Code:	Value Added Course	Programme Title:	Yoga for Human Excellence	
Course Code:	22VAHE02	Course Title:	Batch:	2024
Total Hours:	30	Sublimation and Social Welfare (குணநலப்பேறும் சமுதாய நலனும்)	Semester:	II

நோக்கம்:

- எண்ணங்களை ஆராய்ச்சி செய்யவும், ஆசைகளை சீரமைக்கவும் - சினம் தவிர்த்து, கவலை ஒழித்து வாழ்தல்.
- பிற சீவன்களோடும், மனிதர்களோடும் நட்புடன் வாழ, வாழ்த்தும் முறையும் அறிதல்.
- சமுதாய நலன் அறிதல்.

பயன்கள்:

- வாழ்வின் நோக்கத்தை அறிந்து இருப்பார்கள்.
- நற்குணம் தீயகுணம் அறிவைப் பெற்று இருப்பார்கள்.
- அகத்தாய்வு செய்யும் முறையை அறிந்து இருப்பார்கள்.
- பிறரிடத்தில் நட்பு நலனுடன் பழக தெரிந்திருப்பார்கள்.

அலகு - 1: வாழ்வின் நோக்கம்

வாழ்வின் நோக்கம்:- வாழ்க்கைத் தத்துவம் (பன்னிரண்டு தத்துவங்கள்).

அகத்தாய்வு:- அகத்தாய்வின் அவசியம், அறுகுணச்சீரமைப்பு.

அலகு - 2: எண்ணம் மேம்பாடு

எண்ணம் ஆராய்தல்:- நல்ல எண்ணங்கள், எண்ணத்தின் சிறப்பு, எண்ணம் எழக் காரணங்கள் - எண்ணம் ஆராய்தல் செய்தல் பயிற்சி முறை, அவரவர் வாழ்க்கை சிற்பி அவரவர் எண்ணங்களே.

அலகு - 3: குணநலம்

ஆசை சீரமைத்தல்:-

மூவகை ஆசை, மதிக்கப்பட வேண்டிய ஆசைகள், ஆசை அறிவை மயக்கக் காரணம், உறவிலே கண்ட உண்மை நிலைத் தெளிவே துறவு, ஆசைகளைச் சீரமைக்கும் பயிற்சி விளக்கம் - ஆசை சீரமைத்தல் பயிற்சி முறை.

சினம் தவிர்த்தல்:-

தீய குணங்களில் கொடியது சினம், கோபம் ஒரு தற்கொலை, மன அலைச்சுழல், சினத்தால் வரும் கேடுகள், பொறுமையும் மன்னிப்பும், சினம் என்னும் சங்கிலி, சினத்தை வெல்ல ஒரு சீரிய பயிற்சி - சினம் தவிர்த்தல் பயிற்சி முறை.

அலகு - 4: மனித வள மேம்பாடு

கவலை ஒழித்தல்:-

கவலை, உடலாற்றலுக்கும், மன ஆற்றலுக்கும் உள்ள வேறுபாடு, எதிர்பார்ப்புக்கும் நடப்புக்கும் உள்ள வேறுபாடு, கருத்து வேறுபாடு, கவலை எழக் காரணங்கள், கவலையினால் வரும் கேடுகள், நான்கு வகைக் கவலைகள், கவலை ஒழித்தல் பயிற்சி முறை.

வாழ்த்தும் பயனும்:

வாழ்த்து:- வாழ்த்தின் மேன்மை, வாழ்த்தின் பயன்கள். அலை இயக்கம், தன் வாழ்த்து, பிறரை வாழ்த்துதல், நட்பு நலம்.

அலகு - 5: சமுதாய நலம்:-

தனிமனித அமைதி,

குடும்ப அமைதி:- பிணக்கு எழக் காரணங்கள் (சகிப்புத்தன்மை, விட்டுக் கொடுத்தல், தியாகம்).

உலக அமைதி:- போர், போரில்லா நல்லுலகம், நிலவுலகுக்கோர் ஆட்சி, ஐக்கிய நாடுகளின் சபை பொறுப்பு.

பாடநூல்:

1. மனவளக்கலை யோகா Vision for Wisdom, உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.

நோக்கீட்டு நூல்கள்:

1. மனவளக்கலை பாகம் - 1: வேதாத்திரி மகரிஷி (2013), உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.
2. மனவளக்கலை பாகம் - 2: வேதாத்திரி மகரிஷி (2007), உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.
3. மனவளக்கலை பாகம் - 3: வேதாத்திரி மகரிஷி (1995), உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.
4. ஆன்மீக விளக்கு, வேதாத்திரி மகரிஷி (2011), உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.
5. பிரம்மஞானம், வேதாத்திரி மகரிஷி (2012), உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.

Programme Code:	Value Added Course	Programme Title:	Yoga for Human Excellence	
Course Code:	22VAHEP1	Course Title:	Batch:	2024
Total Hours:	30	Practical - I	Semester:	II

நோக்கம்:

- உடற்பயிற்சியை விஞ்ஞான விளக்கத்தோடு அறிந்துக் கொள்ளுதல்.
- விந்து நாத திரவம் முக்கியத்துவத்தை உணர்தல்.
- செய்யும் செயல்களை நன்மை, தீமைகளை ஆராய பழகுதல்.

பயன்கள்:

- உடல் நலத்தை பற்றி அறிவை பெற்றுயிருப்பார்கள். உயிர் சக்தியின் தன்மையை புரிந்திருப்பார்கள்.
- அகத்தவத்தினைக் கற்றிருப்பார்கள்.
- எண்ணம், சொல், செயல்களில் விழிப்புடன் இருக்கப் பழகி கொள்வார்கள்.

Unit – I

- 1.1. கை பயிற்சி முதல் கபாலபதி வரை. மதிப்பெண் - 20

Unit – II

- 2.1 மகராசனம் முதல் உடல் தளர்த்தல் வரை. மதிப்பெண் - 20

Unit – III

- 3.1 ஆக்கினை, சாந்தி, தூரியம், தவப் பயிற்சி. மதிப்பெண் - 30

Unit – IV

- 4.1 காயகல்பம், பயிற்சி முறைகள், விளக்கம் செய்முறை, (காலை, மாலை பயிற்சிகள்) மதிப்பெண் - 10

Unit – V

- 5.1 அகத்தாய்வு அட்டவணை, அகத்தாய்வு செய்ய பயிற்சியளித்தல். மதிப்பெண் - 20

பாடநூல் :

யோக பயிற்சி – I

நோக்கீட்டு நூல்:

எளியமுறை உடற்பயிற்சி, ஆகஸ்ட் 2006, 69ம் பதிப்பு, ஈரோடு - 2.

Programme Code:	Value Added Course	Programme Title:	Yoga for Human Excellence	
Course Code:	22VAHE03	Course Title:	Batch:	2024
Total Hours:	30	Virtues of Life (வாழ்வியல் பண்புகள்)	Semester:	III

நோக்கம்:

- நற்பண்புகளை ஆராய்ச்சி செய்தல்.
- அகத்தவத்தின் மூலம் உடலியல், உளவியல் பண்புகளை அறிதல்.
- வாழ்வியல் பண்புகளை அறியச் செய்தல்.
- நற்பண்புகளையும் பண்பாட்டுக் கல்வியில் முக்கியத்துவத்தை அறிதல்.

பயன்கள்:

- மனித வாழ்விற்கு தேவையான நற்பண்புகளை அறிந்தவனாக இருப்பார்கள்.
- தவத்தின் முக்கியத்தை உணர்ந்து அதனை பயின்று பலன் பெறுபவனாக இருப்பார்கள்.

அலகு - 1: வாழ்வியல் பண்புகள்

- 1.1 கல்வி
- 1.2 பண்பாட்டு கல்வி
- 1.3 பன்னிரண்டு நற்பண்புகள்

(தற்பெருமையின்மை, சுயநலமின்மை, தன்னடக்கம், விடாமுயற்சி, அமைதி, அகிம்சை, மற்றவர்க்கு உரிய மதிப்பை அளித்தல், பொறாமையின்மை, மன உறுதி, பிறரிடம் எதிர்பாராதிருத்தல், இடஒழுங்கு நேரமேலாண்மை)

அலகு - 2: அறநெறிக் கல்வி

- 2.1 ஐந்தொழுக்கப்பண்பாடு:- உழைப்பின் மூலம் ஊதியம், பிறரை துன்புறுத்தாமை, உயிர் கொல்லாமை, பிறர் சுதந்திரம் பறிக்காமை, ஈகை.
- 2.2 நல்லாட்சி முறை

அலகு - 3: அகத்தவம்

- 3.1 துரியம் தவ விளக்கம்.
- 3.2 துரியாதீத தவ விளக்கம்.

அலகு - 4: சிறப்பு தவம்

- 4.1 பஞ்சேந்திரிய தவம்
- 4.2 பஞ்ச பூத நவகிரக தவம்

அலகு - 5: சீவகாந்தப் பெருக்கப் பயிற்சி.

- 5.1 தீபப் பயிற்சி.
- 5.2 கண்ணாடிப் பயிற்சி.
- 5.3 சூக்கும வெளிப்பாடு.

பாடநூல்:

மனித வள மாண்புக் கல்வி, 2022. கோபி கலை அறிவியில் கல்லூரி, வேதாத்திரி பதிப்பகம், ஈரோடு - 2.

நோக்கீட்டு நூல்கள்:

1. மனவளமும், மனித மாண்பும் 2011, விஷன் பார் விஸ்டம், உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.
2. மனம் - வேதாத்திரி பதிப்பகம், முதல் பதிப்பு 2006 விஷன் பார் விஸ்டம், உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம்.
3. உயிர் வளமும், மனவளமும், முதல் பதிப்பு 2012, விஷன் பார் விஸ்டம், உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், வேதாத்திரி பதிப்பகம்,

Programme Code:	Value Added Course	Programme Title:	Yoga for Human Excellence	
Course Code:	24VAHE04	Course Title:	Batch:	2024
Total Hours:	30	Personality Development (ஆளுமை மேம்பாடு)	Semester:	IV

நோக்கம்:

- ஆளுமை மேம்பாட்டிற்கு தேவையான பண்புகளை கற்றல்.
- அகத்தாய்வின் மூலம் உடலியல், உளவியல் பண்புகளை அறிதல்.

பயன்கள்:

- தன் செயல்களை அகத்தாய்வு செய்பவனாக இருப்பான். ஆளுமை மேம்பாட்டிற்கு தேவையான உளவியல், அறிவைப் பெற்றவனாக இருப்பான்.
- ஆளுமை மேம்பாட்டிற்கு தேவையான பண்புகளை கற்றல்.
- முழுமைப்பேறு என்பதை அறிந்தவனாக இருப்பான்.
- கர்மயோகம் செய்பவனாக இருப்பான்.

அலகு – 1: உளவியல் அறிமுகம்

- 1.1 உளவியல் அறிமுகம், எண்ணம், சொல், செயல், விளைவு பதிவு
- 1.2 நினைவும், மறதியும், புலனுணர்ந்தல்
- 1.3 நுண்ணறிவு அளவிடுதல்
- 1.4 ஒன்பது மைய தவம்

அலகு – 2: ஆளுமை மேம்பாடு

- 2.1 ஆளுமை, ஆளுமை மேம்பாடு, மன அழுத்தம், உடற்தளர்த்தலின் நன்மைகள்.
- 2.2 பந்தம் விளக்கம் மற்றும் நன்மைகள், (ஐலந்தரபந்தம், மூலபந்தம், உட்டியான பந்தம்)
- 2.3 பிரணாயாமம் விளக்கம் மற்றும் நன்மைகள், (நாடிசுத்தி, தண்டுவடசுத்தி, உஜ்ஜீயி, சிட்டாலி, சித்தாரி, கபாலபதி).

அலகு - 3: கருமையம்

- 3.1 கருமைய அமைப்பு, கருமையம் சிறப்படைதல், கருமையப்பணிகள்.
- 3.2 கருமையப் பதிவு - வகைகள், கருமைய தூய்மை, கருமைய களங்கம்.
- 3.3 கருமையத்தை களங்கப்படுத்தும் செயல்கள் கருமையத்தைத் தூய்மைப்படுத்தும் செயல்கள். பழிச்செயல் பதிவைப் போக்கும் முறைகள்.

அலகு - 4: சிறப்பு தவம்

- 4.1 பஞ்சேந்திரிய தவம்
- 4.2 பஞ்ச பூத நவகிரக தவம்

அலகு – 5: சிவகாந்தப் பெருக்கப் பயிற்சி

- 5.1 தீபப் பயிற்சி
- 5.2 கண்ணாடிப் பயிற்சி
- 5.3 சூக்கும வெளிப்பாடு

பாடநூல்:

மனித வள மாண்பு கல்வி 2022,

கோபி கலை அறிவியல் கல்லூரி, வேதாத்திரி பதிப்பகம், ஈரோடு – 2.

நோக்கீட்டு நூல்கள்:

1. மன வளமும், மனித மாண்பும் 2011; விஷன்:.பார் விஸ்டம்; உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.
2. மனம் - வேதாத்திரி பதிப்பகம் முதல் பதிப்பு 2006: விஷன்:.பார் விஸ்டம், உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.
3. உயிர் வளமும், மனவளமும், முதல் பதிப்பு 2012: விஷன்:.பார் விஸ்டம், உலக சமுதாய சேவா சங்கம், வேதாத்திரி பதிப்பகம், ஈரோடு-2.

Programme Code:	Value Added Course	Programme Title:	Yoga for Human Excellence	
Course Code:	24VAHEP2	Course Title:	Batch:	2024
Total Hours:	30	Practical - II	Semester:	IV

நோக்கம்:

பண்பாடுகளை பற்றி அறிய செய்யல்.

ஆசனங்கள் பற்றி அறிதல்:

சூரிய நமஸ்காரம் செய்தல், நற்பண்புகளை ஆராய்ச்சி செய்தல்.

பயன்கள்:

- சூரிய நமஸ்காரத்தை பயிற்சி செய்ய பழகியிருப்பான்.
- யோகாசன பயிற்சி முறைகளைக் கற்று அதன் பயன்களை பெறுபவனாக இருப்பான்.
- முத்திரைகளைப் பற்றிய அறிவு பெற்றவனாக இருப்பான்.

அலகு - 1

சூரிய நமஸ்காரம் 12 நிலைகள்.

மதிப்பெண் - 15

அலகு - 2

பிரணாயாமம், பந்தம்

மதிப்பெண் - 15

அலகு - 3

முத்திரைகள்

மதிப்பெண் - 20

அலகு - 4

நின்ற நிலை ஆசனங்கள், உட்கார்ந்த நிலை ஆசனங்கள், படுத்த நிலை ஆசனங்கள், குப்புறப்படுத்த படுத்த நிலை ஆசனங்கள், மல்லாந்து படுத்த நிலை ஆசனங்கள்.

மதிப்பெண் - 20

அலகு - 5

- நற்பண்புகளை சிந்தித்தல், பிறருக்கும், நமக்கும் வேறுபாட்டை அறிதல் (அகத்தாய்வு அட்டவணை)
- தொண்டு செய்யும் மனநிலையை ஊக்குவித்தல் (கட்டுரை எழுதுதல்).

மதிப்பெண் - 10

மதிப்பெண் - 10

சீவகாந்தப் பெருக்கப் பயிற்சி.

மதிப்பெண் - 10

பாடநூல்:

யோக பயிற்சி - 1

யோக பயிற்சி - 2

நோக்கீட்டு நூல்:

மனவளக்கலை யோகா - மனித வள மாண்பு கல்வி

End of Semester Examinations (EOS)

Medium of Study: Tamil

Marks: 50

Theory Examinations:

Question Paper Pattern: (5 X 10 = 50)

Answer any 5 Questions out of 7 Questions open choice;

Each unit must carry One Question but not more than Two Questions. (Q. No.: 1 - 7)

Practical Examinations:

Practical - I & II Examination Marks are assessed through CIA annually.

**GOBI ARTS & SCIENCE COLLEGE (Autonomous),
GOBICHETTIPALAYAM.**

DEPARTMENT OF PHYSICAL EDUCATION

VALUE ADDED COURSE

YOGA THERAPY

21VAPE01

Instruction Hours: 30 Hours

Total Marks: 50

SYLLABUS		
Unit	Content	No. of Hours
I	Yogic Practices – Surya Namaskar, Pranayama, Kriyas, Bhandhas and Mudras.	4
II	Meaning of Hypertension and Stress – Assessment – Clinical History – Causes – Treatment through yoga for Hypertension and Stress – Contra Indication of Yogic Therapy.	4
III	Meaning of metabolic disorder (Diabetics, Obesity and Thyroid) – Assessment – Clinical History – Causes – Treatment through Yoga for Metabolic disorder – Contra Indication of Yogic Therapy.	6
IV	Meaning of Pulmonary disorder (TB, Asthma and Sinus) Assessment – Clinical History – Causes – Treatment through Yoga for Pulmonary disorder – Contra Indication of Yogic Therapy.	8
V	Meaning of musculoskeletal disorder (Osteoporosis, Arthrities and Vertebral disorder) – Assessment – Clinical History – Causes – Treatment through Yoga for Musculo – Skeletal Contrar Indication of Yogic Theory.	8

Text Book:

1. Yogic Therapy – its Basic Principles and Methods – by Swami Kavalayananda and Dr. S.L. Vinekar. Ministry of Health, Govt. of India, New Delhi, 1963.

Reference Books:

1. Satyananda Saraswathi (2008), Asana, Pranayama, Mudra, Bandha, Munger: Yoga publication trust.
2. Sivananda Saraswathi Swami (1934) Yoga Asanas Madras: My magazine of India.
3. Vishnu Devananda Swami (1972) The complete Illustrated book of yoga, New York: Pocket Book.
4. Nagarathna & Nagendra (2008) Yoga for Brounchial Asthma, Bangalore: Swami Vivekananda yoga prakshana.
5. Nagarathna & Nagendra (2007) yoga for digestive disorders Bangalore: Swami Vivekananda yoga prakshana.
6. Sri kanta ss et al (2008) yoga for diabetes, Bangalore: Swami Vivekananda yoga prakshana.
7. Nagarathna & Nagendra (2008) yoga for Hyper tension & Heart disease Bangalore: Swami Vivekananda yoga prakshana.
8. Nagarathna & Nagendra (2008) yoga for Back pain. Bangalore: Swami Vivekananda yoga prakshana.

E-Reference:

1. Iyenger B.K.S. (2008) Asana, Pranayama, New Delhi: Haper Collins publisher India.

Question Paper Pattern: (5 × 10 = 50 Marks)

Either or choice FIVE Questions.

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)

DEPARTMENT OF COMMERCE (BI & IT)

VALUE ADDED COURSE

ZOHO BOOKS

25VABI05

1. Introduction to Zoho Books:

- Zoho Books Organization Creation from the scratch

2. Setting up the organization in Zoho Books:

- Importance of Choosing Business location and country specific tax editions
- Inviting Users to the Zoho Books organization
- Collaboration Techniques and Customizing Role for different types of users
- Managing Chart of accounts: Creation of New accounts, sub-accounts and Account Code
- Configuration of Tax, Creation of new tax, Group tax and accounts tracking
- Item Management - Creation of Goods and Services with Inventory Tracking/without Inventory tracking, Associating interstate and intrastate tax for the items, Importing Items into Zoho Books
- Contact Managements - Customer & Vendor Creation, Handling different GST
- Treatments, Associating Opening Balances for contacts Configuring Credit limits, Assigning contact owner, Associating Transaction specific templates for every contact, Importing Customer & Vendor Details into Zoho books
- Other Important settings and preferences handled before creation of day to day transactions

3. Posting Opening Balance in Zoho Books:

- Live posting of opening Balance with a sample trial Balance report
- Simple tricks and methods to be followed while posting opening balances in Zoho Books

4. Handling Day to Day Transactions:

I. Purchase Transactions

Procure to Pay in Zoho Books:

- Vendor Management with Unique
- Generation of Purchase order to Vendors
- Simple Conversion of Purchase orders to Bills
- Handling & Recording Payments for the Bills Generated
- Handling Vendor Advances
- Automating the creation of Bills
- Handling Purchase Returns
- Tracking and Managing the Vendor Credits
- Handling Landed costs
- Handling overseas vendors and Import
- Transactions with Impact on Exchange Rates
- Creation of Bill of Entry in Zoho Book

II. Handling Expenses:

- Posting Organizational Expenses in Zoho Books
- Reimbursement of Expenses made for the customer
- Automating Recurring Expenses

III. Quote to Cash:

- Customer Management with Unique Portals
- Generation of Quotes or Estimates
- Simple Conversion of Estimates to Invoices
- Simple Conversion of Estimates to Sales Order
- Simple Conversion Sales Orders to Invoices
- Handling & Recording Payments for the Invoices Generated
- Automating the creation of Invoices
- Handling Sales Returns
- Tracking and Managing the Credit Notes
- Preparation of Delivery Challan
- Handling & Recording Customer Advances
- Handling overseas Customer and Export
- Transactions with Impact on Exchange Rates
- Creation of Shipping Bills in Zoho Book

5) Configuring the Transaction Approval Process:

- Purchase Approval
- Sales Approval
- Inventory Approval
- Configuring a Multi Level Approval system

6) Connecting Banking Technology:

- Introduction to Connected Banking
- Creating a Bank Account in Zoho Books
- Integrating your Bank Account/Credit Card Account with Zoho Books
- Auto Fetching of Bank Statements into Zoho Books
- Importing of Bank Statement into Zoho Books
- Bank Reconciliation process with Artificial Intelligence
- Creation of Transaction Rules in Banking
- Handling Customer Payments with Payment
- Gateway Integrations & Facilitating
- customers with Multiple payment options
- Integration of Current Accounts for Vendor Payment

7) GST Filing:

- Enabling API Access between Zoho Books and GSTN Portal
- Managing GST Settings in Zoho Books
- Simplified Pushing & Filing of GSTR 1 from Zoho Books
- Simplified GSTR 2 - Reconciliation within Zoho Books
- Generation of GSTR 3B Reporting and
- Pushing it to GST Portal GSTR 9
- Provisions for New Filing (trial)

8) E-way bills:

- Enabling API Access between Zoho Books and E-way bill Portal
- Registering GST Suvidha Provider
- Generation of New E-way Bills for Invoices
- Associated E-way Bill Number (already Generated) to an Invoice

9) E invoicing:

- Enabling E invoicing and Connecting Zoho Books with IRP
- Creation of E invoice in Zoho Books
- Difference : Normal Invoice vs E invoice
- Determining the status of the E invoice (using colors)
- Cancelling an E invoice

10) Time based Invoicing:

- Creation of Projects in Zoho Books
- Different types of Billing Methods associated with Projects
- Logging time sheet entries
- Different methods of Posting Time sheet Entries
- Budgeting of Projects
- Tracking Expenses related to the project
- Invoicing a project to the Client and Receiving its Payment
- Reports Associated with the project

11) Special Operations:

i) Price Lists -

- Creation of Sales & Purchase Price lists
- Different Methods of Price list creation
- Association of Price list to contact

ii) Inventory Adjustment

- Quantity Adjustments
- Value Adjustments

iii) Budgets

- Creation Of Budgets
- Types of Budgets
- Comparing Budgets Vs Actuals

iv) Transaction Locking

- Module wise transaction locking
- All Transactions Locking

v) Performing Bulk Actions in Zoho Books

- Use case for performing Bulk Actions in Zoho Book

vi) Reporting Tags

- Usage and functionality of Reporting Tags

vii) Manual Journals

- Posting and Publish Journals in Zoho Books

viii) Branches

- Handling multiple branches in Zoho Books

12) Handling TDS in Zoho Books

- Handling TDS (Invoices)
- Managing Vendor TDS
- Handling TDS (Bills)

- Handling TCS in Zoho Books
- Handling TCS
- Managing TCS
- Handling TCS (Bills)

13) Reports (70+):

- Generating Business overview Reports and its Customization
- (P&L Reports, Cash flow statements,
- Balance sheet, Business Performance Ratios, etc)
- Generating Various Sales Reports
- Generating Inventory related Reports
- (Inventory Summary, Inventory Valuation
- Report, Aging Summary, Product sale
- Report, Landed cost summary, ABC
- Classification, etc)
- Payable & Receivable (Aging and Balances)
- Purchases & Expenses Related Reports
- Tax Reports
- Accountant Reports
- (Day Books, General Ledger, Journal, Trial
- Balance, Account Transactions Report, etc)
- Activity Reports
- Audit Trial Report
- Other Reports

14) Customization:

- Customizing different business transactions and its templates in Zoho Books
- Customizing email templates in Zoho Books
- Adding Custom Fields to every Module in Zoho Books
- Creation of Custom Buttons
- Creating Custom View for every Module
- Managing Validation Rules for Transactions
- Web tabs and their functionalities

15) Automation:

Automation : Live Execution

- Setting Workflow Rules
- Triggering Email Alerts for any action
- performed in Zoho Books
- Automatic Field Updates in Transactions
- Triggering In app Notifications for actions
- performed in Zoho Books

Other Automations

- Webhooks
- Schedules
- Custom Functions
- Setting up of Reminders for Transactions

16) Integrations:

- Integration of Zoho Books with other Zoho Apps
- Integration of Zoho Books with other third
- Party Apps
- SMS Integrations
- Uber Integration
- API Integrations

GOBI ARTS & SCIENCE COLLEGE (AUTONOMOUS)

Career Guidance & Placement Cell

Value Added Course -TNPSC

நீங்களும் வெல்லலாம்

25VAPC05

Instruction Hours: 30 Hours

பயிற்சிப் படிப்பின் நோக்கங்கள்:

1. பொது தமிழ் இந்திய பொருளாதாரம் தமிழ்நாட்டின் வளர்ச்சி, நடப்பு நிகழ்வுகள் உள்ளிட்ட TNPSC பாட திட்டத்தின் புரிதலை வழங்குதல்.
2. பயிற்சி -தேர்வு மூலம் TNPSC தேர்வு பற்றிய அனுபவத்தை மாணவர்களிடையே ஏற்படுத்துதல்.
3. தேர்வு முறை மற்றும் நேர மேலாண்மை பற்றிய தகவல்களை தெரிந்து கொள்ளுதல்.

UNIT I:

6 Hours

இலக்கணம் : எழுத்து, சொல்- ஒரெழுத்து ஒரு மொழி -உரியபொருளை கண்டறிதல் -ஒரு பொருள் தரும் பல சொற்கள் - பொருந்தா சொல்லைக் கண்டறிதல் -அகரவரிசை -ஒரு பொருள் தரும் பன்மொழி -இரு பொருள் குறிக்கும் சொற்கள் -பேச்சுவழக்கு -எழுத்துவழக்கு-ஒரு சொல்லுக்கு இணையான வேறுசொல் அறிதல் - பேச்சுவழக்கு சொற்களுக்கு இணையான தூய தமிழ் சொற்களை இணைத்தல் .

UNIT II:

6 Hours

கலைசொற்கள்: பல்புற சார்ந்த கலை சொற்களுக்கு நேரான தமிழ் சொற்களை அறிதல், வாசித்தல் -புரிந்துகொள்ளும் திறன் -எளிய மொழி பெயர்ப்பு - ஆங்கிலம் மற்றும் பிறமொழிச் சொற்களுக்கு இணையான தமிழ்ச் சொற்கள் அறிதல்.

UNIT III:

6 Hours

இலக்கியம் தமிழ் அறிஞர்களும் தமிழ் தொண்டும் : திருக்குறள் தொடர்பான செய்திகள் - தமிழ் அறிஞர்கள் தொடர்பான செய்திகள் : பாவலரேறு பெருஞ்சித்திரனார்- உ.வே. சாமிநாதர்- பாவேந்தர் -முடியரசன் -பட்டுக்கோட்டை கல்யாணசுந்தரனார் .

UNIT IV:

6 Hours

இந்திய பொருளாதாரம் மற்றும் தமிழ்நாட்டின் வளர்ச்சி: இந்திய பொருளாதாரத்தின் இயல்புகள் -ஐந்தாண்டு திட்டமாதிரிகள் ஒருமதிப்பீடு -திட்டாக குழு மற்றும் நிதி ஆயோக்- நிதிஆணையம்- நிதிபகிர்வு- தமிழ்நாட்டின் கல்வி மற்றும் வாழ்வு முறைமைகள்- நலவாழ்வு அரசுதிட்டங்கள் தற்போதைய சமூக பொருளாதார பிரச்சனைகள்.

UNIT V:**6 Hours**

நடப்பு நிகழ்வுகள் – தமிழ்நாட்டு செய்திகள் –சர்வதேச செய்திகள்-பொருளாதார செய்திகள் –அறிவியல் மற்றும் தொழில் நுட்ப செய்திகள்- சுற்று சூழல் செய்திகள்- அறிக்கைகள் மற்றும் குறியீடுகள் –மாநில செய்திகள் -பிரபலமானவர்கள்-விருதுகள் மற்றும் நிகழ்வுகள்- விளையாட்டு செய்திகள்- முக்கிய தினங்கள் – இதர செய்திகள்.

வெளிப்பாடுகள்:

1. மாணவர்கள் TNPSC பாடத்திட்டம் மற்றும் தேர்வு முறையை முழுமையாக புரிந்து கொள்வார்கள்.
2. தமிழ்நாட்டின் சமூக-பொருளாதாரம் மற்றும் அரசியல் சூழல்களை ஆழமாக அறிய முறையை அவர்கள் பொருத்துவார்கள்.
3. விவரிப்பு தேர்வுகளுக்கான எழுதும் மற்றும் புரிந்து கொள்ளும் திறன்கள் மேம்படுத்தப்படும்.
4. TNPSC தேர்வுகளை தைரியமாக எழுத முறையாக தயாராக இருப்பார்கள் மற்றும் போட்டித் தேர்வுகளில் சிறந்த மதிப்பெண்கள் பெற உறுதியாக இருப்பார்கள்.

Reference book:

1. தமிழ்நாடு பாடநூல் கழகம் :வகுப்பு 6 முதல் 12 வகுப்பு வரை.
2. General Knowledge: Manorama Yearbook or Sura Yearbook. General Knowledge Today magazine.
3. Indian Economy: Indian Economy by Sankarganesh Karuppiah or Pratiyogita Darpan.

E-References:

1. **Official TNPSC Website:** [TNPSC Books and Resources]
(<https://www.tnpsc.gov.in/english/books.html>).
2. **Government Websites:** [Tamil Nadu Career Services]
(https://tamilnaducareerservices.tn.gov.in/asset/books/list_of_books_for_tnpsc.pdf).

Scheme of Examination**Total Marks: 50****Time: 1 hour 30 minutes****Computer Based Examinations (Online Exam)**

Choose the best answer (50 x1 = 50)

(Question should be asked from all the five units)