



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## List of Value Added courses conducted in the institution during the academic year 2022-23

S.no	Name of the Programme
1.	Emotional Intelligence
2.	Introduction - Soft Skill
3.	Emotional Intelligence
4.	Financial Modelling
5.	Logistics Management
6.	Security Market
7.	Ecology and Waste Management
8.	geographical Information system
9.	Health and Nutrition
10.	Budgeting and Scheduling Project
11.	Cyber Security
12.	Advanced MS-Excel
13.	3D Technology
14.	Word Processing
15.	Mathematical Aptitude
16.	Psychochemical Biological Characteristics of Water
17.	Fundamentals of Green Chemistry
18.	Tally with GST
19.	Mathematical Logic
20.	Introduction - Perl
21.	Introduction - Computation Chemistry
22.	Six Sigma
23.	Gerontology Understanding Ageing and Older Adults



*Jan*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

FROM

Mr. A.K Gowthemraj  
Head & Assistant Professor,  
Department of English  
Raak Arts and Science College,  
Perambai – 605110

TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on "Introduction to Soft Skills" for III BA English students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name: "Introduction to Soft skills"**

Name of the Co-ordinator:

Place: Perambai

Date: 25.08.2022

Yours Faithfully



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

26.08.2022

## CIRCULAR

It is hereby informed that our English department is going to conduct the value added course on "Introduction to Soft Skills" for III BA English students. Hence the students of Literature have to enroll their name to the course coordinator on or before 31.08.2022

**BA ENGLISH – Introduction to Soft Skills**

Principal

Copy to

1. Principal
2. Office
3. English Department



**PRINCIPAL**  
**RAAK ARTS & SCIENCE COLLEGE**  
**VILLIANUR POST-605 110**  
**PERAMBAL.**

### About the College

RAAK Arts and Science College was established in the year 2009; it was affiliated to Thiruvalluvar University, Vellore, Tamil Nadu, India. It started with five Under Graduate degree Programs and 180 students. Today, the college is offering more than eleven Under Graduate degree Programs, three Post Graduate Degree Programs and two Ph.D. Degree Programs. The college has been fostering graduates in Arts, Sciences, Commerce, Business Administration, Social Work, Information Technology and Computer Science. This has resulted in interdisciplinary environment that promotes cross disciplinary learning and research environment to the students. RASC is located in a green campus that has all the necessary infrastructure including laboratories, ICT classrooms, transport facilities etc.

### About the Department

English has become the official business language of the world. It is the most widely used programming, computing and digital language of the virtual world. More than 90% of the worlds scientific literature including conference proceeding, journals and books are published in English language. It has worldwide acceptance as the commercial language for business, trade, commerce and financial transactions. Apart from the commercial and scientific perception of the English language, it has it's own literary value and aesthetic beauty.

### AGENDA

#### Day 1 to 10

Overview of soft skills and their importance - Understanding the concept of soft skills -Self-assessment of soft skills

Verbal communication: tone, pitch, and volume - Non-verbal communication: body language, facial expressions, and posture - Active listening: techniques for effective listening

#### Day 11 to 20

Understanding team dynamics - Building trust and rapport with team members - Effective communication in teams - Conflict resolution in teams

#### Day 21 to 30

Understanding time management principles - Prioritizing tasks: Eisenhower Matrix - Scheduling and organization techniques - Managing distractions and staying focused



RAAK ARTS AND SCIENCE COLLEGE

DEPARTMENT OF  
ENGLISH

### **VALUE ADDED COURSE**

#### **INTRODUCTION TO SOFT SKILLS**

FROM 5/09/2022

TO 17/10/2022

ALL ARE WELCOME



*Jan*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

### Course Title: Introduction to Soft Skills

**Course Description:** This course provides an introduction to the essential soft skills required for personal and professional success. Students will learn how to develop effective communication, teamwork, time management, problem-solving, and leadership skills.

**Course Duration:** 30 Hours

#### UNIT 1: Introduction to Soft Skills (6 HOURS)

Overview of soft skills and their importance - Understanding the concept of soft skills - Self-assessment of soft skills

#### UNIT 2: Communication Skills (6 HOURS)

Verbal communication: tone, pitch, and volume - Non-verbal communication: body language, facial expressions, and posture - Active listening: techniques for effective listening - Conflict resolution: strategies for resolving conflicts

#### UNIT 3: Teamwork and Collaboration (6 HOURS)

Understanding team dynamics - Building trust and rapport with team members - Effective communication in teams - Conflict resolution in teams

#### UNIT 4: Time Management and Prioritization (6 HOURS)

Understanding time management principles - Prioritizing tasks: Eisenhower Matrix - Scheduling and organization techniques - Managing distractions and staying focused

#### UNIT 5: Problem-Solving and Critical Thinking (6 HOURS)

Understanding problem-solving principles - Techniques for critical thinking - Creative problem-solving strategies - Dealing with ambiguity and uncertainty

#### REFERENCES:

<http://www.nea.org/tools/35542.htm>

<http://www.cdtl.nus.edu.sg/success/s137.htm>



*Jar.*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram | An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

**DEPARTMENT OF ENGLISH**  
**VALUE ADDED COURSE (2022 -2023)**  
**INTRODUCTION TO SOFT SKILLS**  
**SUMMARY REPORT**

Effective interview skills are crucial for both job seekers and hiring managers. A well-prepared interview can make or break a job opportunity, and this report provides an overview of the essential skills and strategies to improve your interview performance. Effective interview skills require preparation, confidence, and good communication skills. By following these tips and strategies, you can improve your chances of success in your next interview.

**CO-ORDINATOR**

**HOD**



  
**PRINCIPAL**  
**RAAK ARTS & SCIENCE COLLEGE**  
**VILLIANUR POST-605 110**  
**PERAMBAL.**



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

## PERMISSION LETTER

FROM

R. DEVAKI  
Head & Assistant Professor,  
Department of Business administration  
Raak Arts and Science College,  
Perambai – 605110

TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on " FINANCIAL MODELING " for III B.Com students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name: FINANCIAL MODELING**

**Name of the Co-ordinator:**

R.DEVAKI (III B.COM)

**Place:** Perambai

**Date:** 19.07.2022

Yours Faithfully

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

21.07.2022

## CIRCULAR

It is hereby informed that our Commerce Department is going to conduct the value added course on " FINANCIAL MODELING " for I BCOM students. Hence the students of our Commerce Department have to enroll their name to the course coordinator on or before 25.07.2022

III BCOM - FINANCIAL MODELING

Principal

Copy to

1. Principal
2. Office
- 3..Department of Commerce



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

## ABOUT THE INSTITUTION

RAAK Arts and Science a Co-Education College affiliated to Thiruvalluvar University, Vellore, and Govt. of TN launched in the year 2009. We started with 5 UG courses and 180 students which have now grown up offering 12 UG courses, 7 PG Courses and 2 Ph.D., Courses with an overall strength of around 1500 students. We strive to produce graduates in different streams building strong moral values, well-disciplined with quality education to make them a complete human to face the challenges of the world with courage and commitment and help them lead a successful life building a good society.

## ABOUT THE DEPARTMENT

RAAK Arts and Science College offers B. Com. Programmes. The Department of Commerce's mission is to create the conditions for economic growth and opportunity for all communities. Through its 13 bureaus, the Department works to drive U.S. economic competitiveness, strengthen domestic industry, and spur the growth of quality jobs in all communities across the country. The Department serves as the voice of

technologies such as quantum computing and artificial intelligence (AI).

## OBJECTIVE OF THE VALUE ADDED COURSE

- To improve employability skills of students.
- To bridge the skill gaps and make students industry ready.
- To provide an opportunity to students to develop inter-disciplinary skills

## ABOUT THE COURSE

The status of women in India is strongly connected to family relations. In India, the family is seen as crucially important, and in most of the country, the family unit is patrilineal. Families are usually multi-generational, with the bride moving to live with the in-laws..

- To familiarize students with the specific cultural contexts of women in India
- To Orient the students regarding Theories of Gender Relations, Position of Women in India Society



**RAAK**

**ARTS AND SCIENCE COLLEGE**

(ISO 9001:2015 Certified Institution) | Recognized under 2(f) of UGC Act - 1956  
(Affiliated to Thiruvalluvar University)

Course:  
**FINANCIAL MODELING**

Venue:  
**CLASS ROOM**  
Department of Commerce  
RAAK Arts & Science  
College

Start: **28/07/2022 TO**  
**03/09/2022**

Organized by



Department of Commerce  
RAAK Arts & Science  
College  
Perambai, Villianur

**ALL ARE WELCOME**



*Jan.*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

## SYLLABUS FINANCIAL MODELING

### **Unit 1: Introduction to Financial Modeling (6HR)**

Overview of financial modeling and its applications - Importance of financial modeling in decision-making processes - Principles of spreadsheet modeling (Excel, Google Sheets, etc.) - Best practices for structuring financial models - Introduction to modeling standards and conventions.

### **Unit 2: Financial Statement Modeling (6HR)**

Understanding financial statements (income statement, balance sheet, cash flow statement) - Building integrated financial models linking income statement, balance sheet, and cash flow statement - Forecasting revenue, expenses, and capital - Expenditures Sensitivity analysis and scenario planning - Valuation techniques using financial statement models.

### **Unit 3: Discounted Cash Flow (DCF) Modeling (6HR)**

Introduction to DCF valuation methodology - Building DCF models to estimate the intrinsic value of a company - Forecasting free cash flows and terminal value - Discount rate estimation and cost of capital calculation Sensitivity analysis and scenario testing in DCF models

### **Unit 4: Business Valuation Modeling (6HR)**

Overview of business valuation methods (DCF, comparable company analysis, precedent transactions, etc.) - Constructing valuation models for different types of businesses (public companies, private companies, startups, etc.) - Understanding key valuation drivers and assumptions - Analyzing valuation output and interpreting results - Common pitfalls and challenges in business valuation modeling.

### **Unit 5: Advanced Financial Modeling (6HR)**

Techniques Advanced Excel functions and techniques for financial modeling (pivot tables, data tables, macros, etc.) - Monte Carlo simulation for risk analysis and uncertainty modeling - Sensitivity analysis and scenario testing with advanced modeling tools - Financial modeling for mergers and acquisitions (M&A) - Financial modeling for project finance and capital budgeting decisions.



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

**DEPARTMENT OF COMMERCE**  
**VALUE ADDED COURSE (2022 -2023)**  
**FINANCIAL MODELING**

**SUMMARY REPORT**

The Financial Modeling course offered a comprehensive exploration of techniques and methodologies essential for constructing robust financial models. Participants delved into various aspects such as forecasting future financial performance, evaluating investment opportunities, and assessing financial risks. The curriculum covered advanced Excel functions, scenario analysis, and sensitivity testing to enhance model accuracy and reliability. Emphasis was placed on integrating theoretical knowledge with practical application through hands-on exercises and case studies from diverse industries. By the end of the course, participants had acquired proficiency in building, interpreting, and optimizing financial models, equipping them to make informed strategic decisions and communicate financial insights effectively.

**COURSE COORDINATOR**

**HOD**



**PRINCIPAL**  
**RAAK ARTS & SCIENCE COLLEGE**  
**VILLIANUR POST-605 110**  
**PERAMBAL.**



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

FROM

R. DEVAKI  
Head & Assistant Professor,  
Department of Business administration  
Raak Arts and Science College,  
Perambai – 605110

TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on " LOGISTICS MANAGEMENT " for II B.Com students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name: LOGISTICS MANAGEMENT**

**Name of the Co-ordinator:**

R.DEVAKI (II B.COM)

**Place:** Perambai

**Date:** 13.09.2022

Yours Faithfully

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

15.07.2022

## CIRCULAR

It is hereby informed that our Commerce Department is going to conduct the value added course on " LOGISTICS MANAGEMENT " for II BCOM students. Hence the students of our Commerce Department have to enroll their name to the course coordinator on or before 19.07.2022

II BCOM - LOGISTICS MANAGEMENT

PRINCIPAL

Copy to

1. Principal
2. Office
- 3..Department of Commerce



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## ABOUT THE INSTITUTION

RAAK Arts and Science a Co-Education College affiliated to Thiruvalluvar University, Vellore, and Govt. of TN launched in the year 2009. We started with 5 UG courses and 180 students which have now grown up offering 12 UG courses, 7 PG Courses and 2 Ph.D., Courses with an overall strength of around 1500 students. We strive to produce graduates in different streams building strong moral values, well-disciplined with quality education to make them a complete human to face the challenges of the world with courage and commitment and help them lead a successful life building a good society.

## ABOUT THE DEPARTMENT

RAAK Arts and Science College offers B. Com. Programmes. The Department of Commerce's mission is to create the conditions for economic growth and opportunity for all communities. Through its 13 bureaus, the Department works to drive U.S. economic competitiveness, strengthen domestic industry, and spur the growth of quality jobs in all communities across the country. The Department serves as the voice of business in the Federal Government, and at the same time, the Department touches and serves every American every day.



technologies such as quantum computing and artificial intelligence (AI).

## OBJECTIVE OF THE VALUE ADDED COURSE

- To improve employability skills of students.
- To bridge the skill gaps and make students industry ready.
- To provide an opportunity to students to develop interdisciplinary skills

## ABOUT THE COURSE

The status of women in India is strongly connected to family relations. In India, the family is seen as crucially important, and in most of the country, the family unit is patrilineal. Families are usually multi-generational, with the bride moving to live with the in-laws..

- To familiarize students with the specific cultural contexts of women in India
- To Orient the students regarding Theories of Gender Relations, Position of Women in India Society
- To Imbibe knowledge about Economic Development, Women and Work Force Labour



**RAAK**

**ARTS AND SCIENCE COLLEGE**

ISO 9001:2015 Certified Institution || Recognized under 2(f) of UGC Act, 1956  
(Affiliated to Thiruvalluvar University)

**Course:**  
**LOGISTICS  
MANAGEMENT**

**Venue:**  
**CLASS ROOM**  
**Department of Commerce**  
**RAAK Arts & Science  
College**

**Start: 21/09/2022 TO  
29/10/2022**

**Organized by**



**Department of Commerce**  
**RAAK Arts & Science  
College**  
**Perambai, Villianur**

**ALL ARE WELCOME**

*Jam*

**PRINCIPAL**  
**RAAK ARTS & SCIENCE COLLEGE**  
**VILLIANUR POST-605 110**  
**PERAMBAL.**



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

### LOGISTICS MANAGEMENT

#### **Unit 1: Introduction to Logistics Management (5HR)**

Definition and scope of logistics management - Evolution and importance of logistics in business operations - Key functions of logistics management (warehousing, transportation, inventory management, etc.) - Role of logistics in achieving supply chain efficiency and customer satisfaction.

#### **Unit 2: Transportation Management (7HR)**

Modes of transportation (road, rail, air, sea, intermodal, etc.) - Selection of transportation modes and carriers Routing and scheduling of transportation activities - Freight forwarding and logistics intermediaries - Transportation regulations and compliance issues

#### **Unit 3: Inventory Management (6HR)**

Importance of inventory management in supply chain operations - Inventory control techniques (ABC analysis, EOQ, safety stock, etc.) - Inventory replenishment strategies (JIT, MRP, etc.) - Inventory valuation methods - Warehouse layout and design for efficient inventory management.

#### **Unit 4: Warehousing and Distribution Management (5HR)**

Role and functions of warehouses in the supply chain - Types of warehouses and distribution centers - Warehouse operations and process optimization - Order fulfillment and picking strategies - Cross-docking and transshipment practices

#### **Unit 5: Supply Chain Integration and Performance Measurement (7HR)**

Collaboration and coordination among supply chain partners - Information sharing and visibility in the supply chain - Supply chain risk management - Key performance indicators (KPIs) for measuring logistics and supply chain performance - Continuous improvement and lean principles in logistics management.



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001 2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

**DEPARTMENT OF COMMERCE**  
**VALUE ADDED COURSE (2022 -2023)**  
**LOGISTICS MANAGEMENT**  
**SUMMARY REPORT**

The Logistics Management course was designed to equip participants with essential skills and knowledge in efficiently managing supply chains and logistics operations. Throughout the program, key topics such as inventory management, transportation logistics, warehousing, and distribution were thoroughly covered. Emphasis was placed on the integration of technology and systems to streamline processes and optimize resource allocation. Practical case studies and industry examples provided insights into real-world challenges and best practices. Overall, the course aimed to empower participants with the tools necessary to enhance operational efficiency, reduce costs, and meet customer demands in today's dynamic business environment.

**COURSE COORDINATOR**

**HOD**



**PRINCIPAL**  
**RAAK ARTS & SCIENCE COLLEGE**  
**VILLIANUR POST-605 110**  
**PERAMBAL.**





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

FROM

R.DEVAKI  
Head & Assistant Professor,  
Department of Business administration  
Raak Arts and Science College,  
Perambai – 605110

TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on "SECURITIES MARKETS" for I B.Com students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name:** SECURITIES MARKETS

**Name of the Co-ordinator:**

R.DEVAKI (I B.COM)

**Place:** Perambai

**Date:** 7.07.2022

Yours Faithfully



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

08.07.2022

## CIRCULAR

It is hereby informed that our Commerce Department is going to conduct the value added course on " SECURITIES MARKETS " for I BCOM students. Hence the students of our Commerce Department have to enroll their name to the course coordinator on or before 11.07.2022

I BCOM - SECURITIES MARKETS

Principal

Copy to

1. Principal
2. Office
- 3..Department of Commerce



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.

## ABOUT THE INSTITUTION

RAAK Arts and Science a Co-Education College affiliated to Thiruvalluvar University, Vellore, and Govt. of TN launched in the year 2009. We started with 5 UG courses and 180 students which have now grown up offering 12 UG courses, 7 PG Courses and 2 Ph.D., Courses with and overall strength of around 1500 students. We strive to produce graduates in different streams building strong moral values, well-disciplined with quality education to make them a complete human to face the challenges of the world with courage and commitment and help them lead a successful life building a good society.

## ABOUT THE DEPARTMENT

RAAK Arts and Science College offers B. Com. Programmes. The Department of Commerce's mission is to create the conditions for economic growth and opportunity for all communities. Through its 13 bureaus, the Department works to drive U.S. economic competitiveness, strengthen domestic industry, and spur the growth of quality jobs in all communities across the country. The Department serves as the voice of business in the Federal Government, and at the same time, the Department touches and serves every American every day.

The Department fosters the innovation and invention that underpin the U.S. comparative

technologies such as quantum computing and artificial intelligence (AI).

## OBJECTIVE OF THE VALUE ADDED COURSE

- To improve employability skills of students.
- To bridge the skill gaps and make students industry ready.
- To provide an opportunity to students to develop inter-disciplinary skills

## ABOUT THE COURSE

The status of women in India is strongly connected to family relations. In India, the family is seen as crucially important, and in most of the country, the family unit is patrilineal. Families are usually multi-generational, with the bride moving to live with the in-laws..

- To familiarize students with the specific cultural contexts of women in India
- To Orient the students regarding Theories of Gender Relations, Position of Women in India Society
- To Imbibe knowledge about Economic Development, Women and Work Force Labour



**RAAK**  
**ARTS AND SCIENCE COLLEGE**

(ISO: 9001: 2015 Certified Institution) (Recognized under 2(f) of  
(Affiliated to Thiruvalluvar University)

**Course:**  
**SECURITIES MARKETS**

**Venue:**  
**CLASS ROOM**  
**Department of Commerce**  
**RAAK Arts & Science**  
**College**

**Start: 13/07/2022 TO**  
**19/08/2022**

**Organized by**



**Department of Commerce**  
**RAAK Arts & Science**  
**College**  
**Perambai, Villianur**

**ALL ARE WELCOME**

*Jm.*

**PRINCIPAL**  
**RAAK ARTS & SCIENCE COLLEGE**  
**VILLIANUR POST-605 110**  
**PERAMBAL.**





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

### SECURITIES MARKETS

#### Unit 1: Introduction to Securities Markets (6hr)

Overview of financial markets and their functions - Types of securities (stocks, bonds, derivatives, etc.) - Primary and secondary market - Participants in the securities markets (investors, issuers, brokers, dealers, etc.) - Regulatory framework governing securities markets

#### Unit 2: Equity Markets (6hr)

Understanding equity securities (common stock, preferred stock, etc.) - Stock exchanges and trading mechanisms - Equity valuation techniques (fundamental analysis, technical analysis, etc.) - Initial Public Offerings (IPOs) and seasoned equity offerings - Stock market indices and benchmarks.

#### Unit 3: Fixed Income Markets (6hr)

Types of fixed income securities (bonds, Treasury bills, municipal bonds, etc.) - Bond pricing and valuation Yield measures (current yield, yield to maturity, yield curve, etc.) - Bond market trading and market participants - Credit ratings and credit risk assessment in fixed income markets.

#### Unit 4: Derivatives Markets (6hr)

Introduction to derivative instruments (futures, options, swaps, etc.) - Pricing and valuation of derivatives - Trading strategies using derivatives - Hedging and risk management with derivatives - Regulation and oversight of derivatives markets.

#### Unit 5: Alternative Investments and Market Trends (6hr)

Overview of alternative investments (real estate, commodities, hedge funds, private equity, etc.) - Investment strategies and risks associated with alternative investments - Emerging trends in securities markets (financial technology, algorithmic trading, etc.) - Globalization of securities markets and international investing - Ethical considerations in securities trading and investing.



*John*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.




# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

**DEPARTMENT OF COMMERCE**  
**VALUE ADDED COURSE (2022 -2023)**  
**SECURITIES MARKETS**  
**SUMMARY REPORT**

The Securities Market course provided a comprehensive overview of the financial landscape, focusing on the dynamics of equity, debt, and derivative markets. Participants gained a deep understanding of market operations, including trading mechanisms, regulatory frameworks, and risk management strategies. Key topics covered included market analysis techniques, investment strategies, and the impact of macroeconomic factors on securities. The course emphasized practical applications through case studies and simulations, equipping participants with the skills to navigate the complexities of the securities market effectively.

  
**COURSE COORDINATOR**

  
**HOD**



  
**PRINCIPAL**  
**RAAK ARTS & SCIENCE COLLEGE**  
**VILLIANUR POST-605 110**  
**PERAMBAL.**



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

FROM

Dr.P.KATHAVARAYAN  
Head & Assistant Professor,  
Department of Commerce (CA)  
Raak Arts and Science College,  
Perambai – 605110

TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on "ECOLOGY AND WASTE MANAGEMENT" for III B.COM (CA) students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name: Ecology and Waste Management**

**Name of the Co-ordinator:**

Dr.P.KATHAVARAYAN (III B.COM (CA))

**Place:** Perambai

**Date:** 10.06.2022



Yours Faithfully

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

11.06.2022

## CIRCULAR

It is hereby informed that our Commerce (CA) is going to conduct the value added course on "ECOLOGY AND WASTE MANAGEMENT" for III B.COM (CA) students. Hence the students of Business Administration have to enroll their name to the course coordinator on or before 10.06.2022.

III B.COM (CA), - Ecology and Waste Management



Principal

Copy to

1. Principal
2. Office
3. ..Department of Commerce (CA)



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.

## ABOUT THE INSTITUTION

RAAK Arts and Science a Co-Education College affiliated to Thiruvalluvar University, Vellore, and Govt. of TN launched in the year 2009. We started with 5 G courses and 180 students which have now grown up offering 12 UG courses, 7 PG Courses and 2 Ph.D., Courses with and overall strength of around 1500 students. We strive to produce graduates in different streams building strong moral values, well-disciplined with quality education to make them a complete human to face the challenges of the world with courage and commitment and help them lead a successful life building a good society.

## ABOUT THE DEPARTMENT

RAAK Arts and Science College offers B. Com. (CA) Programmes and is manned by experienced and resourceful faculties, with a large number of publications including creative writings and translations. B.Com Computer Applications is a three-year full-time undergraduate program that deals with studying various aspects of computer science along with Commerce. It is a combination of Commerce and computer applications for commerce disciplines that require knowledge of computers. This course is designed to equip students with integrated knowledge of commerce and computer systems. In addition, this course offers ample job opportunities in the IT and Commerce industry. Upon completing

the course, students can work as Business Analyst, Business Consultant, Auditor, Computer Programmer, App Developer, etc.

## OBJECTIVE OF THE VALUE ADDED COURSE

- To improve employability skills of students.
- To bridge the skill gaps and make students industry ready.
- To provide an opportunity to students to develop inter-disciplinary skills

## ABOUT THE COURSE

A systematic process that involves managing waste in a way that doesn't harm the environment. This includes activities like separating waste at its source, transporting it separately, and disposing of it properly.

- To provide insight on current environmental issues.
- Enable students to understand concept of waste management and the ways of reducing waste



## ARTS AND SCIENCE COLLEGE

(Autonomous to Thiruvalluvar University)  
(600-8001-2015 Certified Institution & Recognized under 2(B) of UGC Act - 1956)

Course:  
**ECOLOGY AND WASTE  
MANAGEMENT**

Venue:

## CLASS ROOM

Department of Commerce (CA)  
RAAK Arts & Science College

Start: 13.06.2022 to 19.07.2022

Organized by



Department of Commerce (CA)  
RAAK Arts & Science College  
Perambai, Villianur

**ALL ARE WELCOME**



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

### ECOLOGY AND WASTE MANAGEMENT

#### Unit 1 (5 hrs)

Introduction to environment-Eco system-balanced eco system-human activities-effects of human activities on environment-Need for public awareness-Health Risk & Vulnerability of humans due to environmental Degradation

#### Unit 2 (7 hrs)

Ecology- biodiversity-impact of economy on ecology-restoration-biodiversity threats and conservation

#### Unit 3 (6 hrs)

Introduction to waste management-Environmental issues –ways of environmental pollution-need of waste management- State of municipal waste generation in the world-ways of dealing with municipal solid waste-sanitary land fill- recycling of plastic

#### Unit 4 (7 hrs)

Liquid waste management-hazardous and toxic waste-Municipal waste handling in Indian cities and towns- Bio medical and chemical waste- Nuclear and E waste- environmental consequences of ship breaking- polluting industries of India-hazardous waste from other countries to India

#### Unit 5 (6 hrs)

Disposal of solid waste and management -3R system –new technologies in 3R -3R in home-3R in our country- ways of minimizing wastages- home-city-country-organic waste management - waste prevention-Climate change and adaptation.

#### REFERENCE

- Begon, M., Townsend, C. R., & Harper, J. L. (2006). Ecology: Individuals, populations, and communities (4th ed.). Blackwell Publishing.
- Tchobanoglous, G., Theisen, H., & Vigil, S. (2015). Integrated solid waste management: Engineering principles and management practices (2nd ed.). McGraw-Hill Education.

  
COURSE COORDINATOR

  
HOD



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

FROM

Dr.P.KATHAVARAYAN  
Head & Assistant Professor,  
Department of Commerce (CA)  
Raak Arts and Science College,  
Perambai – 605110

TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on "GEOGRAPHICAL INFORMATION SYSTEM" for II B.COM (CA) students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name: Geographical Information System**

**Name of the Co-ordinator:**

Mr.R.CHILAMBARASAN (II B.COM (CA)

**Place:** Perambai

**Date:** 10.06.2022



Yours Faithfully

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

11.06.2022

## CIRCULAR

It is hereby informed that our Commerce (CA) is going to conduct the value added course on "GEOGRAPHICAL INFORMATION SYSTEM" for II B.COM (CA) students. Hence the students of Business Administration have to enroll their name to the course coordinator on or before 10.06.2022.

II B.COM (CA), - Geographical Information System

Principal

Copy to

1. Principal
2. Office
- 3...Department of Commerce (CA)



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



## ARTS AND SCIENCE COLLEGE

160/001/2015 Certified Institution / Recognized under 21F of UGC Act - 1956

### SYSTEM

Venue:

### CLASS ROOM

Department of Commerce (CA)  
RAAK Arts & Science College

Start: 13.06.2022 to 19.07.2022

Organized by



Department of Commerce (CA)  
RAAK Arts & Science College  
Perambai, Villianur

**ALL ARE WELCOME**

the course, students can work as Business Analyst, Business Consultant, Auditor, Computer Programmer, App Developer, etc.

### OBJECTIVE OF THE VALUE ADDED COURSE

- To improve employability skills of students.
- To bridge the skill gaps and make students industry ready.
- To provide an opportunity to students to develop inter-disciplinary skills

### ABOUT THE COURSE

A Geographic Information System (GIS) is a computer system that analyzes and displays geographically referenced information. It uses data that is attached to a unique location. Most of the information we have about our world contains a location reference.

- To train students on using various remote sensing data types / formats
- To provide exposure to basic tools and techniques in GIS

software Course: **GEOGRAPHICAL INFORMATION**

### ABOUT THE INSTITUTION

RAAK Arts and Science a Co-Education College affiliated to Annamalai University, We started with 5 UG courses and 180 students which have now grown up offering 12 UG courses, 7 PG Courses and 2 Ph.D., Courses with and overall strength of around 1500 students. We strive to produce graduates in different streams building strong moral values, well-disciplined with quality education to make them a complete human to face the challenges of the world with courage and commitment and help them lead a successful life building a good society.

### ABOUT THE DEPARTMENT

RAAK Arts and Science College offers B. Com. (CA) Programmes and is manned by experienced and resourceful faculties, with a large number of publications including creative writings and translations. B.Com Computer Applications is a three-year full-time undergraduate program that deals with studying various aspects of computer science along with Commerce. It is a combination of Commerce and computer applications for commerce disciplines that require knowledge of computers. This course is designed to equip students with integrated knowledge of commerce and computer systems. In addition, this course offers ample job opportunities in the IT and



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Anna Maria University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

### GEOGRAPHICAL INFORMATION SYSTEM

<b>Unit 1</b>	<b>(5 hrs)</b>
Introduction, Course overview, what is GIS Cartographic principles and conventions	
<b>Unit 2</b>	<b>(7 hrs)</b>
Spatial data properties and structure-Spatial data management, geo database basics	
<b>Unit 3</b>	<b>(6 hrs)</b>
GIS modeling and automation; web GIS and open source GIS	
<b>Unit 4</b>	<b>(7 hrs)</b>
Introduction to Remote Sensing Introduction to Global Positioning Systems	
<b>Unit 5</b>	<b>(6 hrs)</b>
Geospatial applications and perspectives	

**COURSE COORDINATOR**

**HOD**



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

FROM

Dr.P.KATHAVARAYAN  
Head & Assistant Professor,  
Department of Commerce (CA)  
Raak Arts and Science College,  
Perambai – 605110

TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on "HEALTH AND NUTRITION" for I B.COM (CA) students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name: Health and Nutrition**

**Name of the Co-ordinator:**

Mrs.A.SUGANTHY (I B.COM (CA)

**Place:** Perambai

**Date:** 10.06.2022

Yours faithfully



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE


Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

11.06.2022

## CIRCULAR

It is hereby informed that our Commerce (CA) is going to conduct the value added course on "HEALTH AND NUTRITION" for I B.COM (CA) students. Hence the students of Business Administration have to enroll their name to the course coordinator on or before 10.06.2022.

I B.COM (CA)., - Health and Nutrition



Principal

Copy to

1. Principal
2. Office
- 3...Department of Commerce (CA)



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.

## ABOUT THE INSTITUTION

RAAK Arts and Science is a Co-Education College affiliated to Annamalai University, Vellore, and We started with 5 UG courses and 180 students which have now grown up offering 2 UG courses, 7 PG Courses and 2 Ph.D., Courses with and overall strength of around 1500 students. We strive to produce graduates in different streams building strong moral values, well-disciplined with quality education to make them a complete human to face the challenges of the world with courage and commitment and help them lead a successful life building a good society.

## ABOUT THE DEPARTMENT

RAAK Arts and Science College offers B. Com. (CA) Programmes and is manned by experienced and resourceful faculties, with a large number of publications including creative writings and translations. B.Com Computer Applications is a three-year full-time undergraduate program that deals with studying various aspects of computer science along with Commerce. It is a combination of Commerce and computer applications for commerce disciplines that require knowledge of computers. This course is designed to equip students with integrated knowledge of commerce and computer systems. In addition, this course offers ample job opportunities in the IT and Commerce industry. Upon completing the course, students can work as Business Analyst, Business

- To appreciate the importance of balanced diet



RAAK ARTS AND SCIENCE COLLEGE  
VILLIANUR POST-605 110 PERAMBAL

Consultant, Auditor, Computer Programmer, App Developer, etc.

## OBJECTIVE OF THE VALUE ADDED COURSE

- To improve employability skills of students.
- To bridge the skill gaps and make students industry ready.
- To provide an opportunity to students to develop inter-disciplinary skills

## ABOUT THE COURSE

Health and nutrition is a broad topic that includes the study of how food and nutrients affect the body and how that affects health. Nutrition science, also known as human nutrition, is the study of how the body nourishes itself, how nutrients interact with each other, and how they balance in relation to health and disease. Health is a state of complete physical, mental, and social well-being, and not just the absence of disease.

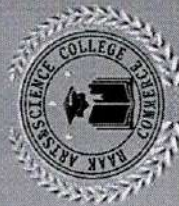
- To understand the role of nutrition in weight management, diabetes and cardio vascular disease.

Course:  
**HEALTH AND NUTRITION**

Venue:  
**CLASS ROOM**  
Department of Commerce (CA)  
RAAK Arts & Science College

Start: 13.06.2022 to 19.07.2022

Organized by



Department of Commerce (CA)  
RAAK Arts & Science College



PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS HEALTH AND NUTRITION

Unit 1

(5 hrs)

### Introduction to health and nutrition

Explanation of terms- Health, Nutrient requirement, Dietary standards, Recommended Dietary Allowance, Balanced diet Food Groups, Functions of food, Food guides-Food pyramid and Food in relation to health

Unit 2

(7 hrs)

### Planning a balanced diet

Principles of planning a diet, Guidelines for planning a balanced diet, Food Exchange list, Steps in planning a diet.

Unit 3

(6 hrs)

### Nutritional and Food Requirements of Adults

Reference man and woman - Classification of activities based on occupation- Nutritional requirements of adults- Importance of functional foods.

Unit 4

(7 hrs)

### Nutrition and Weight management

Over nutrition-Obesity: Aetiology, Assessment- Body weight, BMI, Waist circumference, Diet therapy- principles of dietetic management and dietary guidelines Under nutrition- Under Weight: Limitations of underweight, Aetiology, Nutritional and food requirement, Dietary guidelines

Unit 5

(6 hrs)

### Fitness for health

Fitness- Types and Components. Role in prevention of disease and health promotion Yoga for fitness, Role of exercise, dance, games and martial arts in fitness.

COURSE COORDINATOR

HOD



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

FROM

Mrs.SANGEETHA A  
Head & Assistant Professor,  
Department of Commerce (CS),  
Raak Arts and Science College,  
Perambai – 605110

TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

SUB: Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your notice that we have planned to conduct a Value Added Course on "Budgeting & Scheduling Project" for I,II & III B.Com (CS) students. This course is very useful for students to develop their knowledge about their future study. So please give the permission for the above said program.

Thanking you

Course Name: Budgeting & Scheduling Project

Name of the Coordinator: Mrs.E.Komatheswary

Assistant Professor (B.Com (CS))

Place: Perambai

Date: 19.12.2022

Yours Faithfully

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

22.12.2022

## CIRCULAR

It is hereby informed that our B.Com (CS) is going to conduct the value added course on "Budgeting & Scheduling Project - Opportunities & Challenges" for I,II & III B.com (CS) students. Hence the students of B.Com (CS) have to enroll their name to the course coordinator on or before 29.12.2022.

I,II & III B.Com (CS), - Budgeting & Scheduling Project

Principal

Copy to

1. Principal
2. Office
- 3..Department of Commerce (CS)



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## About the College

RAAK Arts and Science College was established in the year 2009; it was affiliated to Thiruvalluvar University, Vellore, Tamil Nadu, India. It started with five Under Graduate degree Programs and 180 students. Today, the college is offering more than eleven Under Graduate degree Programs, three Post Graduate Degree Programs and two Ph.D. Degree Programs. The college has been fostering graduates in Arts, Sciences, Commerce, Business Administration, Social Work, Information Technology and Computer Science. This has resulted in interdisciplinary environment that promotes cross disciplinary learning and research environment to the students. RASC is located in a green campus that has all the necessary infrastructure including laboratories, ICT classrooms, transport facilities etc.

## About the Department

The Department of corporate secretary ship was established in 2017. The B.com CS course is offered so as to reflect progress in fields of business marketing, income tax, company law and entrepreneurial development and other technological trends as an increasing demand of the job markets. The department is working to enrich and strengthen the young talents by producing competent students to excel in corporate and entrepreneurial skills. Our students are provided opportunity to do online, short term and value added courses. The course will make the students competent taking up wide range of responsible position in the secretarial, Legal, finance, accounts, Personnel, administrative & security market analyst

## AGENDA

### Day 1 to 10

Introduction to Project Budgeting and Scheduling

Overview of Project Management - Project Budgeting Basics - Project Scheduling Fundamentals - Indian Perspective on Project Management

Project Budget Development

Cost Estimation Techniques - Budget Allocation and Resource Planning - Budget Monitoring and Control

### Day 11 to 20

Project Scheduling Techniques

Critical Path Method (CPM) - Program Evaluation and Review Technique (PERT) - Resource Leveling and Smoothing

Tools and Software for Budgeting and Scheduling

Project Management Software - Spreadsheet Applications - Collaboration and Communication Tools

### Day 21 to 30

Advanced Topics and Case Studies

Risk Management in Project Budgeting and Scheduling - Agile Project Management - Case Studies of Indian Projects - Final Project and Presentation

Assessment Test will be conducted for 30 minutes with multiple choice questions. No negative marks.



RAAK ARTS AND SCIENCE COLLEGE  
Recognized under 2(f) of UGC Act - 1956  
(Affiliated to Thiruvalluvar University | ISO  
9001: 2015 Certified Institution)  
Perambai - 605110, Villupuram dt, Tamilnadu  
(A Unit of Farouk Educational Trust)

DEPARTMENT OF  
COMMERCE (CS)

## BUDGETING & SCHEDULING PROJECT

FROM 04/01/2023  
TO 21/02/2023

ALL ARE WELCOME



  
PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

### BUDGETING AND SCHEDULING PROJECT

Unit 1: Introduction to Project Budgeting and Scheduling (6 hours)

Overview of Project Management - Project Budgeting Basics - Project Scheduling Fundamentals - Indian Perspective on Project Management

Unit 2: Project Budget Development (6 hours)

Cost Estimation Techniques - Budget Allocation and Resource Planning - Budget Monitoring and Control

Unit 3: Project Scheduling Techniques (6 hours)

Critical Path Method (CPM) - Program Evaluation and Review Technique (PERT) - Resource Leveling and Smoothing

Unit 4: Tools and Software for Budgeting and Scheduling (6 hours)

Project Management Software - Spreadsheet Applications - Collaboration and Communication Tools

Unit 5: Advanced Topics and Case Studies (6 hours)

Risk Management in Project Budgeting and Scheduling - Agile Project Management - Case Studies of Indian Projects - Final Project and Presentation

#### Reference Books

1. Project Management: A Managerial Approach by K. Nagarajan
2. Project Management: Planning and Control Techniques by R. L. Narasimhan

  
COURSE COORDINATOR

  
HOD



  
PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

### FROM

Mrs.G.SUGUNA,  
Assistant Professor,  
DEPARTMENT OF COMPUTER APPLICATION  
Raak Arts and Science College,  
Perambai – 605110

### TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on **“CYBER SECURITY “for II & III BCA** students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name: “CYBER SECURITY**

**Name of the Co-ordinator: MRS.G.SUGUNA**

**Place: Perambai**

**Date: 25/08/2021**

Yours Faithfully



  
  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

26/08/2021

## CIRCULAR

It is hereby informed that our Computer Application department is going to conduct the value added course on "CYBER SECURITY" for II & III BCA students. Hence the students of Computer Application have to enroll their name to the course coordinator on or before 30/08/2021

II & III BCA

Principal

Copy to

1. Principal
2. Office
3. CS&BCA



PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## About the College

RAAK Arts and Science College was established in the year 2009; it was affiliated to Thiruvalluvar University, Vellore, Tamil Nadu, India. It started with five Under Graduate degree Programs and 180 students. Today, the college is offering more than eleven Under Graduate degree Programs, three Post Graduate Degree Programs and two Ph.D. Degree Programs. The college has been fostering graduates in Arts, Sciences, Commerce, Business Administration, Social Work, Information Technology and Computer Science. This has resulted in interdisciplinary environment that promotes cross disciplinary learning and research environment to the students. RASC is located in a green campus that has all the necessary infrastructure including laboratories, ICT classrooms, transport facilities etc.

## About the Department

Computer science is a dynamic and rapidly growing area that has become an integral part of the world today. It is an interdisciplinary application and utility of computer programming that has transformed every aspect of human life including biology, businesses, cyber security, economics, engineering, information assurance, languages and linguistics, mathematics, physics, public policy, etc. Today, programming and digitalization are used to address a wider range of complex issues. Technology has made the world better, faster, and more connected. But this didn't happen by magic. It has been achieved to the brilliant minds of IT graduates, who took their passion for technology and used it to create gadgets and computer programs that help the society

## AGENDA

### Day 1 to 10

Overview of Ethical Hacking-Definition and objectives-History and evolution of hacking-Ethical hacking vs. malicious hacking- Legal and Ethical Issues- Legal implications and laws-Ethical responsibilities. Network Scanning -Types of scanning (port, network, vulnerability scanning)-Scanning tools and techniques- Interpreting scan results-Enumeration- Enumeration techniques

### Day 11 to 20

Gaining Access-Password cracking techniques-Exploiting vulnerabilities-Privilege escalation-Maintaining Access-Backdoors and rootkits-Trojan horses Inserting, updating, and deleting data.-Transaction control and concurrency. Types of Malware-Viruses, worms, and Trojans- Ransom ware and spyware -Rootkits and backdoors-Malware Analysis -Static and dynamic analysis

### Day 21 to 30

Wireless Network Security-Wireless encryption standards -Wi-Fi authentication and security protocols-Attacking Wireless Networks -WEP, WPA/WPA2 cracking



**RAAK ARTS AND SCIENCE COLLEGE**  
Recognized under 2(f) of UGC Act - 1956  
(Affiliated to Thiruvalluvar University,  
Annamalai University | ISO 9001: 2015  
Certified Institution)  
Perambai – 605110, Villupuram dt, Tamilnadu  
(A Unit of Farouk Educational Trust)

**DEPARTMENT OF COMPUTER  
APPLICATION**

**VALUE ADDED COURSE  
CYBER SECURITY**

**FROM 01/02/2023**

**TO 10/03/2023**

**ALL ARE WELCOME**



  
**PRINCIPAL**  
**RAAK ARTS & SCIENCE COLLEGE**  
**VILLIANUR POST-605 110**  
**PERAMBAL.**





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

**Course Title: CYBER SECURITY SYLLABUS**

**Course Description:** An CYBER SECURITY syllabus typically covers a range of topics related to the administration, development, and management of CYBER SECURITYs.

**Course Duration: 30 HOURS**

**UNIT 1 Introduction to CYBER SECURITY Hrs.: 6**

Overview of Cyber security Concepts- Importance of Cyber security-Evolution of Cyber Threats

**UNIT 2 Basics of Networking Hrs.: 6**

Introduction to Networking Concepts-OSI Model-TCP/IP Protocol Suite-Network Devices and Topologies

**UNIT 3 Cryptography Hrs.: 6**

Fundamentals of Cryptography-Symmetric and Asymmetric Encryption-Public Key Infrastructure (PKI)- Digital Signatures and Certificates

**UNIT 4 Web Security Hrs.: 6**

Common Web Vulnerabilities (e.g., XSS, CSRF)-Secure Coding Practices-Web Application Firewalls (WAF)- Secure Web Protocols (HTTPS)

**UNIT 5 Malware Threats Hrs.: 6**

Types of Malware-Viruses, worms, and Trojans- Ransom ware and spyware -Rootkits and backdoors-Malware Analysis -Static and dynamic analysis

## REFERENCES

- 1 "The Basics of Hacking and Penetration Testing" by Patrick Engebretson
- 2 CYBER SECURITY and Penetration Testing Guide" by Rafay Baloch



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## VALUE ADDED COURSE(2022- 2023)

### CYBER SECURITY

### SUMMARY REPORT

Technology has become a part our daily life along with growing civilization. In which our education system brings technological changes very fast. These developments in the field of Computer Science will be very useful for Students. In particular, we can easily find various information's easily in CYBER SECURITY. Through which we can present and share our views and thoughts via DATABASE

CO-ORDINATOR

HOD



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

01.02.2023

## CIRCULAR

It is hereby informed that our Computer Application department is going to conduct the value added course on "ADVANCED MS-EXCEL" for I BCA students. Hence the students of Computer science have to enroll their name to the course coordinator on or before 04.02.2023.

I BCA-"ADVANCED MS-EXCEL"

Principal

### Copy to

1. Notice Board
2. Office
3. IQAC Coordinator
4. BCA HoD (To circulate among all the students)



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## BROCHURE

### About the College

RAAK Arts and Science College was established in the year 2009; it was affiliated to Thiruvalluvar University, Vellore, Tamil Nadu, and India. It started with five Under Graduate degree Programs and 180 students. Today, the college is offering more than eleven Under Graduate degree Programs, three Post Graduate Degree Programs and two Ph.D. Degree Programs. The college has been fostering graduates in Arts, Sciences, Commerce, Business Administration, Social Work, Information Technology and Computer Science. This has resulted in interdisciplinary environment that promotes cross disciplinary learning and research environment to the students. RASC is located in a green campus that has all the necessary infrastructure including laboratories, ICT classrooms, transport facilities etc.

### About the Department

Computer science is a dynamic and rapidly growing area that has become an integral part of the world today. It is an interdisciplinary application and utility of computer programming that has transformed every aspect of human life including biology, businesses, cyber security, economics, engineering, information assurance, languages and linguistics, mathematics, physics, public policy, etc. Today, programming and digitalization are used to address a wider range of complex issues. Technology has made the world better, faster, and more connected. But this didn't happen by magic. It has been achieved to the brilliant minds of IT graduates, who took their passion for technology and used it to create gadgets and computer programs that help the society

### AGENDA

#### Day 1 to 10

Advanced Formulas: Nested IF statements - SUMIFS, COUNTIFS, and AVERAGEIFS - Array formulas (e.g., SUMPRODUCT, TRANSPOSE), Logical and Lookup Functions: VLOOKUP, HLOOKUP, and XLOOKUP - INDEX and MATCH - INDIRECT and OFFSET

#### Day 11 to 20

Data Validation and Conditional Formatting : - Custom data validation rules - Advanced conditional formatting, Data Cleaning and Preparation : - Removing duplicates - Text-to-columns - Flash Fill Advanced Charting Techniques : - Combo charts - Waterfall, Funnel, and Radar charts - Sparkline's , Interactive Dashboards: - Using form controls (e.g., drop-downs, checkboxes) - Dynamic charts and data ranges,

#### Day 21 to 30

Statistical Analysis: Descriptive statistics (mean, median, mode, standard deviation) - Hypothesis testing (t-tests, chi-square tests) - Regression analysis, Scenario Analysis and What-If Analysis: Data tables (one-variable and two-variable) - Scenario Manager,

Macros and VBA: Recording and running macros - Introduction to VBA programming - Writing and debugging VBA code - Creating user forms and controls, Advanced Excel Integration: Linking Excel with Word and PowerPoint - Importing and exporting data from/to external sources (e.g., databases, web) - Using Power Query for automation



RAAK ARTS AND SCIENCE COLLEGE  
Recognized under 2(f) of UGC Act - 1956  
(Affiliated to Annamalai University | ISO 9001:  
2015 Certified Institution)  
Perambai - 605110, Villupuram dt, Tamilnadu  
(A Unit of Farouk Educational Trust)

DEPARTMENT OF COMPUTER  
APPLICATION

**VALUE ADDED COURSE**

**ADVANCED MS-EXCEL**

FROM 6/02/2023

TO 10/03/2023

ALL ARE WELCOME



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

Power Query : - Importing data from various sources - Data transformation techniques -  
Merging and appending queries

## Unit 3: Data Visualization and Dash boarding HRS: 6

Advanced Charting Techniques: - Combo charts - Waterfall, Funnel, and Radar charts -  
Sparklines , Interactive Dashboards: - Using form controls (e.g., drop-downs, checkboxes) -  
Dynamic charts and data ranges, Visualization Tools: - Using conditional formatting in charts -  
Creating heat maps, Visualization Best Practices : - Choosing the right chart type - Designing  
effective dashboards

## Unit 4: Data Analysis and Reporting HRS : 6

Statistical Analysis: Descriptive statistics (mean, median, mode, standard deviation) -  
Hypothesis testing (t-tests, chi-square tests) - Regression analysis, Scenario Analysis and What-  
If Analysis: Data tables (one-variable and two-variable) - Scenario Manager, Solver and  
Optimization : Setting up and solving optimization problems - Sensitivity analysis, Using Power  
Pivot : - Creating data models - Using DAX functions - Creating calculated columns and  
measures , Data Tables and Simulations : - Monte Carlo simulations - Using data tables for  
simulation analysis

## Unit 5: Automation and Integration HRS : 6

Macros and VBA: Recording and running macros - Introduction to VBA programming - Writing  
and debugging VBA code - Creating user forms and controls, Advanced Excel Integration:  
Linking Excel with Word and PowerPoint - Importing and exporting data from/to external  
sources (e.g., databases, web) - Using Power Query for automation, Collaboration and Sharing:  
Sharing and protecting workbooks - Tracking changes and comments - Using Excel Online and



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

OneDrive for collaboration, Advanced Security and Protection:- Protecting sheets and workbooks - Data encryption - Digital signatures

## Recommended Resources

**Excel 2019 Bible** by Michael Alexander, Richard Kusleika, and John Walkenbach  
Comprehensive guide to Excel features and advanced functions.

**Excel 2019 Power Programming with VBA** by Michael Alexander and Dick Kusleika Focuses on VBA programming and automation in Excel.

**Excel Data Analysis for Dummies** by Stephen L. Nelson and E. C. Nelson Practical approach to data analysis techniques in Excel.

**Microsoft Excel 2019 Step by Step** by Curtis Frye Step-by-step instructions for mastering Excel, suitable for beginners and advanced users.



  
— **PRINCIPAL**  
**RAAK ARTS & SCIENCE COLLEGE**  
**VILLIANUR POST-605 110**  
**PERAMBAL.**



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## DEPARTMENT OF COMPUTER APPLICATION

Course Title: **ADVANCED MS-EXCEL**

### REPORT

Technology has become a part our daily life along with growing civilization. In which our education system brings technological changes very fast. These developments in the field of Computer Science and Technology will be very useful for Students. In particular, we can easily find various information's easily by learning this course. Through which we can enrich our ideas and thoughts in depth.



CO-ORDINATOR

HOD



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

### FROM

Mrs. R. SUGANYA  
Assistant Professor,  
Department of computer science & Applications  
Raak Arts and Science College,  
Perambai – 605110

### TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on “3D TECHNOLOGY” for II & III B.SC CS students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name:** “3D TECHNOLOGY”

**Name of the Co-ordinator:**

Mrs.R.SUGANYA

**Place:** Perambai

**Date:** 30.01.2023



Yours Faithfully

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

31.01.2023

## CIRCULAR

It is hereby informed that our Computer Science department is going to conduct the value added course on "3D TECHNOLOGY" for II&III B.SC CS students. Hence the students of Computer science have to enroll their name to the course coordinator on or before 2.02.2023.

II & III B.SC CS - "3D TECHNOLOGY"

Principal

Copy to

1. Principal
2. Office
3. B.SC CS



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## About the College

RAAK Arts and Science College was established in the year 2009; it was affiliated to Thiruvalluvar University, Vellore, Tamil Nadu, India. It started with five Under Graduate degree Programs and 180 students. Today, the college is offering more than eleven Under Graduate degree Programs, three Post Graduate Degree Programs and two Ph.D. Degree Programs. The college has been fostering graduates in Arts, Sciences, Commerce, Business Administration, Social Work, Information Technology and Computer Science. This has resulted in interdisciplinary environment that promotes cross disciplinary learning and research environment to the students. RASC is located in a green campus that has all the necessary infrastructure including laboratories, ICT classrooms, transport facilities etc.

## About the Department

Computer science is a dynamic and rapidly growing area that has become an integral part of the world today. It is an interdisciplinary application and utility of computer programming that has transformed every aspect of human life including biology, businesses, cyber security, economics, engineering, information assurance, languages and linguistics, mathematics, physics, public policy, etc. Today, programming and digitalization are used to address a wider range of complex issues. Technology has made the world better, faster, and more connected. But this didn't happen by magic. It has been achieved to the brilliant minds of IT graduates, who took their passion for technology and used it to create gadgets and

## AGENDA

### Day 1 to 10

#### Day 1 to 10

#### Introduction to 3D Technology

Overview of 3D technology- History and evolution - Applications in various industries - Basic principles of 3D modeling, animation, and rendering

#### Modeling Fundamentals

Introduction to 3D modeling software (e.g., Blender, Maya) - Understanding different modeling techniques (polygonal, NURBS, sculpting) - Creating basic 3D models - Texturing and materials for 3D models

### Day 11 to 20

#### 3D Animation Basics

Basics of animation principles - Keyframe animation techniques - Rigging and skeletal animation - Basic character animation  
Rendering pipelines and techniques-Lighting and shading principles-Overview of rendering engines (e.g., Arnold, V-Ray)  
-Post-processing and compositing for final renders

### Day 21 to 30

Introduction to virtual reality (VR) and augmented reality (AR)-3D printing technologies and applications-Motion capture techniques-Industry trends and emerging technologies in 3D



**RAAK ARTS AND SCIENCE COLLEGE**  
Recognized under 2(f) of UGC Act - 1956  
(Affiliated to Thiruvalluvar University,  
Annamalai University | ISO 9001: 2015 Certified  
Institution)  
Perambai - 605110, Villupuram dt, Tamilnadu  
(A Unit of Farouk Educational Trust)

## DEPARTMENT OF COMPUTER SCIENCE

## VALUE ADDED COURSE

### 3D TECNOLOGY

FROM 01/02/2023

TO 10/03/2023

ALL ARE WELCOME



*J.M.*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

### Course Title: 3D TECHNOLOGY Syllabus

#### Course Overview

The **3D TECHNOLOGY** is designed to provide hands-on experience with various software tools and applications commonly used in the industry. Students will learn practical skills related to software development, testing, and deployment.

#### Course Duration

**Duration:** 30 hrs

#### Unit 1: Introduction to 3D Technology

**Hrs:6**

Overview of 3D technology- History and evolution - Applications in various industries - Basic principles of 3D modeling, animation, and rendering

#### Unit 2: 3D Modeling Fundamentals

**Hrs:6**

Introduction to 3D modeling software (e.g., Blender, Maya) - Understanding different modeling techniques (polygonal, NURBS, sculpting) - Creating basic 3D models - Texturing and materials for 3D models

#### Unit 3: 3D Animation Basics

**Hrs:6**

Basics of animation principles - Keyframe animation techniques - Rigging and skeletal animation - Basic character animation

#### Unit 4: 3D Rendering and Visualization

**Hrs:6**

Rendering pipelines and techniques - Lighting and shading principles - Overview of rendering engines (e.g., Arnold, V-Ray) - Post-processing and compositing for final renders

#### Unit 5: Advanced Topics in 3D Technology

**Hrs:6**

Introduction to virtual reality (VR) and augmented reality (AR) - 3D printing technologies and applications - Motion capture techniques - Industry trends and emerging technologies in 3D

#### Recommended Resources

- Textbooks: Refer to standard textbooks on software engineering, programming languages, and database management.
- Online tutorials: Explore platforms like Coursera, edX, and YouTube for additional learning materials.



*Jann.*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## VALUE ADDED COURSE(2022 -2023)

### 3D TECHNOLOGY

### SUMMARY REPORT

Technology has become a part our daily life along with growing civilization. In which our education system brings technological changes very fast. These developments in the field of Computer Science And Technology will be very useful for Students. In particular, we can easily find various information's easily by learning this course. Through which we can enrich our ideas and thoughts in depth.



  
CO-ORDINATOR

  
HOD



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

### FROM

Mrs.S.RAMYA,  
Assistant Professor,  
Department of computer science  
Raak Arts and Science College,  
Perambai – 605110

### TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on “**WORD PROCESSING**” for I B.SC CS students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name: “WORD PROCESSING”**

**Name of the Co-ordinator: Mrs.S.RAMYA**

**Place:** Perambai

**Date:** 25/10/2022

Yours Faithfully



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

25.10.2022

## CIRCULAR

It is hereby informed that our Computer science department is going to conduct the value added course on “**WORD PROCESSING**” for I BSC CS students. Hence the students of Computer science have to enroll their name to the course coordinator on or before 27 .10.2022

I BSC CS- “**WORD PROCESSING**”

Principal

Copy to

1. Principal
2. Office
3. BSC CS



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## About the College

RAAK Arts and Science College was established in the year 2009; it was affiliated to Thiruvalluvar University, Vellore, Tamil Nadu, India. It started with five Under Graduate degree Programs and 180 students. Today, the college is offering more than eleven Under Graduate degree Programs, three Post Graduate Degree Programs and two Ph.D. Degree Programs. The college has been fostering graduates in Arts, Sciences, Commerce, Business Administration, Social Work, Information Technology and Computer Science. This has resulted in interdisciplinary environment that promotes cross disciplinary learning and research environment to the students. RASC is located in a green campus that has all the necessary infrastructure including laboratories, ICT classrooms, transport facilities etc.

## About the Department

Computer science is a dynamic and rapidly growing area that has become an integral part of the world today. It is an interdisciplinary application and utility of computer programming that has transformed every aspect of human life including biology, businesses, cyber security, economics, engineering, information assurance, languages and linguistics, mathematics, physics, public policy, etc. Today, programming and digitalization are used to address a wider range of complex issues. Technology has made the world better, faster, and more connected. But this didn't happen by magic. It has been achieved to the brilliant minds of IT graduates, who took their passion for technology and used it to create gadgets and computer programs that help the society

## AGENDA

### Day 1 to 10

Overview of word processing software- Understanding the user interface- Creating and saving documents-Basic Formatting- Text formatting (font styles, sizes, colors)- Paragraph formatting (alignment, indentation, spacing) - Using styles and themes Inserting and formatting tables- Adding and editing graphics- Aligning and wrapping text around objects - Using headers and footers - Inserting page numbers and watermarks

### Day 11 to 20

Applying advanced formatting options (columns, text boxes)- Using styles for consistent formatting- Customizing document properties- Tracking changes and comments- Creating mail merge documents- Using templates to streamline document creation- Personalizing documents with merge fields

### Day 21 to 30

Final project: Creating a professional document incorporating various formatting techniques learned throughout the course



**RAAK ARTS AND SCIENCE COLLEGE**  
Recognized under 2(f) of UGC Act - 1956  
(Affiliated to Thiruvalluvar University | ISO 9001:  
2015 Certified Institution)  
Perambai - 605110, Villupuram dt, Tamilnadu  
(A Unit of Farouk Educational Trust)

## DEPARTMENT OF COMPUTER SCIENCE

## VALUE ADDED COURSE

### WORD PROCESSING

FROM 2/11/2022

TO 22/12/2022

ALL ARE WELCOME



*Jm*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

### Course Title: WORD PROCESSING

#### Course Objectives:

- To develop proficiency in using word processing software.
- To understand the basic concepts and features of word processing.
- To learn formatting techniques for creating professional-looking documents.

#### Course Duration: 30 Hrs.

#### UNIT 1: Introduction to Word Processing

Overview of word processing software- Understanding the user interface- Creating and saving documents-Basic Formatting- Text formatting (font styles, sizes, colors)- Paragraph formatting (alignment, indentation, spacing) - Using styles and themes

#### UNIT 2: Working with Tables and Graphics

Inserting and formatting tables- Adding and editing graphics- Aligning and wrapping text around objects - Using headers and footers - Inserting page numbers and watermarks

#### UNIT 3: Advanced Formatting Techniques

Applying advanced formatting options (columns, text boxes)- Using styles for consistent formatting- Customizing document properties- Tracking changes and comments

#### UNIT 4: Mail Merge and Templates

Creating mail merge documents- Using templates to streamline document creation- Personalizing documents with merge fields

#### UNIT 5: Protecting documents with passwords and permissions

- Final project: Creating a professional document incorporating various formatting techniques learned throughout the course

#### Resources:

- Textbook: "Word Processing Essentials"
- Online tutorials and resources provided by the instructor
- Access to word processing software (Microsoft Word, Google Docs, etc.)



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## DEPARTMENT OF COMPUTER SCIENCE

### VALUE ADDED COURSE(2022 - 2023)

#### WORD PROCESSING

#### SUMMARY REPORT

Technology has become a part our daily life along with growing civilization. In which our education system brings technological changes very fast. These developments in the field of Computer Science And Technology will be very useful for Students. In particular, we can easily find various information's easily by learning this course. Through which we can enrich our ideas and thoughts in depth.

CO-ORDINATOR

HOD



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

### FROM

Mr. A. Saravanan,  
Head & Assistant Professor,  
Department of Mathematics,  
Raak Arts and Science College,  
Perambai – 605110

### TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on “**Mathematical Aptitude**” for III B.Sc., Mathematics students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name: “Mathematical Aptitude”**

**Name of the Co-ordinator:**

Mr. A. SARAVANAN

**Place:** Perambai

**Date :** 28.08.2022

Yours Faithfully

29.08.2022

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## CIRCULAR

It is hereby informed that our Mathematics department is going to conduct the value added course on "Mathematical Aptitude" for III B.Sc., Mathematics students. Hence the students of Mathematics have to enroll their name to the course coordinator on or before 31.08.2022.

1. III B.Sc., Mathematics - **Mathematical Aptitude**

Principal

Copy to

1. Principal
2. Office
3. Mathematics Department



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## About the College

RAAK Arts and Science College was established in the year 2009; it was affiliated to Thiruvalluvar University, Vellore, Tamil Nadu, India. It started with five Under Graduate degree Programs and 180 students. Today, the college is offering more than eleven Under Graduate degree Programs, three Post Graduate Degree Programs and two Ph.D. Degree Programs. The college has been fostering graduates in Arts, Sciences, Commerce, Business Administration, Social Work, Information Technology and Computer Science. This has resulted in interdisciplinary environment that promotes cross disciplinary learning and research environment to the students. RASC is located in a green campus that has all the necessary infrastructure including laboratories, ICT classrooms, transport facilities etc.

## About the Department

The Mathematics Department is a dynamic and rapidly growing field that has become an integral part of modern society. Mathematics is an interdisciplinary application that has transformed every aspect of human life, from the natural sciences to the social sciences, and has had a profound impact on fields such as biology, computer science, economics, engineering, and physics. Technology has made the world faster, more connected, and more efficient. But this didn't happen by magic. It has been achieved through the brilliant minds of mathematicians who have developed algorithms, models, and statistical methods that power the computer programs and gadgets that we use every day, which are essential for success in today's rapidly changing world.

## AGENDA

### Day 1 to 10

Simplifying expressions-Factoring quadratic expressions- Solving linear equations and inequalities-Graphing linear equations. Basic geometry concepts (points, lines, angles, planes)- Properties of triangles -Properties of circles (center, radius, circumference)- Basic trigonometry

### Day 11 to 20

Basic number theory concepts (prime numbers, composite numbers, divisibility)-Modular arithmetic- Congruences and Diophantine equations. Angles and their relationships (sine, cosine, tangent)- Trigonometric identities (Pythagorean identity, sum and difference formulas)- Solving trigonometric equations

### Day 21 to 30

Problem-solving strategies- Applications of mathematical concepts to real-world problems- Critical thinking and analytical skills



RAAK ARTS AND SCIENCE COLLEGE  
Recognized under 2(f) of UGC Act - 1956  
(Affiliated to Thiruvalluvar University | ISO 9001:  
2015 Certified Institution)  
Perambai - 605110, Villupuram dt, Tamilnadu  
(A Unit of Farouk Educational Trust)

## DEPARTMENT OF MATHEMATICS

## VALUE ADDED COURSE

## MATHEMATICAL

## APTITUDE

FROM 4/09/2022  
TO 31/10/2022

ALL ARE WELCOME



*Jam*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

### Course Title: Mathematical Aptitude

**Course Description:** This course aims to assess the mathematical abilities of students, including problem-solving skills, logical reasoning, and analytical thinking. The course will cover a range of mathematical topics, including algebra, geometry, trigonometry, and number systems.

**Course Duration:** 30 Hours

#### UNIT: 1 Algebraic Manipulations (6 Hours)

Simplifying expressions-Factoring quadratic expressions- Solving linear equations and inequalities-Graphing linear equations

#### UNIT: 2 Geometry (6 Hours)

Basic geometry concepts (points, lines, angles, planes)-Properties of triangles (angles, sides, congruence)-Properties of circles (center, radius, circumference)-Basic trigonometry (sine, cosine, tangent)

#### UNIT:3 Number Systems (6 Hours)

Basic number theory concepts (prime numbers, composite numbers, divisibility)-Modular arithmetic-Congruences and Diophantine equations

#### UNIT: 4 Trigonometry (6 Hours)

Angles and their relationships (sine, cosine, tangent)- Trigonometric identities (Pythagorean identity, sum and difference formulas)- Solving trigonometric equations

#### UNIT: 5 Problem-Solving and Applications (6 Hours)

Problem-solving strategies- Applications of mathematical concepts to real-world problems- Critical thinking and analytical skills

### REFERENCES

1. "Mathematical Aptitude" by R.S. Aggarwal
2. "Mathematical Problem Solving: An Introduction to the Methods of Mathematical Research" by Richard A. Silverman
3. Online resources (e.g. Khan Academy, Mathway)



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## DEPARTMENT OF MATHEMATICS

### VALUE ADDED COURSE (2022 -2023)

#### MATHEMATICAL APTITUDE

#### SUMMARY REPORT

As technology has become an integral part of our daily lives, our education system has been rapidly embracing technological advancements. This has led to students developing a better understanding of mathematical concepts and enhancing their problem-solving skills. The course has also boosted the confidence of students, enabling them to take up and apply for PSC Tests and other competitive exams for governmental jobs. Furthermore, students appreciated the opportunity to apply mathematical concepts to real-world scenarios, making the learning experience more relevant and engaging.



  
CO-ORDINATOR

  
HOD



  
PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

**FROM:**

Dr. D.BARANITHARAN  
Head & Assistant Professor,  
Department of commerce  
Raak Arts and Science College,  
Perambai – 605110

**TO:**

The Principal,  
Raak Arts and Science College, Perambai – 605110

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

Respected Sir,

This is bringing to your kind notice that we have planned to conduct Value Added Courseon “TALLY with GST” for I M COM & II M COM students. This course is very useful for students to developing their knowledge about their future study. So please give the permissionfor above said programs.

Thanking you

**Course Name: “TALLY with GST”**

**Name of the Co-ordinator: DR. D. BARANITHARAN**

**Place:** Perambai

**Date:** 22.08.2022

Yours Faithfully

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.







# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

23.08.2022

## CIRCULAR

It is hereby informed that our Commerce department is going to conduct the value added course on "TALLY with GST" for I M COM & II M COM students. Hence the students of Commerce have to enroll their name to the course coordinator on or before 30.08.2022.

I M COM - "TALLY with GST"

II M COM - "TALLY with GST"

Principal

### Copy to

1. Principal
2. Office
3. Department of PG commerce



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## ABOUT THE INSTITUTION

RAAK Arts and Science a Co-Education College affiliated to Annamalai University, Vellore, and Govt. of TN launched in the year 2009. We started with 5 UG courses and 180 students which have now grown up offering 12 UG courses, 7 PG Courses and 2 Ph.D., Courses with and overall strength of around 1500 students. We strive to produce graduates in different streams building strong moral values, well-disciplined with quality education to make them a complete human to face the challenges of the world with courage and commitment and help them lead a successful life building a good society.

## ABOUT THE DEPARTMENT

RAAK Arts and Science College offers department of commerce (PG). Programmer and is manned by experienced and resourceful faculties, with a large number of publications including creative writings and translations. M.Com is a two-year full-time post graduate program that deals with studying various aspects of PG commerce along with Commerce. It is a combination of Commerce for commerce disciplines that require knowledge of computers. This course is designed to equip students with integrated knowledge of commerce. In addition, this course offers ample job opportunities in the Commerce industry. Upon completing.



The course, students can work as Business Analyst, Business Consultant, Auditor, Computer Programmer, App Developer, etc.

## OBJECTIVE OF THE VALUE ADDED COURSE

1. To understand The Constitutional Framework Time and Place of Supply Input Tax Credit.
2. Introduction to the Centre (Central GST), and the other levied by the States (State GST).
3. Develop an understanding of the fundamental principles of tax law, including income tax,

## ABOUT THE COURSE

Course Tally with GST refers to a training program designed to teach individuals how to use Tally, a popular accounting software, specifically for managing Goods and Services Tax (GST) compliance. The course covers various aspects of Tally's functionalities in relation to GST, including setting up company details, recording transactions, generating GST reports, and filing GST returns.

- Participants gain a thorough understanding of Tally software and GST compliance, enabling them to handle accounting and taxation tasks efficiently.
- Practical exercises and case studies help in applying theoretical knowledge to real-world scenarios skills.



RAAK

ARTS AND SCIENCE COLLEGE

ISO 9001:2015 Certified Institution || Recognized under 2(f) of UGC Act - 1956

Course:

**TALLY WITH GST**

Venue: CLASS ROOM

Date:01.09.2022

Department of Commerce  
(PG)  
RAAK Arts & Science  
College

Organized by



Department of Commerce  
(PG)  
RAAK Arts & Science College  
Perambai, Villianur

**ALL ARE WELCOME**

*Jm*

PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001 2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

### Course Title: TALLY with GST

#### Unit I

##### Fundamentals of Accounting:

Introduction – Accounting Terms – Accounting Assumptions, Concepts and Principles – Double Entry System of accounting – Types of accounts – The Golden Rules of Accounting – Source Documents of Accounting – Recording of Business Transactions – Ledger – Trail Balance – Subsidiary books – Financial Statements – Trading and Profit and Loss Accounts – Balance sheet.

#### Unit II

##### Maintaining Charts of Accounting in Tally ERP 9:

Introduction – Company Creation – Company Features and configurations – Charts of accounts – Ledger creation – Group creation – Displaying group and ledger – Deletion of groups and ledgers. Maintaining Stock Keeping Units (SKU): Introduction – Inventory masters in Tally ERP 9 - Creation Inventory Masters – Reports.

#### Unit III

##### Recording day to day Transactions in Tally ERP 9 :

Introduction – Business Transactions – Source Document or Voucher – Recording transactions in Tally ERP 9 – Accounting vouchers. Accounts Receivable and Payable Management: Introduction – Maintaining bill wise details – Activation of maintain bill wise details feature – New reference – Against reference – Advance – on account – Stock category Report – Changing the Financial year in Tally ERP 9.

#### Unit IV

##### Management Information System (MIS) :



*J.M.*  
PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

**Introduction – Advantages of Management Information System – MIS reports in Tally**

ERP 9 – Trail balance – Balance Sheet – Profit and Loss account – Cash flow statement – Ratio analysis – Books and Reports.

## Unit V

### Getting Started with GST:

Introduction – Enabling GST and Defining Tax Details – Transferring input tax credit to GST – Intrastate supply of goods – Interstate supply of goods – Return of goods – Suppliers inclusive of tax – Defining tax rates at master and transactions levels – GST Report – Input tax credit set off – GST tax payment – Exporting GSTR -1 return and uploading in GST portal – Accounting of supply services - Accounting Exempted Services. Recording Vouchers with TDS (Tax Deducted at Source): Introduction – Basic concepts of TDS – TDS in Tally ERP 9 – Activation of TDS features in Tally ERP 9 – TDS statutory masters – Configuring TDS at group level – Configuring TDS at ledger level – Booking of Expenses in Purchase Voucher – TDS Report.

COORDINATOR

HOD



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

### FROM

Mr. A. Saravanan,  
Head & Assistant Professor,  
Department of Mathematics,  
Raak Arts and Science College,  
Perambai – 605110

### TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on "Mathematical Logic" for I M.Sc., and II M.Sc., Mathematics students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name:** "Mathematical Logic"

Name of the Co-ordinator:

Mrs. K. VASANTHI

**Place:** Perambai

**Date :** 28.08.2022

Yours Faithfully

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

29.08.2022

## CIRCULAR

It is hereby informed that our Mathematics department is going to conduct the value added course on "Mathematical Logic " for I M.Sc., and II M.Sc., Mathematics students. Hence the students of Mathematics have to enroll their name to the course coordinator on or before 31.08.2022.

1. I M.Sc., Mathematics - **Mathematical Logic**
1. II M.Sc., Mathematics - **Mathematical Logic**

Principal

Copy to

1. Principal
2. Office
3. Mathematics Department



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## About the College

RAAK Arts and Science College was established in the year 2009; it was affiliated to Annamalai University, Chidambaram, Tamil Nadu, India. It started with five Under Graduate degree Programs and 180 students. Today, the college is offering more than eleven Under Graduate degree Programs, three Post Graduate Degree Programs and two Ph.D. Degree Programs. The college has been fostering graduates in Arts, Sciences, Commerce, Business Administration, Social Work, Information Technology and Computer Science. This has resulted in interdisciplinary environment that promotes cross disciplinary learning and research environment to the students. RASC is located in a green campus that has all the necessary infrastructure including laboratories, ICT classrooms, transport facilities etc.

## About the Department

The Mathematics Department is a dynamic and rapidly growing field that has become an integral part of modern society. Mathematics is an interdisciplinary application that has transformed every aspect of human life, from the natural sciences to the social sciences, and has had a profound impact on fields such as biology, computer science, economics, engineering, and physics. Technology has made the world faster, more connected, and more efficient. But this didn't happen by magic. It has been achieved through the brilliant minds of mathematicians who have developed algorithms, models, and statistical methods that power the computer programs and gadgets that we use every day, which are essential for success in today's rapidly changing world.

## AGENDA

### Day 1 to 10

Introduction to mathematical logic- Basic concepts: propositions, predicates, and logical operations- Example: Propositional Logic- Propositional logic: syntax, semantics, and rules of inference-Examples: valid and invalid arguments-Exercise: Formalize a simple argument

### Day 11 to 20

Predicate logic: syntax, semantics, and rules of inference-Examples: valid and invalid arguments-Exercise: Formalize a simple argument- Introduction to model theory-First-order model theory: syntax, semantics, and models-Examples: valid and invalid models-Gentzen's sequent calculus

### Day 21 to 30

Applications of mathematical logic in mathematics and computer science- Examples: formal verification, automated theorem proving, and program verification



RAAK ARTS AND SCIENCE COLLEGE  
Recognized under 2(f) of UGC Act - 1956  
(Affiliated to Annamalai University | ISO 9001:  
2015 Certified Institution)  
Perambai - 605110, Villupuram dt, Tamilnadu  
(A Unit of Farouk Educational Trust)

## DEPARTMENT OF MATHEMATICS

## VALUE ADDED COURSE MATHEMATICAL LOGIC

FROM 4/09/2022  
TO 31/10/2022

ALL ARE WELCOME



PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001 2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

**Course Title: Mathematical Logic**

**Course Description:** This course provides an introduction to mathematical logic, which is the study of the foundations of mathematics using formal systems and mathematical techniques.

**Course Duration:** 30 Hours

**UNIT: 1 Introduction to Mathematical Logic (6 Hours)**

Introduction to mathematical logic-Basic concepts: propositions, predicates, and logical operations- Example: Propositional Logic

**UNIT: 2 Propositional Logic (6 Hours)**

Propositional logic: syntax, semantics, and rules of inference-Examples: valid and invalid arguments-Exercise: Formalize a simple argument

**UNIT: 3 Predicate Logic (6 Hours)**

Predicate logic: syntax, semantics, and rules of inference-Examples: valid and invalid arguments-Exercise: Formalize a simple argument

**UNIT: 4 Model Theory (6 Hours)**

Introduction to model theory-First-order model theory: syntax, semantics, and models-Examples: valid and invalid models-Gentzen's sequent calculus

**UNIT: 5 Applications of Mathematical Logic (6 Hours)**

Applications of mathematical logic in mathematics and computer science- Examples: formal verification, automated theorem proving, and program verification

## REFERENCES

1. "Mathematical Logic" by Elliott Mendelson (Dover Publications)
2. "Logic: A Very Short Introduction" by Graham Priest
3. "Introduction to Mathematical Logic" by Elliott Mendelson



*Jan.*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## DEPARTMENT OF MATHEMATICS

### VALUE ADDED COURSE (2022 -2023)


#### MATHEMATICAL LOGIC

#### SUMMARY REPORT

As technology has become an integral part of our daily lives, our education system has been rapidly embracing technological advancements. This has led to students developing a better understanding of mathematical concepts and enhancing their problem-solving skills. The course has also boosted the confidence of students, enabling them to take up and apply for PSC Tests and other competitive exams for governmental jobs. Furthermore, students appreciated the opportunity to apply mathematical concepts to real-world scenarios, making the learning experience more relevant and engaging.



  
CO-ORDINATOR

  
HOD



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAI.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

FROM

Dr. SOUMYA DEVASIA  
Head & Assistant Professor,  
Department of Social Work  
Raak Arts and Science College,  
Perambai – 605110

TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir/ Madam,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on "Gerontology: Understanding Aging and Older Adults" for I MSW students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name: Gerontology: Understanding Aging and Older Adults**

**Name of the Co-ordinator: Dr. SOUMYA DEVASIA (I MSW)**

**Place:** Perambai

**Date:** 15.11.2022



*Jm*  
Yours Faithfully  
*Dr. Soumya Devasia*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

17.11.2022

## CIRCULAR

It is hereby informed that our Social Work is going to conduct the value added course on "Gerontology: Understanding Aging and Older Adults" for I MSW students. Hence the students of Social Work have to enroll their name to the course coordinator on or before 30.11.2022.

I MSW., - Gerontology: Understanding Aging and Older Adults

Principal

Copy to

1. Principal
2. Office
3. Department of Social Work



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## About Us

RAAK Arts and Science College (RASC), Perambai Tamil Nadu is currently affiliated to Thiruvalluvar University, Vellore, Tamil Nadu, India. The college was established in the year 2009.

Today, the college is offering more than Nine Under Graduate degree Programs, three Post Graduate Degree Programs and two Ph.D. Degree Programs. The college has been fostering graduates in Arts, Sciences, Commerce, Business Administration, Social Work, Information Technology and Computer Science. This has resulted in interdisciplinary environment that promotes cross disciplinary learning and research. At the Raak Arts and Science College, students can expect to receive a well-rounded education that prepares them for successful careers in their chosen fields. With a focus on affordability and accessibility, the institute provides a valuable education that is within reach of many students.

## About the Department

A Master of Social Work postgraduate degree program focusses on the core skills to work in a society. The curriculum emphasizes social work values, principles and methods that enable students to adopt strategies and interventions for creating positive workplaces, healthy employees and strong communities. With the right mix of theory, research and field work practicums, the graduates are well-equipped and therefore continue to be the 'graduates of choice' among our key stakeholders.

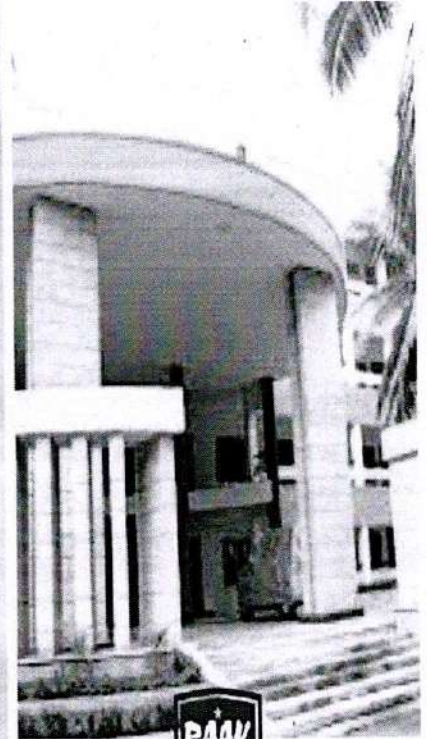
## AGENDA

### Days 1-15

In the first half of the course, students delve into the foundational aspects of gerontology. They explore various theories and historical attitudes towards aging, gaining insight into how biological processes contribute to aging and impact different body systems. The psychological and cognitive dimensions of aging are examined, along with the significance of social support networks and cultural perspectives on aging. Additionally, students explore the intersection of aging with public policy, end-of-life care issues, and ethical considerations in gerontology.

### Days 16-30

The second half of the course focuses on contemporary issues and practical applications in gerontology. Students investigate the role of technology in aging, emerging trends, and future directions in gerontological research and practice. They engage in applied gerontology through real-world scenarios and ethical discussions. Practical exercises and project preparations allow students to apply their knowledge and culminate in a final project presentation, offering a comprehensive understanding of gerontology and its implications for society.



## RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Annamalai Nagar, Chidambaram, Tamil Nadu, India  
A Unit of Farook Educational Trust

## VALUE ADDED COURSE

ON

Gerontology: Understanding  
Aging and Older Adults

FROM 05.12.2022 TO 24.01.2023

VENUE: CLASS ROOM

*All are welcome*

*Jan*

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

### Gerontology: Understanding Aging and Older Adults

**Unit 1 Introduction to Gerontology (5 hrs)**

Overview of Gerontology- Historical Perspective on Aging-Theories of Aging: Biological, Psychological and Social-Demographic trends in Aging – Cultural perspective on Aging

**Unit 2 Biological Aspects of Aging (7 hrs)**

Cellular and Molecular Theories of Aging- Physiological Changes in Aging: Cardiovascular, Musculoskeletal, and Sensory Systems-Common Health Conditions in Older Adults: Chronic Diseases, Disabilities, and Impairments-Nutrition and Aging: Dietary Needs, Nutritional Deficiencies, and Eating Disorders

**Unit 3 Psychological and Cognitive Aging (6 hrs)**

Cognitive Changes in Aging: Memory, Attention, and Executive Functioning-Psychosocial Development in Later Life: Erikson's Theory of Psychosocial Development-Mental Health and Aging: Depression, Anxiety, and Dementia-Personality and Aging: Stability and Change in Personality Traits

**Unit 4 Social Aspects of Aging (7 hrs)**

Social Theories of Aging: Activity Theory, Disengagement Theory, and Socioemotional Selectivity Theory-Social Roles and Transitions in Later Life: Retirement, Grandparenthood, and Widowhood-Social Support Networks: Family, Friends, and Community Resources-Ageism and Stereotypes: Negative Attitudes and Discrimination Toward Older Adults.

**Unit 5 Policy and Programs for Older Adults (6 hrs)**

Social Security and Retirement: History, Benefits, and Challenges-Medicare and Medicaid: Health Insurance Programs for Older Adults-Long-Term Care Services: Nursing Homes, Assisted Living Facilities, and Home Care Services-Aging in Place Initiatives: Age-Friendly Communities,



*J. J.*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

Universal Design, and Assistive Technologies.

Reference :

1. "Social Gerontology: A Multidisciplinary Perspective" – Nancy Hooyman, H. Asuman Kiyak
2. "Handbook of the Psychology of Aging" – K. Warner Schaie and Sherry L. Willis

**COURSE COORDINATOR**

**HOD**



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

## PERMISSION LETTER

### FROM

Mrs. R.SAKTHIDEVI  
Head & Assistant Professor,  
Department of computer science & Applications  
Raak Arts and Science College,  
Perambai – 605110

### TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on "INTRODUCTION TO PERL" for I&II M.SC(Computer Science) students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

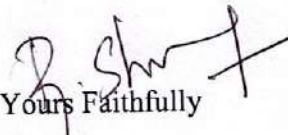
**Course Name:** "INTRODUCTION TO PERL "

**Name of the Co-ordinator:**

Mrs. R.SAKTHIDEVI

**Place:** Perambai

**Date:** 28.08.2022

  
Yours Faithfully



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

29.08.2022

## CIRCULAR

It is hereby informed that our Computer science department is going to conduct the value added course on "INTRODUCTION TO PERL" for I&II M.SC(Computer Science) students. Hence the students of Computer science have to enroll their name to the course coordinator on or before 31.08.2022.

I&II M.SC(Computer science)-"INTRODUCTION TO PERL"

Principal

Copy to

1. Principal
2. Office
3. CS&BCA



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

FROM

SUGANTHI,  
Head & Assistant Professor,  
Department of Business administration  
Raak Arts and Science College,  
Perambai – 605110

TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on "COMPUTATIONAL CHEMISTRY for I B.SC CHEMISTRY. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name: COMPUTATIONAL CHEMISTRY**

**Name of the Co-ordinator: SUGANTHI**

**Place: Perambai**

**Date: 28.08.2018**

Yours Faithfully



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

29.8.2018

## CIRCULAR

It is hereby informed that our CHEMISTRY is going to conduct the value added course on "COMPUTATIONAL CHEMISTRY" for IB.SC students. Hence the students of Business Administration have to enroll their name to the course coordinator on or before 31.08 .2018

I B.SC- COMPUTATIONAL CHEMISTRY

PRINCIPAL

Copy to

1. Principal
2. Office
- 3..Department of chemistry



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

### About the College

RAAK Arts and Science College was established in the year 2009; it was affiliated to Thiruvalluvar University, Vellore, Tamil Nadu, India. It started with five Under Graduate degree Programs and 180 students. Today, the college is offering more than eleven Under Graduate degree Programs, three Post Graduate Degree Programs and two Ph.D. Degree Programs. The college has been fostering graduates in Arts, Sciences, Commerce, Business Administration, Social Work, Information Technology and Computer Science. This has resulted in interdisciplinary environment that promotes cross disciplinary learning and research environment to the students. RASC is located in a green campus that has all the necessary infrastructure including laboratories, ICT classrooms, transport facilities etc

### About the Department

In its sojourn towards enthusing students' interest in the subject, the department has focused on three aspects: building a conceptually sound foundation of the subject knowledge; the importance of basic and applied research; and the benefits of the subject in development of the society. The department has adopted traditional as well as modern methods of teaching and has put a lot of emphasis on learning by doing. The seeds of research, entrepreneurship, innovations, team work and efficient working are sown by then qualified staff members by establishing a one to one interaction with students through mentoring sessions.

### AGENDA

#### Day 1 to 10

Introduction -Basic  
programming techniques-  
Numerical methods-Matrices-  
Numerical integration and  
Differential equations- Roots of  
equations, Random numbers,  
Integral transforms

#### Day 11 to 20

Molecular Dynamic  
simulations-A sample Molecular  
Dynamics Program- Monte  
Carlo Simulations-  
An example of  
Monte-Carlo simulations: The  
Langevin Dynamics- Viscosity  
of Polymeric Liquids through  
Monte-Carlo Simulations.

#### Day 21 to 30

Installation  
Gromacs, Packmole, VMD and  
Chemira- Computations of  
Radial Distributions Functions  
PMFs and Diffusion Constants -  
Molecular Dynamics simulation  
of water.

### DEPARTMENT OF CHEMISTRY



RAAK ARTS AND SCIENCE COLLEGE  
VILLIANUR POST-605 110 PERAMBAL

### VALUE ADDED COURSE ANALYTICAL TOOLS IN CHEMISTRY

FROM  
22/07/2  
022 TO  
17/09/2  
022

ALL ARE  
WELCOME



*Jan*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.

## SYLLABUS

### COMPUTATIONAL CHEMISTRY

#### Unit I: Introduction to Computational Chemistry

- Overview of computational chemistry , Historical development and applications , Basic principles of quantum mechanics ,Introduction tomolecular modeling techniques.

#### Unit II: Molecular Mechanics

- Force fields and energy minimization ,Molecular dynamics simulations
- Confirmation analysis , Parameterize of force fields.

#### Unit III: Quantum Mechanics

- Harte-Fock theory, Density functional theory, Post-mortem methods (MP2,CCSD), Basis sets and their importance.

#### Unit IV: Molecular Dynamics Simulations

- Classical and ab into molecular dynamics Sampling techniques (Monte Carlo,molecular dynamics), Analysis of simulation results, Applications in drug design and materials science.

#### Unit V: Electronic Structure Calculations

- Electronic structure methods (DFT, ab into)Solving the Schrodinger equationnumerically, Calculation of molecular properties (energies, geometries,spectra), Applications in spectroscopy and reaction mechanisms



COURSE COORDINATOR

  
HOD  
PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

## PERMISSION LETTER

FROM

Head of the Department,  
Department of MBA  
Raak Arts and Science College,  
Perambai – 605110

TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on "Six Sigma" for IMBA students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name: Six Sigma**

**Name of the Co-ordinator:**

Head of the Department - MBA

**Place:** Perambai

**Date:** 23.01.2023

Yours Faithfully



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

23.01.2023

## CIRCULAR

It is hereby informed that MBA department is going to conduct the value-added course on "Six Sigma" for I MBA students. Hence the students of MBA have to enroll their name to the course coordinator on or before 27.01.2023.

I-MBA., - Six Sigma

Principal

Copy to

1. Principal
2. Office
- 3..Department of MBA



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

## SYLLABUS

### Six Sigma

**Unit 1 Introduction to Six-Sigma (5 hrs)**

Introduction-six sigma and process tolerance- six sigma and cultural changes-six sigma capability- six sigma need assessments- DMAIC.

**Unit 2 Methodologies (7 hrs)**

Methodologies- (DFSS) Design for six sigma, design for six sigma method- Failure mode effect analysis (FMEA)- FMEA process.

**Unit 3 Implementation (6 hrs)**

Implementation and challenges- Tools for Implementation- Supplier Input Process Output Customer (SIPOC)- Quality Function Deployment or House of Quality (QFD)

**Unit 4 Strategy (6 hrs)**

Evaluation and Continuous Improvement Methods-Evaluation strategy- Return of six sigma (ROSS)- Economics of six sigma Quality- Continuous improvement.

**Unit 5 Case study (6 hrs)**

Case Studies and Real-World Applications

Reference :

1. "The Six Sigma Handbook" – Thomas Pyzdek, McGraw-Hill,2000
2. "Six Sigma, Basic Steps and Implementation" – Fred Soleimannejed, Author House,2004

  
COURSE COORDINATOR

  
HOD



  
PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## PERMISSION LETTER

FROM

Dr. SOUMYA DEVASIA  
Head & Assistant Professor,  
Department of Social Work  
Raak Arts and Science College,  
Perambai – 605110

TO

The Principal,  
Raak Arts and Science College,  
Perambai – 605110

Respected Sir/ Madam,

**SUB:** Requesting permission for conducting Value Added Course for students - Reg.

This is bringing to your kind notice that we have planned to conduct Value Added Course on "Gerontology: Understanding Aging and Older Adults" for IMSW students. This course is very useful for students to developing their knowledge about their future study. So please give the permission for above said programs.

Thanking you

**Course Name: Gerontology: Understanding Aging and Older Adults**

**Name of the Co-ordinator: Dr. SOUMYA DEVASIA (I MSW)**

**Place:** Perambai

**Date:** 15.11.2022



*Jm*  
**PRINCIPAL**  
**RAAK ARTS & SCIENCE COLLEGE**  
**VILLIANUR POST-605 110**  
**PERAMBAL.**

Yours Faithfully

*P. Soumya Devasia*





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001 2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

17.11.2022

## CIRCULAR

It is hereby informed that our Social Work is going to conduct the value added course on "Gerontology: Understanding Aging and Older Adults" for I MSW students. Hence the students of Social Work have to enroll their name to the course coordinator on or before 30.11.2022.

I MSW., - Gerontology: Understanding Aging and Older Adults

Principal

Copy to

1. Principal
2. Office
3. Department of Social Work



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VIVILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## About Us

RAAK Arts and Science College (RASC), Perambai Tamil Nadu is currently affiliated to Thiruvalluvar University, Vellore, Tamil Nadu, India. The college was established in the year 2009.

Today, the college is offering more than Nine Under Graduate degree Programs, three Post Graduate Degree Programs and two Ph.D. Degree Programs. The college has been fostering graduates in Arts, Sciences, Commerce, Business Administration, Social Work, Information Technology and Computer Science. This has resulted in interdisciplinary environment that promotes cross disciplinary learning and research. At the Raak Arts and Science College, students can expect to receive a well-rounded education that prepares them for successful careers in their chosen fields. With a focus on affordability and accessibility, the institute provides a valuable education that is within reach of many students.

## About the Department

A Master of Social Work postgraduate degree program focusses on the core skills to work in a society. The curriculum emphasizes social work values, principles and methods that enable students to adopt strategies and interventions for creating positive workplaces, healthy employees and strong communities. With the right mix of theory, research and field work practicums, the graduates are well-equipped and therefore continue to be the 'graduates of choice' among our key stakeholders.



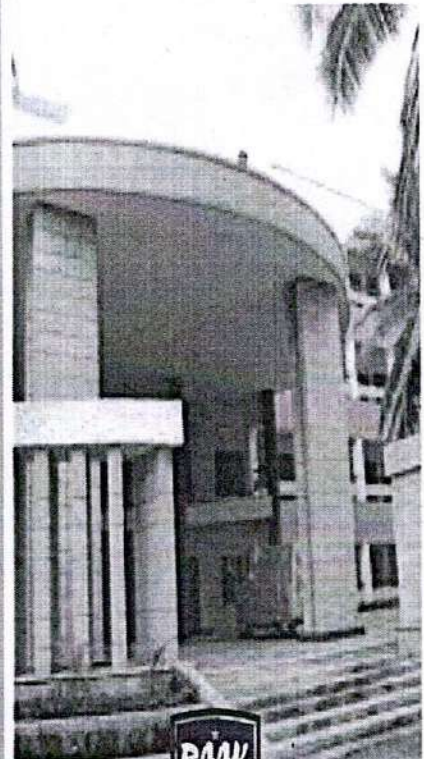
## AGENDA

### Days 1-15

In the first half of the course, students delve into the foundational aspects of gerontology. They explore various theories and historical attitudes towards aging, gaining insight into how biological processes contribute to aging and impact different body systems. The psychological and cognitive dimensions of aging are examined, along with the significance of social support networks and cultural perspectives on aging. Additionally, students explore the intersection of aging with public policy, end-of-life care issues, and ethical considerations in gerontology.

### Days 16-30

The second half of the course focuses on contemporary issues and practical applications in gerontology. Students investigate the role of technology in aging, emerging trends, and future directions in gerontological research and practice. They engage in applied gerontology through real-world scenarios and ethical discussions. Practical exercises and project preparations allow students to apply their knowledge and culminate in a final project presentation, offering a comprehensive understanding of gerontology and its implications for society.



## RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Annamalai Nagar, Chidambaram, Tamil Nadu, India  
A Unit of Farouk Educational Trust

### VALUE ADDED COURSE

ON

Gerontology: Understanding  
Aging and Older Adults

FROM 05.12.2022 TO 24.01.2023

VENUE: CLASS ROOM

All are welcome

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBALAI.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## SYLLABUS

### Gerontology: Understanding Aging and Older Adults

**Unit 1 Introduction to Gerontology (5 hrs)**

Overview of Gerontology- Historical Perspective on Aging-Theories of Aging: Biological, Psychological and Social-Demographic trends in Aging – Cultural perspective on Aging

**Unit 2 Biological Aspects of Aging (7 hrs)**

Cellular and Molecular Theories of Aging- Physiological Changes in Aging: Cardiovascular, Musculoskeletal, and Sensory Systems-Common Health Conditions in Older Adults: Chronic Diseases, Disabilities, and Impairments-Nutrition and Aging: Dietary Needs, Nutritional Deficiencies, and Eating Disorders

**Unit 3 Psychological and Cognitive Aging (6 hrs)**

Cognitive Changes in Aging: Memory, Attention, and Executive Functioning-Psychosocial Development in Later Life: Erikson's Theory of Psychosocial Development-Mental Health and Aging: Depression, Anxiety, and Dementia-Personality and Aging: Stability and Change in Personality Traits

**Unit 4 Social Aspects of Aging (7 hrs)**

Social Theories of Aging: Activity Theory, Disengagement Theory, and Socioemotional Selectivity Theory-Social Roles and Transitions in Later Life: Retirement, Grandparenthood, and Widowhood-Social Support Networks: Family, Friends, and Community Resources-Ageism and Stereotypes: Negative Attitudes and Discrimination Toward Older Adults.

**Unit 5 Policy and Programs for Older Adults (6 hrs)**

Social Security and Retirement: History, Benefits, and Challenges-Medicare and Medicaid: Health Insurance Programs for Older Adults-Long-Term Care Services: Nursing Homes, Assisted Living Facilities, and Home Care Services-Aging in Place Initiatives: Age-Friendly Communities,



**PRINCIPAL**

RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

Universal Design, and Assistive Technologies.

Reference :

1. "Social Gerontology: A Multidisciplinary Perspective" – Nancy Hooyman, H. Asuman Kiyak
2. "Handbook of the Psychology of Aging" – K. Warner Schaie and Sherry L. Willis

COURSE COORDINATOR

HOD



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001 2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.



## RAAK ARTS AND SCIENCE COLLEGE

Recognized under 2(f) of UGC Act -1956

Affiliated to Thiruvalluvar University | ISO 9001 : 2015 Certified Institution

Perambai - 605110, Villupuram dt., Tamilnadu

(A unit of Farouk Educational Trust)

DEPARTMENT OF COMMERCE  
VALUE ADDED COURSE(2022-2023)  
SECURITIES MARKET  
ANSWER SHEET

18  
/ 20

NAME: PRAYIN . A  
ROLL NO: 214 22108032  
CLASS: 2 . B . Com

TIME :30 MINS

Answer All Questions(Tick Appropriate Options)

1	A	<input checked="" type="checkbox"/>	C	D
2	A	<input checked="" type="checkbox"/>	C	D
3	A	<input checked="" type="checkbox"/>	C	D
4	<input checked="" type="checkbox"/>	B	C	D
5	<input checked="" type="checkbox"/>	B	C	D
6	A	B	<input checked="" type="checkbox"/>	D
7	A	<input checked="" type="checkbox"/>	C	D
8	A	B	<input checked="" type="checkbox"/>	D
9	A	<input checked="" type="checkbox"/>	C	D
10	A	<input checked="" type="checkbox"/>	C	D
11	A	<input checked="" type="checkbox"/>	C	D
12	A	B	<input checked="" type="checkbox"/>	D
13	A	B	<input checked="" type="checkbox"/>	D
14	A	<input checked="" type="checkbox"/>	C	D
15	A	<input checked="" type="checkbox"/>	C	D
16	<input checked="" type="checkbox"/>	B	C	D
17	A	<input checked="" type="checkbox"/>	C	D
18	A	B	<input checked="" type="checkbox"/>	D
19	A	B	C	<input checked="" type="checkbox"/>
20	A	B	C	<input checked="" type="checkbox"/>



*Jana*  
PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.



## RAAK ARTS AND SCIENCE COLLEGE

Recognized under 2(f) of UGC Act -1956

Affiliated to Thiruvalluvar University | ISO 9001 : 2015 Certified Institution

Perambai - 605110, Villupuram dt., Tamilnadu

(A unit of Farouk Educational Trust)

DEPARTMENT OF COMMERCE  
VALUE ADDED COURSE(2022-2023)  
SECURITIES MARKET  
ANSWER SHEET

16  
20

NAME: GOPISHANKAR. S.

ROLL NO: 21422108012

CLASS: F. B.COM

TIME :30 MINS

Answer All Questions(Tick Appropriate Options)

1	A	<del>B</del>	C	D	✓
2	A	<del>B</del>	C	D	✓
3	A	<del>B</del>	<del>C</del>	D	✓
4	<del>A</del>	B	C	D	✓
5	<del>A</del>	B	C	D	✓
6	A	B	<del>C</del>	<del>D</del>	✓
7	A	<del>B</del>	C	D	✓
8	A	<del>B</del>	C	D	✓
9	<del>A</del>	<del>B</del>	C	D	✓
10	<del>A</del>	<del>B</del>	C	D	✓
11	A	B	C	<del>D</del>	✓
12	A	B	<del>C</del>	D	✓
13	A	B	<del>C</del>	D	✓
14	A	<del>B</del>	C	D	✓
15	A	<del>B</del>	C	D	✓
16	<del>A</del>	B	C	D	✓
17	A	<del>B</del>	C	D	✓
18	A	B	<del>C</del>	D	✓
19	A	B	C	<del>D</del>	✓
20	A	B	C	<del>D</del>	✓



*Jam.*  
PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001 2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## VALUE ADDED COURSE (2022 -2023)

### SECURITIES MARKETS

#### ANSWER KEY

Question NO	Answer Key	Question NO	Answer Key
1	B	11	D
2	B	12	C
3	B	13	C
4	A	14	B
5	A	15	B
6	C	16	A
7	B	17	B
8	B	18	C
9	B	19	D
10	B	20	D



*Jam.*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR, PIN 605110  
CHIDAMBARAM.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001 2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

- B) They facilitate trading by providing liquidity and buying and selling securities.
- C) They oversee compliance with securities regulations.
- D) They issue new securities to investors.

18. Which type of securities market allows for direct trading between buyers and sellers without the need for a centralized exchange?

- A) Primary market
- B) Secondary market
- C) OTC market
- D) Stock exchange

19. What is the term used for the process of bringing buyers and sellers together to execute securities trades?

- A) Clearing
- B) Settlement
- C) Matching
- D) Trading

20. Which of the following is NOT a factor that influences securities prices in the market?

- A) Supply and demand dynamics
- B) Economic indicators
- C) Regulatory changes
- D) Investor sentiment



*Jay*

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001 2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

13. What is the term for the price at which a security can be sold at a given time in the market?

- A) Face value
- B) Par value
- C) Market value
- D) Book value

14. Which term refers to the process of buying securities with borrowed money, with the securities serving as collateral?

- A) Short selling
- B) Margin trading
- C) Options trading
- D) Hedging

15. What is the primary purpose of a stock index in securities markets?

- A) To measure the performance of a specific group of stocks
- B) To regulate the prices of stocks
- C) To determine the dividend yield of stocks
- D) To facilitate bond trading

16. Which of the following statements is true regarding over-the-counter (OTC) markets?

- A) OTC markets are highly regulated by government authorities.
- B) OTC markets involve trading of securities through a centralized exchange.
- C) OTC markets typically involve smaller, less standardized securities.
- D) OTC markets are only accessible to institutional investors.

17. What role do market makers play in securities markets?

- A) They regulate the prices of securities.



*Jay.*

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.




# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001 2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

- C) Institutional Purchase Order
  - D) International Portfolio Offering
9. Which regulatory body oversees securities markets in the United States?
- A) Federal Reserve System (Fed)
  - B) Securities and Exchange Commission (SEC)
  - C) Commodities Futures Trading Commission (CFTC)
  - D) Financial Industry Regulatory Authority (FINRA)
10. What is the purpose of securities regulation?
- A) To limit the trading of securities to institutional investors only
  - B) To ensure fair and transparent trading practices and protect investors
  - C) To maximize profits for brokerage firms
  - D) To encourage speculative trading
11. Which of the following is NOT a common type of securities traded in securities markets?
- A) Stocks
  - B) Bonds
  - C) Commodities
  - D) Real estate
12. What is the primary risk associated with investing in securities markets?
- A) Inflation risk
  - B) Interest rate risk
  - C) Market risk
  - D) Liquidity risk



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

Time : 30 MINS  
Student Name:  
Class : I B.Com

Marks: 20  
Batch:  
Roll no:

## SECURITIES MARKETS

1. Which of the following best describes a securities market?
  - A) A market where only physical goods are traded
  - B) A market where financial instruments such as stocks and bonds are bought and sold
  - C) A market where real estate properties are exchanged
  - D) A market where agricultural products are traded
2. What is the primary function of securities markets?
  - A) Facilitating the exchange of goods and services
  - B) Providing a platform for investors to raise capital
  - C) Regulating government bonds
  - D) Facilitating international trade
3. What is the term used for the total value of all securities traded on a securities exchange during a specific period?
  - A) Market capitalization
  - B) Trading volume
  - C) Dividend yield
  - D) Price-earnings ratio
4. Which type of securities market facilitates the trading of new securities issued by companies to raise capital?
  - A) Primary market



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-695 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001 2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

- B) Secondary market
- C) Tertiary market
- D) OTC market

5. What is the main difference between a primary market and a secondary market?

A) Primary markets deal with new securities issuance, while secondary markets involve trading existing securities.

B) Secondary markets deal with new securities issuance, while primary markets involve trading existing securities.

C) Primary markets are regulated by the government, while secondary markets are not.

D) Secondary markets are exclusively for institutional investors, while primary markets are for retail investors.

6. Which of the following is an example of a secondary market?

A) Initial Public Offering (IPO)

B) Treasury bond auction

C) New York Stock Exchange (NYSE)

D) Venture capital funding round

7. What is the role of a stock exchange in securities markets?

A) Regulating financial institutions

B) Facilitating trading of stocks and other securities

C) Providing loans to investors

D) Issuing government bonds

8. What does IPO stand for in the context of securities markets?

A) International Public Offering

B) Initial Public Offering



*Jay*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
FERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## ANSWER SHEET

NAME:  
ROLL NO:  
CLASS:

TIME :1 HRS

Answer All Questions(Tick Appropriate Options)

1	A	B	C	D
2	A	B	C	D
3	A	B	C	D
4	A	B	C	D
5	A	B	C	D
6	A	B	C	D
7	A	B	C	D
8	A	B	C	D
9	A	B	C	D
10	A	B	C	D
11	A	B	C	D
12	A	B	C	D
13	A	B	C	D
14	A	B	C	D
15	A	B	C	D
16	A	B	C	D
17	A	B	C	D
18	A	B	C	D
19	A	B	C	D
20	A	B	C	D



*Jam.*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.



RAAK ARTS AND SCIENCE COLLEGE

Recognized under 2(f) of UGC Act -1956

Affiliated to Thiruvalluvar University | ISO 9001 : 2015 Certified Institution

Perambai - 605110, Villupuram dt., Tamilnadu

( A unit of Farouk Educational Trust)

DEPARTMENT OF COMMERCE(CA)

VALUE ADDED COURSE(2022-2023)

ECOLOGY AND WASTE MANAGEMENT

ANSWER SHEET

NAME:  
ROLL NO:  
CLASS:

Pradeepraj. N  
43220011013  
III-year

TIME :1 HRS

Answer All Questions(Tick Appropriate Options)

1	(A)	B	C	D
2	A	B	(C)	D
3	A	(B)	C	D
4	A	B	(C)	D
5	A	(B)	C	D
6	A	B	(C)	D
7	A	B	(C)	D
8	A	B	(C)	D
9	A	(B)	C	D
10	A	B	C	(D)
11	(A)	B	C	D
12	A	B	(C)	D
13	A	(B)	C	D
14	A	(B)	C	D
15	A	(B)	C	D
16	A	(B)	C	D
17	A	B	(C)	D
18	A	(B)	C	D
19	A	(B)	C	D
20	A	(B)	C	D

16  
20



*Jan*  
PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.



## RAAK ARTS AND SCIENCE COLLEGE

Recognized under 2(f) of UGC Act -1956

Affiliated to Thiruvalluvar University | ISO 9001 : 2015 Certified Institution

Perambai – 605110, Villupuram dt., Tamilnadu

( A unit of Farouk Educational Trust)

DEPARTMENT OF COMMERCE(CA)

VALUE ADDED COURSE(2022-2023)

ECOLOGY AND WASTE MANAGEMENT

ANSWER SHEET

NAME:

Mohamed Rafi . A

ROLL NO:

43220011008

CLASS:

III-year

TIME :1 HRS

Answer All Questions(Tick Appropriate Options)

1	A	B	<input checked="" type="radio"/> C	D
2	A	<input checked="" type="radio"/> B	C	D
3	A	B	C	<input checked="" type="radio"/> D
4	A	B	<input checked="" type="radio"/> C	D
5	<input checked="" type="radio"/> A	B	C	D
6	A	B	<input checked="" type="radio"/> C	D
7	A	<input checked="" type="radio"/> B	C	D
8	A	B	<input checked="" type="radio"/> C	D
9	A	<input checked="" type="radio"/> B	C	D
10	A	B	C	<input checked="" type="radio"/> D
11	<input checked="" type="radio"/> A	B	C	D
12	A	B	<input checked="" type="radio"/> C	D
13	A	<input checked="" type="radio"/> B	C	D
14	<input checked="" type="radio"/> A	B	C	D
15	A	<input checked="" type="radio"/> B	C	D
16	<input checked="" type="radio"/> A	B	C	D
17	A	B	<input checked="" type="radio"/> C	D
18	A	<input checked="" type="radio"/> B	C	D
19	A	<input checked="" type="radio"/> B	C	D
20	A	<input checked="" type="radio"/> B	C	D

17  
20



Jan.  
PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## DEPARTMENT OF COMMERCE (CA)

S.NO	REG.NO	STUDENT NAME	MARK(20)	REMARK
1	4321U1911008	BHUVANESHWARI.V	15	PASS
2	4321U1911012	DHATCHAYINI.V	15	PASS
3	43220U11001	AFZALBASHA N	17	PASS
4	43220U11002	BALAKUMARAN P	17	PASS
5	43220U11003	DHEENA R	14	PASS
6	43220U11004	GANKEYAN M	AAA	FAIL
7	43220U11005	HARIHARAN E	16	PASS
8	43220U11006	HARIKRISHANAN V	15	PASS
9	43220U11007	JAYARAM U	16	PASS
10	43220U11008	MOHAMED RAFI A	17	PASS
11	43220U11009	MOHAMMED THAMIN T	17	PASS
12	43220U11010	MUSTHALIBA J	12	PASS
13	43220U11011	NOORULIMAM S	13	PASS
14	43220U11012	PRAVIN R	15	PASS
15	43220U11013	PRADEEPRAJ N	16	PASS
16	43220U11014	PREMKUMAR M	14	PASS
17	43220U11015	RAGHAV RAJ K	13	PASS
18	43220U11016	RAGUMAN M	16	PASS
19	43220U11017	SAIPRASANNA R	12	PASS



*Jaw*  
PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAI.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

20	43220U11018	SATHIK BASHA S	11	PASS
21	43220U11019	SIRAJUDEEN J	15	PASS
22	43220U11020	SRIBARATH P	13	PASS
23	43220U11021	SURIYA B	14	PASS
24	43220U11022	VADIVAZHAGAN A	16	PASS



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

## DEPARTMENT OF COMMERCE (CA)

S.NO	REG.NO	STUDENT NAME	MARK(100)	REMARK
1	4321U1911008	BHUVANESHWARI.V	75	PASS
2	4321U1911012	DHATCHAYINI.V	75	PASS
3	43220U11001	AFZALBASHA N	85	PASS
4	43220U11002	BALAKUMARAN P	85	PASS
5	43220U11003	DHEENA R	70	PASS
6	43220U11004	GANKEYAN M	AAA	FAIL
7	43220U11005	HARIHARAN E	80	PASS
8	43220U11006	HARIKRISHANAN V	75	PASS
9	43220U11007	JAYARAM U	80	PASS
10	43220U11008	MOHAMED.RAFI A	85	PASS
11	43220U11009	MOHAMMED THAMIN T	85	PASS
12	43220U11010	MUSTHALIBA J	60	PASS
13	43220U11011	NOORULIMAM S	65	PASS
14	43220U11012	PRAVIN R	75	PASS
15	43220U11013	PRADEEPRAJ N	80	PASS
16	43220U11014	PREMKUMAR M	70	PASS
17	43220U11015	RAGHAV RAJ K	65	PASS
18	43220U11016	RAGUMAN M	80	PASS
19	43220U11017	SAIPRASANNA R	60	PASS
20	43220U11018	SATHIK BASHA S	55	PASS



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.

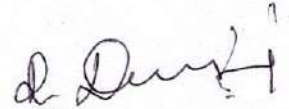


# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

21	43220U11019	SIRAJUDEEN J	75	PASS
22	43220U11020	SRIBARATH P	65	PASS
23	43220U11021	SURIYA B	70	PASS
24	43220U11022	VADIVAZHAGAN A	80	PASS

  
COURSE COORDINATOR

  
HOD



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

## QUESTION PAPER

Time : 1 hrs  
Student Name:  
Class : II B.COM(CA)

Marks: 20  
Batch:  
Roll no:

1. What does GIS stand for?
  - a) Global Information System
  - b) Geospatial Information System
  - c) Geographic Information System
  - d) Geological Information System
2. Which of the following is NOT a component of GIS?
  - a) Hardware
  - b) Software
  - c) People
  - d) Electricity
3. What is a raster data model in GIS?
  - a) Vector-based data representation
  - b) Grid-based data representation
  - c) Line-based data representation
  - d) Point-based data representation
4. Which type of data model represents spatial data using points, lines, and polygons?
  - a) Raster
  - b) Vector
  - c) Graph
  - d) Grid



*Jam.*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR PERAMBAL  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

5. Which GIS operation involves combining spatial data from different sources
  - a) Buffering
  - b) Overlay
  - c) Clipping
  - d) Merging
6. What is geocoding in GIS?
  - a) Converting geographic coordinates into digital data
  - b) Converting digital data into geographic coordinates
  - c) Displaying geographical data on a map
  - d) Calculating distance between two points on Earth
7. Which spatial analysis technique identifies areas with similar characteristics based on proximity
  - a) Buffering
  - b) Clustering
  - c) Interpolation
  - d) Dissolving
8. What does GPS stand for?
  - a) Geographic Positioning System
  - b) Global Pointing System
  - c) Geospatial Positioning System
  - d) Global Positioning System
9. Which of the following is NOT a common application of GIS?
  - a) Urban planning
  - b) Wildlife conservation
  - c) Weather forecasting
  - d) Mobile gaming
10. Which GIS software is widely used for open-source mapping?
  - a) ArcGIS
  - b) QGIS
  - c) MapInfo
  - d) ERDAS Imagine



*Jam.*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

11. Which file format is commonly used for storing GIS data?
  - a) .jpg
  - b) .png
  - c) .shp
  - d) .docx
12. Which of the following is NOT a spatial data analysis technique?
  - a) Buffering
  - b) Filtering
  - c) Interpolation
  - d) Topological analysis
13. Which GIS operation involves eliminating redundant geometries from spatial data?
  - a) Clipping
  - b) Dissolving
  - c) Merging
  - d) Splitting
14. What is a buffer in GIS?
  - a) A tool for creating random spatial data
  - b) An area around a feature within a specified distance
  - c) A tool for converting raster data to vector data
  - d) An algorithm for finding the shortest path between two points
15. What does DEM stand for in GIS?
  - a) Digital Elevation Model
  - b) Data Evaluation Model
  - c) Dynamic Earth Mapping
  - d) Detailed Elevation Measurement
16. Which spatial analysis technique predicts values at unsampled locations based on known values?
  - a) Clustering
  - b) Interpolation
  - c) Overlay
  - d) Dissolving



*Jm.*

**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE,  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.

17. What is the purpose of a GIS database?
- a) To store only spatial data
  - b) To store both spatial and non-spatial data
  - c) To store only tabular data
  - d) To store only raster data
18. Which GIS operation involves separating one layer of spatial data into multiple layers based on a specified criterion?
- a) Buffering
  - b) Dissolving
  - c) Splitting
  - d) Clipping
19. Which GIS software is developed by Esri?
- a) QGIS
  - b) MapInfo
  - c) ArcGIS
  - d) GRASS GIS
20. What is topology in GIS?
- a) The study of maps
  - b) The mathematical study of shapes and spaces
  - c) The study of spatial relationships
  - d) The study of geographical features



**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

## GEOGRAPHICAL INFORMATION SYSTEM

### ANSWER KEY

Q.NO	ANS	Q.NO	ANS
1	C	11	C
2	D	12	B
3	B	13	B
4	B	14	B
5	B	15	A
6	B	16	B
7	B	17	B
8	D	18	C
9	D	19	C
10	B	20	C



*Jaw.*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAL.





# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956

## VALUE ADDED COURSE(2022-2023) GEOGRAPHICAL INFORMATION SYSTEM ANSWER SHEET

NAME:  
ROLL NO:  
CLASS:

TIME :1 HRS

Answer All Questions(Tick Appropriate Options)

1	A	B	C	D
2	A	B	C	D
3	A	B	C	D
4	A	B	C	D
5	A	B	C	D
6	A	B	C	D
7	A	B	C	D
8	A	B	C	D
9	A	B	C	D
10	A	B	C	D
11	A	B	C	D
12	A	B	C	D
13	A	B	C	D
14	A	B	C	D
15	A	B	C	D
16	A	B	C	D
17	A	B	C	D
18	A	B	C	D
19	A	B	C	D
20	A	B	C	D



  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-505 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001 2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.



## RAAK ARTS AND SCIENCE COLLEGE

Recognized under 2(f) of UGC Act -1956

Affiliated to Thiruvalluvar University | ISO 9001 : 2015 Certified Institution

Perambai – 605110, Villupuram dt., Tamilnadu

( A unit of Farouk Educational Trust)

DEPARTMENT OF COMMERCE(CA)

VALUE ADDED COURSE(2022-2023)

GEOGRAPHICAL INFORMATION SYSTEM

ANSWER SHEET

NAME:  
ROLL NO:  
CLASS:

Madhemanjari. B  
21421111015  
II-year

TIME :1 HRS

Answer All Questions(Tick Appropriate Options)

1	A	B	C	<input checked="" type="radio"/> D
2	A	B	C	<input checked="" type="radio"/> D
3	A	B	C	<input checked="" type="radio"/> D
4	A	<input checked="" type="radio"/> B	C	D
5	A	<input checked="" type="radio"/> B	C	D
6	A	<input checked="" type="radio"/> B	C	D
7	A	<input checked="" type="radio"/> B	C	D
8	A	B	C	<input checked="" type="radio"/> D
9	A	B	C	<input checked="" type="radio"/> D
10	A	<input checked="" type="radio"/> B	C	D
11	A	B	<input checked="" type="radio"/> C	D
12	A	<input checked="" type="radio"/> B	C	D
13	A	<input checked="" type="radio"/> B	C	D
14	A	<input checked="" type="radio"/> B	C	D
15	<input checked="" type="radio"/> A	B	C	D
16	A	<input checked="" type="radio"/> B	C	D
17	A	<input checked="" type="radio"/> B	C	D
18	A	B	<input checked="" type="radio"/> C	D
19	A	B	<input checked="" type="radio"/> C	D
20	A	B	<input checked="" type="radio"/> C	D

18  
20



*Jas.*  
**PRINCIPAL**  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST 605 110  
PERAMBAL.



# RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Annamalai University, Chidambaram || An ISO 9001:2015 Certified Institution  
Recognized under section 2(f) of the UGC Act, 1956.



## RAAK ARTS AND SCIENCE COLLEGE

Recognized under 2(f) of UGC Act -1956

Affiliated to Thiruvalluvar University | ISO 9001 : 2015 Certified Institution

Perambai - 605110, Villupuram dt., Tamilnadu

( A unit of Farouk Educational Trust)

DEPARTMENT OF COMMERCE(CA)

VALUE ADDED COURSE(2022-2023)

GEOGRAPHICAL INFORMATION SYSTEM

ANSWER SHEET

NAME:  
ROLL NO:  
CLASS:

Growthamaya. S.  
21429111012  
II-year

TIME:1 HRS

Answer All Questions(Tick Appropriate Options)

1	A	B	<input checked="" type="radio"/>	D
2	A	B	C	<input checked="" type="radio"/>
3	A	B	C	<input checked="" type="radio"/>
4	A	<input checked="" type="radio"/>	C	D
5	A	<input checked="" type="radio"/>	C	D
6	A	<input checked="" type="radio"/>	C	D
7	A	<input checked="" type="radio"/>	C	D
8	A	B	C	<input checked="" type="radio"/>
9	A	B	C	<input checked="" type="radio"/>
10	A	<input checked="" type="radio"/>	C	D
11	A	B	<input checked="" type="radio"/>	D
12	A	<input checked="" type="radio"/>	C	D
13	A	<input checked="" type="radio"/>	C	D
14	A	<input checked="" type="radio"/>	C	D
15	<input checked="" type="radio"/>	B	C	D
16	A	<input checked="" type="radio"/>	C	D
17	A	<input checked="" type="radio"/>	C	D
18	A	B	<input checked="" type="radio"/>	D
19	A	B	<input checked="" type="radio"/>	D
20	<input checked="" type="radio"/>	B	C	D

19  
20



Jay  
PRINCIPAL  
RAAK ARTS & SCIENCE COLLEGE  
VILLIANUR POST-605 110  
PERAMBAI.