



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
Recognized under section 2(f) of the UGC Act, 1956.

List of Value Added courses conducted in the institution during the academic year 2019-20

S.No	Name of the Programme
1.	Life Skills
2.	Presentation Skill
3.	Group Discussion
4.	Leadership and Negotiation Skills
5.	Digital Marketing
6.	Social Innovation and Entrepreneurship
7.	Personality Enhancement
8.	Company Secretary
9.	Investment Banking
10.	Environmental Management and Law
11.	Customer Relationship Management
12.	Visualizing and Copy Righting For Advertising
13.	General Awareness
14.	E- Commerce
15.	Tally with GST
16.	UML using OOAD
17.	Graphics and Animation
18.	Python Programming
19.	Artificial Intelligence
20.	Robotics
21.	Machine Learning
22.	Vedic Mathematics
23.	Environmental Science and Management
24.	Analytical in Chemistry
25.	Sustainable Development
26.	Intelligence for Excellence
27.	MATLAB
28.	Full Stack Developer



Jan.

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



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
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 a Value Added Course on "Group discussion" for II BA English 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 programs.

Thanking you

Course Name: "Group discussion"

Name of the Co-ordinator: Mrs. S.Sowmiya

Place: Perambai

Date : 27.08.2019

Yours Faithfully



Jar.
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RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
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30.08.2019

CIRCULAR

It is hereby informed that our English department is going to conduct the value added course on " Group Discussion" for II BA English students. Hence the students of Literature have to enroll their name to the course coordinator on or before 02.09.2019.

II BA ENGLISH - Group Discussion

Principal

Copy to

1. Principal
2. Office
3. English Department



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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

Definition and importance of GD- Types of GDs (formal, informal, brainstorming, problem-solving) -Objectives and benefits of GD - Preparation for GD- Identifying and addressing conflicts- Using & statements to express opinions Understanding group behavior and dynamics- Roles and responsibilities in a group – Effective communication and conflict resolution- Building trust and rapport among group members- Practicing GD skills through case studies or scenarios -Discussing real-life scenarios and developing solutions

Day 11 to 20

Research and gathering information on the topic Creating a list of questions and points to discuss -Organizing thoughts and ideas- Practicing active listening and asking questions-Introduction to the topic and setting the agenda- Encouraging participation and active listening -Managing time and keeping the discussion focused - Dealing with distractions and conflicts

Day 21 to 30

Verbal communication skills (voice, tone, language) - Nonverbal communication skills (body language, facial expressions) - Active listening skills (maintaining eye contact, nodding- Paraphrasing and summarizing to ensure understanding
ASSESSMENT TEST



RAAK ARTS AND SCIENCE COLLEGE

DEPARTMENT OF
ENGLISH

VALUE ADDED COURSE

Group Discussion

FROM 03/09/2019

TO 29/09/2019

ALL ARE WELCOME

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SYLLABUS

Course Title: GROUP DISCUSSION

Course Description: Group discussions foster collaborative learning by encouraging participants to share diverse perspectives and critically analyze different viewpoints. These discussions enhance communication skills, promote active listening, and build consensus. Engaging in group discussions also helps develop critical thinking and problem-solving abilities, preparing participants for effective teamwork in professional settings.

Unit 1: Introduction to Group Discussion (6 HOURS)

Definition and importance of GD- Types of GDs (formal, informal, brainstorming, problem-solving) -Objectives and benefits of GD - Preparation for GD- Identifying and addressing conflicts- Using & statements to express opinions

Unit 2: Understanding Group Dynamics (6 HOURS)

Understanding group behavior and dynamics- Roles and responsibilities in a group – Effective communication and conflict resolution- Building trust and rapport among group members- Practicing GD skills through case studies or scenarios -Discussing real-life scenarios and developing solutions

Unit 3: Preparation for GD (6 HOURS)

Research and gathering information on the topic Creating a list of questions and points to discuss -Organizing thoughts and ideas- Practicing active listening and asking questions

Unit 4: Facilitating a Group Discussion (6 HOURS)

Introduction to the topic and setting the agenda- Encouraging participation and active listening -Managing time and keeping the discussion focused - Dealing with distractions and conflicts

Unit 5: Effective Communication in GD (6 HOURS)

Verbal communication skills (voice, tone, language) - Nonverbal communication skills (body language, facial expressions) - Active listening skills (maintaining eye contact, nodding- Paraphrasing and summarizing to ensure understanding

REFERENCES

The Art of Facilitating by Roger Schwarz - A comprehensive guide to facilitating group discussions and meetings.




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DEPARTMENT OF ENGLISH

VALUE ADDED COURSE (2019 -2020)

GROUP DISCUSSION SUMMARY REPORT

The "Group Discussion" course is designed to enhance participants' communication, critical thinking, and collaborative problem-solving skills. Through structured group activities and guided discussions, students will learn to articulate their ideas clearly, listen actively, and engage constructively with diverse viewpoints. The course emphasizes the development of consensus-building techniques and effective conflict resolution strategies. By the end of the course, participants will be adept at facilitating and contributing to productive group discussions, essential for success in academic, professional, and social contexts.

COORDINATOR

HOD



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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 "INVESTMENT BANKING" 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: INVESTMENT BANKING

Name of the Co-ordinator:

R. DEVAKI (II B.COM)

Place: Perambai

Date: 10.07.2019

Yours Faithfully

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12.07.2019

CIRCULAR

It is hereby informed that our Commerce Department is going to conduct the value added course on "INVESTMENT BANKING " for II BCOM students. Hence the students of our Commerce Department have to enroll their name to the course coordinator on or before 15.07.2019.

II BCOM - INVESTMENT BANKING

Principal

Copy to

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



Jam.
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RAAK ARTS AND SCIENCE COLLEGE

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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 he 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 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

Recognized under section 2(f) of the UGC Act, 1956

Course:
INVESTMENT BANKING

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

Start: 18/07/2019 TO
26/08/2019

Organized by



Department of Commerce
RAAK Arts & Science
College
Perambai, Villianur

ALL ARE WELCOME

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SYLLABUS

INVESTMENT BANKING

Unit 1: Introduction to Investment Banking (6hr)

Overview of investment banking industry - Role and functions of investment banks - Historical development of investment banking - Types of investment banking services (M&A advisory, capital raising, restructuring, etc.) -Regulatory environment and compliance requirements.

Unit 2: Financial Markets and Instruments (6hr)

Introduction to financial markets (equity markets, debt markets, derivatives markets) -Overview of financial instruments (stocks, bonds, options, futures, etc.) - Understanding market participants (issuers, investors, intermediaries) - Market structures and trading mechanisms - Impact of macroeconomic factors on financial markets

Unit 3: Valuation Techniques (6hr)

Introduction to valuation principles - Valuation methods: discounted cash flow (DCF), comparable company analysis (CCA), precedent transactions analysis (PTA) - Understanding financial statements and financial ratios - Sensitivity analysis and scenario planning - Valuation considerations for different industries

Unit 4: Corporate Finance (6hr)

Capital structure and financing decisions - Debt financing vs. equity financing Initial public offerings (IPOs) and secondary offerings - Leveraged buyouts (LBOs) and mergers & acquisitions (M&A) - Corporate restructuring and divestitures.

Unit 5: Financial Analysis and Modeling (6hr)

Financial statement analysis Ratio analysis and benchmarking - Forecasting techniques - Building financial models in Excel Leveraging financial models for decision making.



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DEPARTMENT OF COMMERCE VALUE ADDED COURSE (2019 -2020)

INVESTMENT BANKING SUMMARY REPORT

The investment banking course provided an intensive and comprehensive overview of the financial industry's key principles and practices. Covering a wide array of topics, the course delved into essential areas such as financial markets, valuation techniques, mergers and acquisitions, and corporate finance strategies. Participants gained practical insights through case studies and real-world examples, equipping them with the necessary skills to analyze financial statements, structure deals, and understand the regulatory environment. The course not only focused on theoretical knowledge but also emphasized the practical application through hands-on exercises and simulations.

COURSE COORDINATOR

HOD




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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 a Value Added Course on “**Leadership and Negotiation Skills**” for I BA English 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 programs.

Thanking you

Course Name: “Leadership and Negotiation Skills”

Name of the Co-ordinator: Mr.Rishiiniyan

Place: Perambai

Date : 24.07.2019



Yours Faithfully

PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
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25.07.2019

CIRCULAR

It is hereby informed that our English department is going to conduct the value added course on "Leadership and Negotiation Skills" for I BA English students. Hence the students of Literature have to enroll their name to the course coordinator on or before 01.08.2019.

I BA ENGLISH - Leadership and Negotiation Skills

Principal

Copy to

1. Principal
2. Office
3. English Department



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RAAK ARTS & SCIENCE COLLEGE
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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.

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AGENDA

Day 1 to 10

Definition of leadership-Key leadership theories and styles-Self-assessment of leadership strengths and weaknesses-Group discussion: What makes a good leader? Visioning and goal-setting-Communication and influence-Emotional intelligence and empathy-Group discussion: How can leaders build trust with their team?

Day 11 to 20

Verbal and non-verbal communication techniques-Active listening and feedback skills-Conflict resolution strategies-Role-playing exercise: Negotiating a salary increase
Defining negotiation goals and objectives-Understanding the other party perspective-Developing persuasive arguments-Role-playing exercise: Negotiating a business deal

Day 21 to 30

Understanding the power dynamics of negotiation-Using data and evidence to support arguments-Managing emotions and building trust during negotiation-Case study: Analyzing a real-world negotiation scenario

ASSESSMENT TEST



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(Affiliated to Thiruvalluvar University | ISO 9001: 2015 Certified Institution)

Perambai - 605110, Villupuram dt, Tamilnadu

(A Unit of Farouk Educational Trust)

DEPARTMENT OF ENGLISH

VALUE ADDED

COURSE

Leadership and Negotiation Skills

FROM 02/08/2019

TO 04/10/2019

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SYLLABUS

Course Title: LEADERSHIP AND NEGOTIATION SKILLS

Course Description: Course Description:

This course aims to develop students' skills in leadership and negotiation, enabling them to effectively communicate, manage, and resolve conflicts in a variety of settings. Through lectures, case studies, and role-playing exercises, students will learn how to build strong relationships, analyze complex situations, and negotiate successfully.

Unit 1: Introduction to Leadership (6 HOURS)

Definition of leadership-Key leadership theories and styles-Self-assessment of leadership strengths and weaknesses-Group discussion: What makes a good leader?

Unit 2: Leadership Principles (6 HOURS)

Visioning and goal-setting-Communication and influence-Emotional intelligence and empathy-Group discussion: How can leaders build trust with their team?

Unit 3: Effective Communication (6 HOURS)

Verbal and non-verbal communication techniques-Active listening and feedback skills-Conflict resolution strategies-Role-playing exercise: Negotiating a salary increase

Unit 4: Negotiation Fundamentals (6 HOURS)

Defining negotiation goals and objectives-Understanding the other party perspective-Developing persuasive arguments-Role-playing exercise: Negotiating a business deal

Unit 5: Advanced Negotiation Techniques (6 HOURS)



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Understanding the power dynamics of negotiation-Using data and evidence to support arguments-Managing emotions and building trust during negotiation-Case study: Analyzing a real-world negotiation scenario

REFERENCES

The Leadership Challenge by James M. Kouzes and Barry Z. Posner
Getting to Yes by Roger Fisher, William Ury, and Bruce Patton



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DEPARTMENT OF ENGLISH

VALUE ADDED COURSE (2019 -2020)

LEADERSHIP AND NEGOTIATION SKILLS SUMMARY REPORT

The "Leadership and Negotiation Skills" course equips participants with the essential tools and techniques to excel in leadership roles and navigate complex negotiations effectively. Through interactive modules and real-world case studies, students will develop a profound understanding of key leadership principles, including strategic decision-making, emotional intelligence, and team motivation. Additionally, the course delves into advanced negotiation strategies, teaching participants how to manage conflicts, leverage influence, and achieve mutually beneficial outcomes. By the end of the course, students will emerge as confident leaders and skilled negotiators, capable of driving organizational success and fostering collaborative relationships.

COORDINATOR

HOD




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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 "FULL STACK DEVELOPER" 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: "full stack developer"

Name of the Co-ordinator:

Mrs. R.SAKTHIDEVI

Place: Perambai

Date: 28.08.2019



Yours Faithfully

PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLANUR POST-605 110
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29.08.2019

CIRCULAR

It is hereby informed that our Computer science department is going to conduct the value added course on "**full stack developer**" 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 31.08.2019.

I&II M.SC(Computer science)- "**full stack developer** "

A. M. Howard No 2.

Principal

Copy to

1. Principal
2. Office
3. CS&BCA

Jr

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RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 110
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RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
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About the College

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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 every single day.

AGENDA

Day 1 to 10

Introduction to Full Stack Development

In today's digital age, the demand for comprehensive web applications has soared, requiring developers to possess a broad set of skills spanning both front-end and back-end technologies. Full Stack Development has emerged as a critical discipline in the tech industry, combining the art of creating visually appealing and interactive user interfaces with the science of building robust and scalable server-side applications.

Day 11 to 20

Backend

Introduction to backend programming languages -Basics of server-side scripting - Handling HTTP requests and responses-- Routing, middleware, and MVC architecture - Relational databases - Database modeling and design - ORM/ODM

Day 21 to 30

Continuous Integration/Continuous Deployment (CI/CD):-CI/CD pipelines - Automated testing - Deployment strategies Cloud Services:- Cloud - Infrastructure as Code (IaC) concepts - Serverless architecture



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VALUE ADDED COURSE

FULL STACK DEVELOPER

FROM 4/09/2019
TO 31/10/2019

ALL ARE WELCOME



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SYLLABUS

Course Title: full stack developer

Course Description: This syllabus can be adjusted based on the specific requirements of the course, the level of expertise targeted (beginner, intermediate, advanced), and the technologies preferred by the instructor or institution. Additionally, hands-on projects, assignments, and real-world applications should complement the theoretical knowledge gained from these topics.:

Course Duration: [Insert duration here]

UNIT 1: Frontend Development (6 hours)

HTML/CSS:-Basics of HTML5 - CSS3 styling and layout techniques - Responsive web design principles - CSS preprocessors - JavaScript:-Core concepts of JavaScript - DOM manipulation - Asynchronous JavaScript - ES6+ features - Frontend frameworks/libraries.

UNIT 2:Backend Development (6 hours)

Introduction to backend programming languages -Basics of server-side scripting - Handling HTTP requests and responses-- Routing, middleware, and MVC architecture - Relational databases - Database modeling and design -ORM/ODM libraries.

UNIT 3:DevOps and Deployment(6 hours)

Continuous Integration/Continuous Deployment (CI/CD):-CI/CD pipelines - Automated testing - Deployment strategies Cloud Services:- Cloud - Infrastructure as Code (IaC) concepts - Serverless architecture

UNIT 4:Performance Optimization(6 hours)

Website performance metrics - Caching strategies - Frontend and backend optimization techniques - Agile Methodologies: -Scrum, Kanban, or other agile methodologies - Agile project management tools

UNIT 5:Soft Skills(6 hours)



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Communication skills - Problem-solving abilities -Collaboration and teamwork Industry Trends and Emerging Technologies:-Keeping up-to-date with the latest developments in web development - Experimenting with new tools and technologies.

REERENCES

Platforms like Udemy, Coursera, and Pluralsight offer comprehensive courses on full stack development covering various technologies and frameworks.

The Odin Project and freeCodeCamp are excellent resources for learning full stack development for free.

BOOK

- "Full Stack Development with JHipster" by Deepu K Sasidharan and Sendil Kumar N is a practical guide to building modern web applications with the JHipster framework.



Jm.
PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
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DEPARTMENT OF COMPUTER SCIENCE

VALUE ADDED COURSE(2019 -2020)

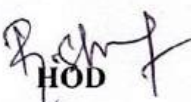
FULL STACK DEVELOPER

SUMMARY REPORT

The Full Stack Developer Course is a comprehensive training program designed to equip participants with the necessary skills to develop both client-side (front-end) and server-side (back-end) applications. The course covers a wide range of technologies and tools used in modern web development, providing a balanced mix of theoretical knowledge and practical experience.




CO-ORDINATOR


HOD




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RAAK ARTS AND SCIENCE COLLEGE

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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 “UML USING OOAD” for 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: “UML USING OOAD”

Name of the Co-ordinator:

Mrs. R.SAKTHIDEVI

Place: Perambai

Date: 29.09.2019



Yours Faithfully

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



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
Recognized under section 2(f) of the UGC Act, 1956.

29.09.2019

CIRCULAR

It is hereby informed that our Computer Application department is going to conduct the value added course on "UML USING OOAD" for III BCA students. Hence the students of Computer science have to enroll their name to the course coordinator on or before 31.09.2019.

III BCA-"UML USING OOAD"

A. M. Ahmad Nazim

Principal

Copy to

1. Principal
2. Office
3. BCA



Jaw
**PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-805 110
PERAMBAL.**



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
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 every single day.

AGENDA

Day 1 to 10

Classes and objects - Encapsulation, inheritance, and polymorphism - Abstraction and modularity-Use Case Modeling: Understanding system requirements from the perspective of users. Modeling class structure and relationships - Attributes, operations, and visibility - Associations, aggregations, and compositions - Inheritance and interfaces

Day 11 to 20

Sequence diagrams to model interactions between objects over time - Collaboration diagrams (or Communication diagrams) to show interactions between objects - State diagrams to represent the lifecycle of an object. Organizing the model elements into logical groups - Showing dependencies between packages- Component Diagrams: Representing the physical components of a system and their relationships - Showing how software components are connected and interact

Day 21 to 30

Modeling the physical deployment of software components on hardware nodes - Showing how software and hardware elements are connected in a distributed system-sign Patterns



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DEPARTMENT OF COMPUTER
APPLICATION

VALUE ADDED COURSE

UML USING OOAD

FROM 3/10/2019

TO 31/11/2019

ALL ARE WELCOME



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

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SYLLABUS UML USING OOAD

UNIT 1: Introduction to Object-Oriented Concepts

Classes and objects - Encapsulation, inheritance, and polymorphism - Abstraction and modularity-Use Case Modeling: Understanding system requirements from the perspective of users

UNIT 2: Class Diagrams

Modeling class structure and relationships- Attributes, operations, and visibility - Associations, aggregations, and compositions - Inheritance and interfaces

UNIT 3: Behavioral Modeling

Sequence diagrams to model interactions between objects over time - Collaboration diagrams (or Communication diagrams) to show interactions between objects - State diagrams to represent the lifecycle of an object

UNIT 4: Package Diagrams

Organizing the model elements into logical groups - Showing dependencies between packages-Component Diagrams: Representing the physical components of a system and their relationships- Showing how software components are connected and interact

UNIT 5: Deployment Diagrams

Modeling the physical deployment of software components on hardware nodes - Showing how software and hardware elements are connected in a distributed system-sign Patterns



Jaw.
PRINCIPAL
RAAK ARTS & SCIENCE CO
VILLIANUR POST-605 1
PERAMBAL.



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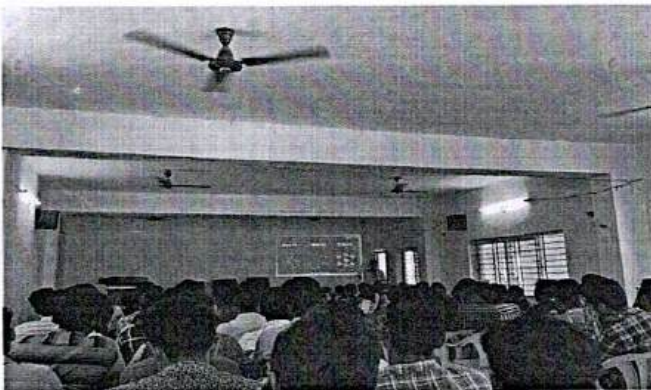
DEPARTMENT OF COMPUTER APPLICATION

VALUE ADDED COURSE(2019 -2020)

UML USING OOAD

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



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PERAMBAL.



RAAK ARTS AND SCIENCE COLLEGE

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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 “**GRAPHICS AND ANIMATION**” for II 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: “**GRAPHICS AND ANIMATION**”

Name of the Co-ordinator:

Mrs. R.SAKTHIDEVI

Place: Perambai

Date: 28.08.2019

Yours Faithfully

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





RAAK ARTS AND SCIENCE COLLEGE

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26.07.2019

CIRCULAR

It is hereby informed that our Computer Application department is going to conduct the value added course on "GRAPHICS AND ANIMATION" for II BCA students. Hence the students of Computer science have to enroll their name to the course coordinator on or before 31.07.2019.

I BCA-"GRAPHICS AND ANIMATION"

A. M. Harish Na. R.

Principal

Copy to

1. Principal
2. Office
3. BCA



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



RAAK ARTS AND SCIENCE COLLEGE

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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 every single day.

AGENDA

Day 1 to 10

Overview of graphic design principles - Elements of design: line, shape, color, texture - Introduction to Adobe Photoshop or similar software - Hands-on exercises: creating basic digital artwork. Introduction to vector graphics - Understanding bezier curves and shapes - Introduction to Adobe Illustrator or similar software - Creating logos and illustrations - Project: Designing a simple logo

Day 11 to 20

Principles of typography - Font selection and pairing - Layout and composition - Hands-on exercises: designing posters and banners - Introduction to Animation - Basics of animation principles - Frame-by-frame animation vs. keyframe animation - Introduction to Adobe Animate or similar software - Animation exercises: bouncing ball, character walk cycle

Day 21 to 30

Introduction to After Effects or similar software - Creating visual effects such as explosions, smoke, and fire - Motion graphics techniques - Project: Designing a motion graphic title sequence



RAAK ARTS AND SCIENCE COLLEGE

DEPARTMENT OF COMPUTER APPLICATION

VALUE ADDED COURSE

GRAPHICS AND ANIMATION

FROM

1.8.2019 TO 25.9.2019

ALL ARE WELCOME



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SYLLABUS

Course Title: Graphics and Animation

UNIT1: Introduction to Graphic Design

Overview of graphic design principles - Elements of design: line, shape, color, texture - Introduction to Adobe Photoshop or similar software - Hands-on exercises: creating basic digital artwork

UNIT2: Digital Illustration

Introduction to vector graphics - Understanding bezier curves and shapes - Introduction to Adobe Illustrator or similar software - Creating logos and illustrations - Project: Designing a simple logo

UNIT3: Typography

Principles of typography - Font selection and pairing - Layout and composition- Hands-on exercises: designing posters and banners - Introduction to Animation- Basics of animation principles - Frame-by-frame animation vs. keyframe animation- Introduction to Adobe Animate or similar software - Animation exercises: bouncing ball, character walk cycle

UNIT4: 2D Animation Techniques

Advanced animation techniques: squash and stretch, anticipation, follow-through - Lip-syncing and character animation - Storyboarding and animatics - Project: Short animated sequence

UNIT5: Visual Effects and Motion Graphics

Introduction to After Effects or similar software - Creating visual effects such as explosions, smoke, and fire - Motion graphics techniques - Project: Designing a motion graphic title sequence

Additional Resources:

- Online tutorials (YouTube, Adobe Creative Cloud tutorials, etc.)
- Guest lectures from industry professionals
- Field trips to animation studios or design agencies (if feasible)



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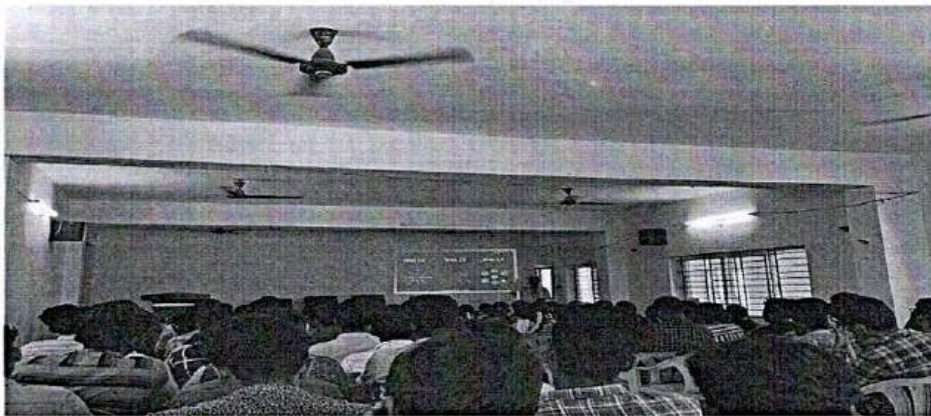
DEPARTMENT OF COMPUTER APPLICATION

VALUE ADDED COURSE(2019 – 2020)

GRAPHICS AND ANIMATION

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.



D. Shiji
CO-ORDINATOR

D. Shiji
HOD

J. M.

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VILLIANUR POST-605 110
PERAMBAL





RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
Recognized under section 2(f) of the UGC Act, 1956.

PERMISSION LETTER

FROM

Mrs.D.RAJALASHMI
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 “**ARTIFICIAL INTELLIGENCE**” for III BSC 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: “**ARTIFICIAL INTELLIGENCE**”

Name of the Co-ordinator:

Mrs.D.RAJALASHMI

Place: Perambai

Date: 29.09.2019



Yours Faithfully

D. Raj
Jam.

PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
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RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
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29.09.2019

CIRCULAR

It is hereby informed that our Computer Science department is going to conduct the value added course on “ARTIFICIAL INTELLIGENCE” for III BSC CS students. Hence the students of Computer science have to enroll their name to the course coordinator on or before 31.9.2019.

III BSC CS -“ARTIFICIAL INTELLIGENCE”

Principal

Copy to

1. Principal
2. Office
3. BSC CS

PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-005 110
PERAMBAL.



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
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About the College

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About the Department

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AGENDA

Day 1 to 10

Definition and scope of Artificial Intelligence (AI) - Historical overview of AI - Applications of AI in various domains - Basic concepts: intelligent agents, problem-solving, search algorithms. Introduction to Machine Learning (ML) - Supervised, unsupervised, and reinforcement learning

Day 11 to 20

Introduction to Deep Learning (DL) - Artificial Neural Networks (ANN) - Convolutional Neural Networks (CNN) for image analysis Fundamentals of NLP: tokenization - stemming - lemmatization - Text classification and sentiment analysis - Named Entity Recognition (NER) and part-of-speech tagging

Day 21 to 30

Ethical considerations in AI development and deployment - Bias and fairness in AI algorithms - Societal impact of AI on employment, privacy, and security



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DEPARTMENT OF COMPUTER APPLICATION

VALUE ADDED COURSE

ARTIFICIAL INTELLIGENCE

FROM 03/10/19
TO 30/11/2019

ALL ARE WELCOME



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



RAAK ARTS AND SCIENCE COLLEGE

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SYLLABUS

Course Title: "ARTIFICIAL INTELLIGENCE"

Course Objectives:

1. Understand the basic principles and techniques of artificial intelligence.
2. Learn about different types of AI algorithms and their applications.
3. Explore machine learning and deep learning concepts.
4. Gain hands-on experience with AI programming and tools.
5. Discuss ethical and societal implications of AI.

Course Duration

Duration: 30 hrs

UNIT 1: Introduction to Artificial Intelligence HRS:6

Definition and scope of Artificial Intelligence (AI) - Historical overview of AI - Applications of AI in various domains - Basic concepts: intelligent agents, problem-solving, search algorithms.

UNIT 2: Machine Learning Fundamentals HRS:6

Introduction to Machine Learning (ML) - Supervised, unsupervised, and reinforcement learning - Data preprocessing: cleaning, scaling, encoding - Model evaluation and selection: cross-validation, metrics.

UNIT 3: Deep Learning and Neural Networks HRS:6

Introduction to Deep Learning (DL) - Artificial Neural Networks (ANN) - Convolutional Neural Networks (CNN) for image analysis - Recurrent Neural Networks (RNN) for sequence modeling - Deep Learning frameworks: TensorFlow, Keras, PyTorch.



Jm.
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UNIT 4: Natural Language Processing (NLP) and AI Applications HRS:6

Fundamentals of NLP: tokenization – stemming – lemmatization - Text classification and sentiment analysis - Named Entity Recognition (NER) and part-of-speech tagging - AI applications: chatbots, virtual assistants, language translation.

UNIT 5: AI Ethics, Societal Impact, and Future Directions HRS:6

Ethical considerations in AI development and deployment - Bias and fairness in AI algorithms - Societal impact of AI on employment, privacy, and security - Future trends and directions in AI research and applications.

Reference Books:

- "Artificial Intelligence: A Modern Approach" by Stuart Russell and Peter Norvig
- "Pattern Recognition and Machine Learning" by Christopher M. Bishop
- "Deep Learning" by Ian Goodfellow, YoshuaBengio, and Aaron Courville




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RAAK ARTS AND SCIENCE COLLEGE

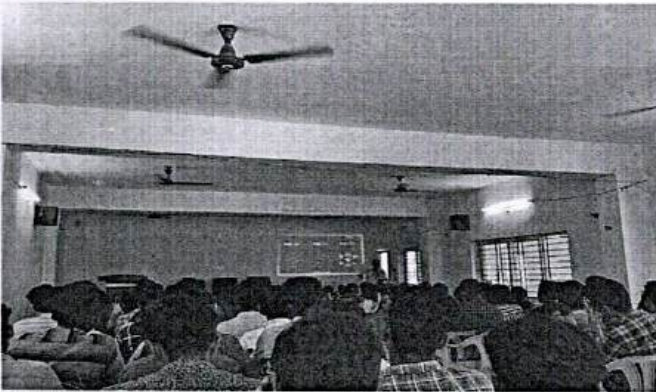
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DEPARTMENT OF COMPUTER SCIENCE

VALUE ADDED COURSE(2019 -2020)

ARTIFICIAL INTELLIGENCE 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



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RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
Recognized under section 2(f) of the UGC Act, 1956

PERMISSION LETTER

FROM

Mrs.D.RAJALASHMI
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 “**ROBOTICS**” for II BSC 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: “ROBOTICS”

Name of the Co-ordinator:

Mrs.D.RAJALASHMI

Place: Perambai

Date: 28.08.2019

Yours Faithfully

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





RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
Recognized under section 2(f) of the UGC Act, 1956.

29.08.2019

CIRCULAR

It is hereby informed that our Computer Science department is going to conduct the value added course on "ROBOTICS" for II BSC CS students. Hence the students of Computer science have to enroll their name to the course coordinator on or before 31.08.2019.

II BSC CS -"ROBOTICS"

A. M. Howard No 2.

Principal

Copy to

1. Principal
2. Office
3. BSC CS



Jam
PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-005 110
PERAMBAL.



RAAK ARTS AND SCIENCE COLLEGE

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About the College

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AGENDA

Day 1 to 10

Definition and scope of robotics - Historical overview of robotics - Applications of robotics in various fields - Robot components: actuators, sensors, controllers - Types of robots: industrial robots, mobile robots, humanoid robots
Types of sensors: proximity sensors, vision sensors, tactile sensors - Sensor fusion Techniques - Perception algorithms for object detection, recognition

Day 11 to 20

PID control. State-space representation - Path planning algorithms: A* algorithm - Trajectory planning techniques - Collision avoidance methods. Robot arms and end-effectors - Forward and inverse dynamics - Grasping and manipulation techniques - Programming languages for robotics: C/C++, Python, ROS - Motion control programming

Day 21 to 30

Robot Vision and Image Processing: Image formation - representation - filtering - feature extraction. Mobile Robotics: Kinematics and dynamics of wheeled robots - localization - mapping - navigation algorithms.



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DEPARTMENT OF COMPUTER APPLICATION

VALUE ADDED COURSE

ROBOTICS

FROM 1/08/2019

TO 25/09/2019

ALL ARE WELCOME



Jan
PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 116
PERAMBAL.



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
Recognized under section 2(f) of the UGC Act, 1956.

SYLLABUS

Course Title: "ROBOTICS"

Course Objectives:

1. Understand the fundamental principles and concepts of robotics.
2. Learn about the different types of robots and their applications.
3. Study the kinematics and dynamics of robotic systems.
4. Gain knowledge of robotic sensors and actuators.
5. Develop skills in robot programming and control algorithms.

Course Duration

Duration: 30 hrs

UNIT 1: Introduction to Robotics HRS:6

Definition and scope of robotics - Historical overview of robotics - Applications of robotics in various fields - Robot components: actuators, sensors, controllers - Types of robots: industrial robots, mobile robots, humanoid robots - Kinematics: forward and inverse kinematics.

UNIT 2: Robot Sensing and Perception HRS:6

Types of sensors: proximity sensors, vision sensors, tactile sensors - Sensor fusion techniques - Perception algorithms for object detection, recognition, and tracking.

UNIT 3: Robot Control and Motion Planning HRS:6

PID control. State-space representation - Path planning algorithms: Dijkstra's algorithm, A* algorithm - Trajectory planning techniques - Collision avoidance methods.

UNIT 4: Robot Manipulation and Programming HRS:6



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RAAK ARTS AND SCIENCE COLLEGE

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Robot arms and end-effectors - Forward and inverse dynamics - Grasping and manipulation techniques - Programming languages for robotics: C/C++, Python, ROS - Motion control programming - Task-level programming.

UNIT 5: **Advanced Topics in Robotics** **HRS:6**

Robot Vision and Image Processing: Image formation - representation - filtering - feature extraction. Mobile Robotics: Kinematics and dynamics of wheeled robots - localization - mapping - navigation algorithms. Robot Learning and AI: Reinforcement learning - learning from demonstration - deep learning for perception and control. Robotics Ethics and Societal Impact: Ethical considerations - human-robot interaction, societal implications. Emerging Trends: Swarm robotics - soft robotics, bio-inspired robotics - humanoid robotics.

Reference Books:

- "Introduction to Robotics: Mechanics and Control" by John J. Craig
- "Robotics: Fundamental Concepts and Analysis" by Ashitava Ghosal



Jan
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VILLIANUR POST-005 110
PERAMBAL.



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DEPARTMENT OF COMPUTER SCIENCE

VALUE ADDED COURSE(2019 -2020)

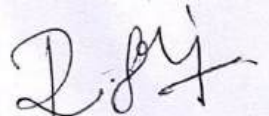
ROBOTICS

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




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VILLIANUR POST-605 110
PERAMBAL.



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
Recognized under section 2(f) of the UGC Act, 1956.

PERMISSION LETTER

FROM

Mrs.D.RAJALASHMI
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 "MACHINE LEARNING" for I BSC 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: "MACHINE LEARNING"

Name of the Co-ordinator:

Mrs.D.RAJALASHMI

Place: Perambai

Date: 31.01.2020



Yours Faithfully

PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE

VILLIAMPI - 605110

File no. 01.



RAAK ARTS AND SCIENCE COLLEGE

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Recognized under section 2(f) of the UGC Act, 1956

31.01.2020

CIRCULAR

It is hereby informed that our Computer Science department is going to conduct the value added course on "MACHINE LEARNING" for I BSC CS students. Hence the students of Computer science have to enroll their name to the course coordinator on or before 02.02.2020.

I BSC CS -"MACHINE LEARNING"

A. H. Na. R.

Principal

Copy to

1. Principal
2. Office
3. BSC CS



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



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
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 every single day.

AGENDA

Day 1 to 10

Definition and importance of machine learning - types of machine learning:

Applications of machine learning in

Various fields.

Mathematics for machine learning:

Linear algebra: vectors, matrices, eigenvalues, gradients - probability and statistics: probability distributions, mean, variance

Day 11 to 20

Data cleaning: handling missing values, outliers, and noise.

Feature scaling - Feature engineering: creating new features

Supervised Learning:

Regression: Linear regression - Polynomial regression - Regularization techniques

(Lasso, Ridge) - Classification: Logistic regression - (Random Forest, Gradient Boosting) - Support Vector Machines (SVM) - k-Nearest Neighbors

(k-NN) - Naive Bayes.

Day 21 to 30

Regression metrics: Mean Squared Error

(MSE) - R-squared. Introduction to artificial

neural networks (ANN) - Multilayer

Perceptrons (MLP). Activation

functions: sigmoid, tanh,

ReLU. Reinforcement Learning: Markov

Decision Processes (MDP) - Q-learning -

Deep Q-Networks



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DEPARTMENT OF COMPUTER
SCIENCE

VALUE ADDED COURSE MACHINE LEARNING

FROM 3/02/2020

TO 26/03/2020

ALL ARE WELCOME



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RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605
PERAMBALUR



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SYLLABUS

Course Title: "MACHINE LEARNING"

Course Objective:

The objective of this course is to provide students with a comprehensive understanding of machine learning concepts, algorithms, and applications. By the end of this course, students should be able to:

- Understand the fundamentals of machine learning and its importance in modern data-driven applications.
- Describe different types of machine learning algorithms and their underlying principles.
- Implement and evaluate machine learning models for various real-world tasks.
- Apply machine learning techniques to solve problems in domains such as healthcare, finance, and marketing.
- Critically evaluate the ethical and societal implications of machine learning technologies.

Course Duration: 30 hrs

UNIT 1: Introduction to Machine Learning: HRS: 6

Definition and importance of Machine Learning - Types of Machine Learning: supervised, unsupervised, and reinforcement learning - Applications of Machine Learning in various fields.

Mathematics for Machine Learning:

Linear algebra: vectors, matrices, eigenvalues, eigenvectors - Calculus: derivatives, gradients - Probability and statistics: probability distributions, mean, variance, hypothesis testing.

UNIT 2 Data Preprocessing: HRS: 6

Data cleaning: handling missing values, outliers, and noise.
Feature scaling - Feature engineering: creating new features, feature selection.

Supervised Learning:

Regression: Linear regression - Polynomial regression - Regularization techniques (Lasso, Ridge) - Classification: Logistic regression - Decision trees and ensemble methods (Random Forest, Gradient Boosting) - Support Vector Machines (SVM) - k-Nearest Neighbors (k-NN) - Naive Bayes.

UNIT 3 Evaluation Metrics: HRS: 6



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Regression metrics: Mean Squared Error (MSE) - R-squared.

Classification metrics: accuracy, precision, recall, F1-score, ROC curve, AUC.

Unsupervised Learning:

Clustering: K-means clustering - Hierarchical clustering - Dimensionality reduction: Principal Component Analysis (PCA) - t-Distributed Stochastic Neighbor Embedding (t-SNE).

UNIT 4 Neural Networks and Deep Learning: HRS: 6

Introduction to artificial neural networks (ANN) - Multilayer Perceptrons (MLP). Activation functions: sigmoid, tanh, ReLU. Convolutional Neural Networks (CNN) for image classification - Recurrent Neural Networks (RNN) for sequential data - Introduction to deep learning frameworks (TensorFlow, Keras, PyTorch).

Model Selection and Hyperparameter Tuning:

Cross-validation - Grid search and random search for hyperparameter optimization.

UNIT 5 Advanced Topics in Machine Learning: HRS: 6

Reinforcement Learning: Markov Decision Processes (MDP) - Q-learning - Deep Q-Networks (DQN).

Natural Language Processing (NLP): Word embeddings (Word2Vec, GloVe) - Recurrent Neural Networks for sequence modeling - Transformer models (BERT, GPT).

Time Series Analysis: ARIMA models - Seasonal decomposition - LSTM networks for time series prediction.

Ethical and Societal Implications of Machine Learning: Bias and fairness - Privacy concerns - Responsible AI practices.

Reference Books:

1. "Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow" by Aurélien Géron.
2. "Pattern Recognition and Machine Learning" by Christopher M. Bishop.
3. "Deep Learning" by Ian Goodfellow, Yoshua Bengio, and Aaron Courville.



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PERAMBAL.



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Recognized under section 2(f) of the UGC Act, 1956.

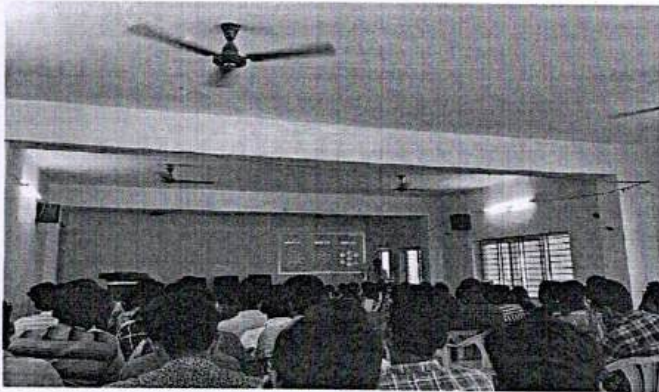
DEPARTMENT OF COMPUTER SCIENCE

VALUE ADDED COURSE(2019 -2020)

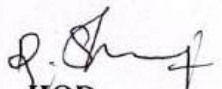
MACHINE LEARNING

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




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RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 110
PERAMBALUR



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
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 “**Vedic Mathematics**” for I B.Sc., II B.Sc., and 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: “Vedic Mathematics”

Name of the Co-ordinator:

Mr.S. RAJENDIRAN

Place: Perambai

Date : 27.08.2019

Yours Faithfully

PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605110
PERAMBAL.





RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
Recognized under section 2(f) of the UGC Act, 1956.

29.08.2019

CIRCULAR

It is hereby informed that our Mathematics department is going to conduct the value added course on "Vedic Mathematics" for I B.Sc., II B.Sc., and III B.Sc., Mathematics students. Hence the students of Mathematics have to enroll their name to the course coordinator on or before 31.08.2019.

1. I B.Sc., Mathematics - **Vedic Mathematics**
2. II B.Sc., Mathematics - **Vedic Mathematics**
3. III B.Sc., Mathematics - **Vedic Mathematics**

A. M. Hameed No 2
Principal

Copy to

1. Principal
2. Office
3. Mathematics Department



Jm.
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RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 110
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RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
Recognized under section 2(f) of the UGC Act, 1956.

About the College

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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

Overview of Vedic Mathematics- History and significance of Vedic Mathematics-Basic concepts and principles of Vedic Mathematics Basic arithmetic operations Place value system-Concept of zero and its importance in arithmetic- Mental arithmetic techniques for solving arithmetic problems

Day 11 to 20

Introduction to algebraic concepts (equations, variables, etc.) -Applications of Vedic Mathematics to solve algebraic equations-Mental arithmetic techniques for solving algebraic problems .Applications of Vedic Mathematics to solve geometric problems- Mental arithmetic techniques for solving geometric problems

Day 21 to 30

Introduction to trigonometric concepts(triangles, angles, etc.)- Applications of Vedic Mathematics to solve trigonometric problems- Mental arithmetic techniques for solving trigonometric problems



RAAK ARTS AND SCIENCE COLLEGE

DEPARTMENT OF MATHEMATICS

VALUE ADDED COURSE VEDIC MATHEMATICS

FROM 4/09/2019

TO 31/10/2019

ALL ARE WELCOME



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RAAK ARTS & SCIENCE COLLEGE
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RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
Recognized under section 2(f) of the UGC Act, 1956.

SYLLABUS

Course Title: Vedic Mathematics

Course Description: This course introduces students to the ancient Indian system of mathematics known as Vedic Mathematics, which is based on the principles of the Vedas. Students will learn how to apply Vedic Mathematics to solve problems in various fields, including arithmetic, algebra, geometry, and trigonometry.

Course Duration: 30 Hours

UNIT: 1 Introduction to Vedic Mathematics (6 Hours)

Overview of Vedic Mathematics- History and significance of Vedic Mathematics- Basic concepts and principles of Vedic Mathematics

UNIT: 2 Fundamentals of Vedic Arithmetic (6 Hours)

Basic arithmetic operations (addition, subtraction, multiplication, division)- Place value system-Concept of zero and its importance in arithmetic- Mental arithmetic techniques for solving arithmetic problems

UNIT:3 Algebraic Applications (6 Hours)

Introduction to algebraic concepts (equations, variables, etc.)-Applications of Vedic Mathematics to solve algebraic equations-Mental arithmetic techniques for solving algebraic problems

UNIT: 4 Geometric Applications (6 Hours)

Introduction to geometric concepts (points, lines, angles, etc.)- Applications of Vedic Mathematics to solve geometric problems- Mental arithmetic techniques for solving geometric problems

UNIT: 5 Trigonometric Applications (6 Hours)

Introduction to trigonometric concepts(triangles, angles, etc.)- Applications of Vedic Mathematics to solve trigonometric problems- Mental arithmetic techniques for solving trigonometric problems

REFERENCES

1. "Vedic Mathematics" by Jagadguru Shankaracharya Swami Sri Bharati Krishna Tirthaji Maharaja
2. Additional Resources: Online resources such as YouTube videos and websites may be used to supplement the course material.



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RAAK ARTS AND SCIENCE COLLEGE

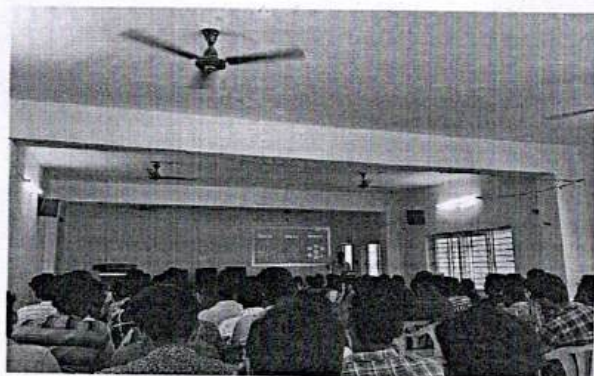
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DEPARTMENT OF MATHEMATICS VALUE ADDED COURSE (2019 -2020)

VEDIC MATHEMATICS

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
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PERAMBAL.



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
Recognized under section 2(f) of the UGC Act, 1956.

PERMISSION LETTER

FROM

Mrs. HELEN PREETHA
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 "CUSTOMER RELATIONSHIP 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: Customer Relationship Management

Name of the Co-ordinator:

Mr. PREDISH (III B.COM (CA))

Place: Perambai

Date: 28.07.2019

Yours Faithfully

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





RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
Recognized under section 2(f) of the UGC Act, 1956.

29.07.2019

CIRCULAR

It is hereby informed that our Commerce (CA) is going to conduct the value added course on "CUSTOMER RELATIONSHIP 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 30.07.2019.

III B.COM (CA), - Customer Relationship 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 UG courses and 180 students which have now grown up offering 12 UG courses, 7 PG Course 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. (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

Customer relationship management (CRM) is a system for managing all of your company's interactions with current and potential customers. The goal is simple: improve relationships to grow your business. CRM technology helps companies stay connected to customers, streamline processes, and improve profitability. Arithmetic Ability

- To create awareness about formulation and implementation of various CRM
- To make students recognize CRM impact on sales and marketing strategies



ARTS AND SCIENCE COLLEGE

(ISO 9001:2015 Certified Institution & Recognized under 210 of UGC Act - 1956 (Affiliated to Thiruvalluvar University))

Course: CUSTOMER RELATIONSHIP

MANAGEMENT

Venue:

CLASS ROOM

Department of Commerce (CA)

RAAK Arts & Science College

Start: 01.08.2019 to 12.09.2019

Organized by



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

ALL ARE WELCOME



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
Recognized under section 2(f) of the UGC Act, 1956.

SYLLABUS

CUSTOMER RELATIONSHIP MANAGEMENT

Unit 1	Introduction to CRM & its Fundamentals	(5 hrs)
	Conceptual foundations of CRM.	
Unit 2	Customer Value	(7 hrs)
	Building customer relationship	
Unit 3	Customer Value to Make Marketing Decisions	(6 hrs)
	Economics of CRM	
Unit 4		(7 hrs)
	CRM in B-C markets ,CRM in B – B market	
Unit 5	The CRM Road Map	(6 hrs)
	Operational issues in implementing CRM	

Reference :

- Baker, A., Jones, C., & Miller, D. (2022). The ultimate guide to CRM. McGraw-Hill Education.
- Clark, B., et al. (2021). Customer relationship management: A strategic approach. Pearson Education.

COURSE COORDINATOR

HOD



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



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
Recognized under section 2(f) of the UGC Act, 1956.

PERMISSION LETTER

FROM

Mrs. HELAN PREETHA
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 "GENERAL AWARENESS" 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: General Awareness

Name of the Co-ordinator:

Mr. SUGAPRAKASAM (I B.COM (CA)

Place: Perambai

Date: 28.07.2019

Yours Faithfully

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





RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
Recognized under section 2(f) of the UGC Act, 1956.

29.07.2019

CIRCULAR

It is hereby informed that our Commerce (CA) is going to conduct the value added course on "GENERAL AWARENESS" for I B.COM (CA) students. Hence the students of Business Administration have to enroll their name to the course coordinator on or before 30.7.2019.

I B.COM (CA), - General Awareness

Principal

Copy to

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



PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-005 110
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 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. (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

General Awareness is far from historical facts and events. General Awareness covers topics like International Affairs, National Affairs, Bilateral Affairs, Persons in Trending News, Sports, Places in Trending News, and Current affairs in the Banking Sector.

- To motivate the students to prepare for competitive exams.
- To enable the students to have an overall view of the society in which they live.



ARTS AND SCIENCE COLLEGE

1500 - 5001 : 2015 Certified Institution Recognized under 20th of UGC Act - 1956 (Affiliated to Thiruvalluvar University)

Course: GENERAL AWARENESS

Venue: CLASS ROOM

Department of Commerce (CA)
RAAK Arts & Science College

Start: 01.8.2019 to 12.09.2019

Organized by



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

ALL ARE WELCOME



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
Recognized under section 2(f) of the UGC Act. 1956.

SYLLABUS

GENERAL AWARENESS

Unit 1 (5 hrs)

Current Events of National and International Importance

Current social issues-Political issues-Economic issues-Business issues-International issues-Environmental issues-Sports issues

Unit 2 (7 hrs)

General and World Geography

Earth in space – Atmosphere, Atmospheric moisture, climate, Hydrosphere, Lithosphere- Landforms – Continents and oceans, mountains, plateaus and plains-Internal and External forces of Earth.-Soils, Natural vegetation and wild life-Economic , Resources, Agriculture-Industry, Transport and communication-Continents, Important cities of the world

Unit 3 (6 hrs)

International Organizations

United Nations Organizations-The Commonwealth-SAARC-ASEAN

Unit 4 (7 hrs)

Indian Geography

Land forms, Drainage, climate, Natural vegetation and wild life-Natural Resources of India-Soils, Agriculture, Animal Husbandry and fishing, Mineral Resources, Energy-Industry, Transport and communication.-The people, settlements and migration

Unit 5 (6 hrs)

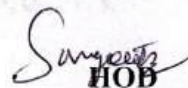
Economic and Social Development

National income and structural change-Foreign Trade, Foreign capitals-Prices, Indian currency

Reference :

- Ogilvy, D. (2011). The advertising creative: From brief to billboard. New York, NY: Sterling Publishing.


COURSE COORDINATOR


HOB


PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR ROAD, VELLORE
TAMIL NADU





RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
Recognized under section 2(f) of the UGC Act, 1956.

PERMISSION LETTER

FROM

Mrs. HELAN PREETHA
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 " VISUALIZING AND COPY WRITING FOR ADVERTISING" 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: Visualizing and Copy Writing For Advertising

Name of the Co-ordinator:

Mr. KRISHANAKUMAR (II B.COM (CA)

Place: Perambai

Date: 28.07.2019

Yours Faithfully

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





RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
Recognized under section 2(f) of the UGC Act, 1956.

29.07.2019

CIRCULAR

It is hereby informed that our Commerce (CA) is going to conduct the value added course on "VISUALIZING AND COPY WRITING FOR ADVERTISING" for II B.COM (CA) students. Hence the students of Business Administration have to enroll their name to the course coordinator on or before 30.07.2019.

II B.COM (CA)., - Visualizing and Copy Writing For Advertising

Principal

Copy to

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



Jan.

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.

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RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore

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 interdisciplinary skills

ABOUT THE COURSE

Visuals attract attention and draw viewers in.; while copywriting explains the message and motivates action. Visuals can evoke emotions and create a desired mood.; while copywriting reinforces these emotions and provides rational arguments. A strong visual can make a complex message easier to understand.; while compelling copy can add depth and meaning to a simple image.

- To familiarize with the basic concepts of design in Advertising for specific media.



RAAK ARTS AND SCIENCE COLLEGE

(ISO-9001:2015 Certified Institution X Recognized under 21st of UGC Act - 1956 (Affiliated to Thiruvalluvar University))

Course: VISUALIZING AND COPY WRITING FOR ADVERTISING

Venue:

CLASS ROOM

Department of Commerce (CA)
RAAK Arts & Science College

Start: 01.08.2019 to 12.09.2019

Organized by



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



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University Vellore
Recognized under section 2(f) of the UGC Act, 1956.

SYLLABUS

VISUALIZING AND COPY WRITING FOR ADVERTISING

Unit 1 (5 hrs)

Overview of the Advertising: World and Indian perspective Advertising Agencies: Structure and functions

Unit 2 (7 hrs)

Creativity in Advertising, Writing for Different Media: Style and Formats Copywriting, Creative Writing, Copy and Art platform, Qualities of copy writer, Structure of Ad copy.

Unit 3 (6 hrs)

Visualization in Advertising, Elements and Principles of Design, Typography, Logo, Illustration, Layout design, Graphics and Visual effects.

Unit 4 (7 hrs)

Discussing the successful Advertising Campaign Target Audience Analysis.

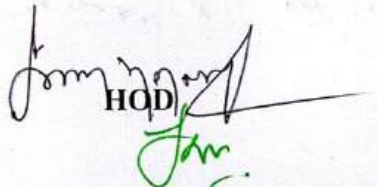
Unit 5 (6 hrs)

Understanding Media and Communication Strategy-Introduction to IMC components Creating Advertising strategy and planning

Reference :

- Ogilvy, D. (2011). *The advertising creative: From brief to billboard*. New York, NY: Sterling Publishing.
- Wells, W., Burnett, J., & Moriarty, S. (2013). *Advertising principles and practice: A global perspective (8th ed.)*. McGraw-Hill Education.


COURSE COORDINATOR


HOD
PRINCIPAL

RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-005 110
PERAMBAL.





RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
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 "COMPANY SECRETARY" 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: COMPANY SECRETARY

Name of the Co-ordinator:

R. DEVAKI (III B.COM)

Place: Perambai

Date: 11.06.2019

Yours Faithfully

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





RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
Recognized under section 2(f) of the UGC Act, 1956.

13.06.2019

CIRCULAR

It is hereby informed that our Commerce Department is going to conduct the value added course on "COMPANY SECRETARY " for III BCOM students. Hence the students of our Commerce Department have to enroll their name to the course coordinator on or before 17.06.2019.

III BCOM - COMPANY SECRETARY

Principal

Copy to

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



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



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
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 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.

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

Affiliated to Thiruvalluvar University, Vellore
Recognized under section 2(f) of the UGC Act. 1956

Course:
COMPANY SECRETARY

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

Start: 19/06/2019 TO
25/07/2019

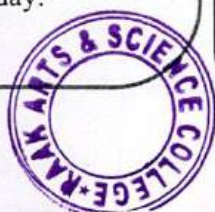
Organized by



Department of Commerce
RAAK Arts & Science
College
Perambai, Villianur

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VILLIANUR POST-605 110
PERAMBAL.





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SYLLABUS

COMPANY SECRETARY

(6hr)

Unit 1:

Introduction to company law, corporate governance, and business communication - Legal framework of companies, types of business entities, corporate governance principles, and basic communication skills.

Unit 2:

(6hr)

Company law, focusing on specific legal provisions, regulations, and compliance requirements relevant to company secretaries - Corporate legal structures, incorporation procedures, directors' duties, shareholders' rights, and regulatory compliance.

Unit 3:

(6hr)

Corporate governance and boardroom dynamics - The role and responsibilities of the board of directors, board committees, corporate ethics, boardroom behavior, and stakeholder management.

Unit 4:

(6hr)

Financial accounting and reporting principles relevant to company secretaries - Financial statements analysis, accounting standards, auditing procedures, budgeting, and financial risk management.

Unit 5:

(6hr)

Strategic management and leadership skills necessary for company secretaries - Strategic planning, organizational behavior, leadership styles, change management, and corporate social responsibility.



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



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
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 "ENVIRONMENTAL MANAGEMENT AND LAW " 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: ENVIRONMENTAL MANAGEMENT AND LAW

Name of the Co-ordinator:

R.DEVAKI (I B.COM)

Place: Perambai

Date: 3.09.2019

Yours Faithfully

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





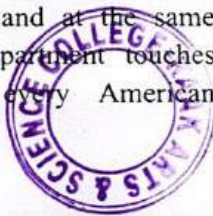
RAAK ARTS AND SCIENCE COLLEGE

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



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

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Course:
**ENVIRONMENTAL
MANAGEMENT AND
LAW**

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

Start: **09/09/2019 TO
17/10/2019**

Organized by



Department of Commerce
RAAK Arts & Science
College
Perambai, Villianur

ALL ARE WELCOME

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RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 110
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RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
Recognized under section 2(f) of the UGC Act, 1956.

SYLLABUS

ENVIRONMENTAL MANAGEMENT AND LAW

Unit 1: Introduction to Environmental Management and Law (6hr)

Overview of environmental management principles and practices - Historical development of environmental law - International environmental agreements and conventions - Key concepts in environmental law (pollution, conservation, sustainability) - Role of government agencies and regulatory bodies in environmental management

Unit 2: Environmental Policy and Planning (5hr)

The role of environmental policy in shaping environmental management strategies - Policy instruments for environmental management (regulation, economic incentives, voluntary agreements) - Environmental impact assessment (EIA) processes and procedures - Sustainable development goals and their implications for environmental policy and planning

Unit 3: Environmental Law Framework (7hr)

Sources of environmental law (constitutional provisions, statutes, regulations, case law) - Principles of environmental law (precautionary principle, polluter pays principle, principle of sustainable development) - National and international legal frameworks for environmental protection - Enforcement mechanisms and penalties for environmental violations

Unit 4: Biodiversity Conservation and Natural Resource Management (6hr)

Legal frameworks for biodiversity conservation and protected areas - Endangered species protection laws and conventions - Sustainable management of forests, water resources, and fisheries - Indigenous rights and traditional knowledge in natural resource management.

Unit 5: Pollution Control and Waste Management (6hr)

Law and regulations addressing air pollution, water pollution, and soil contamination on Hazardous waste management and disposal regulations - Environmental liability and remediation - Corporate responsibility and environmental compliance




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DEPARTMENT OF COMMERCE
VALUE ADDED COURSE (2019 -2020)
ENVIRONMENT MANAGEMENT AND LAW
SUMMARY REPORT

The course on Investment Banking offered a comprehensive overview of the financial strategies and practices involved in the field. It covered key topics such as financial markets, valuation techniques, mergers and acquisitions, and capital raising through debt and equity. Emphasis was placed on understanding the role of investment banks in facilitating corporate finance transactions and advising clients on complex financial matters. The course combined theoretical concepts with practical case studies to provide students with a solid foundation in investment banking principles and practices, preparing them for careers in finance and related fields.

G. Gounder
COURSE COORDINATOR

S. Sangeetha
HOD



Jam
- PRINCIPAL
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PERAMBAL.



RAAK ARTS AND SCIENCE COLLEGE

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Recognized under section 2(f) of the UGC Act, 1956.

PERMISSION LETTER

FROM:

Mr. MARSHAL
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 Course on "INTELLIGENCE FOR EXCELLENCE" 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 permission for above said programs.

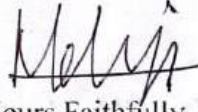
Thanking you

Course Name: "INTELLIGENCE FOR EXCELLENCE"

Name of the Co-ordinator: R.DEVAKI

Place: Perambai

Date: 26.09.2019


Yours Faithfully




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



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
Recognized under section 2(f) of the UGC Act, 1956.

30.09.2019

CIRCULAR

It is hereby informed that our Commerce department is going to conduct the value added course on "INTELLIGENCE FOR EXCELLENCE" 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 31.09.2019.

I M COM - "INTELLIGENCE FOR EXCELLENCE"

II M COM - "INTELLIGENCE FOR EXCELLENCE"

A. M. Harindharan

Principal

Copy to

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

Jar

PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 010
PERAMBAL.



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
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 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). Programmes 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

- 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

"Intelligence for Excellence" refers to the study and application of various types of intelligence to achieve high levels of performance and success in different fields. This concept encompasses a holistic understanding of intelligence, including not just cognitive or intellectual abilities but also emotional, social, and practical intelligences. Here's an overview of key aspects involved in studying Intelligence for Excellence

- Curricula designed to develop multiple intelligences in students.
- Programs focused on enhancing specific intelligences, such as emotional intelligence workshops. Marketing of Innovation.



RAAK ARTS AND SCIENCE COLLEGE

COURSE: INTELLIGENCE FOR EXCELLENCE

DATE: 03.10.2019

VENUE: CLASS ROOM

Department of Commerce
(PG)

RAAK Arts & Science
College

Organized by



Department of Commerce
(PG)

RAAK Arts & Science
College
Perambai, Villianur

ALL ARE WELCOME

Jan

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SYLLABUS

Course Title: INTELLIGENCE FOR EXCELLENCE

Unit I

Self Intelligence: Intelligence: Definition and Meaning – Intelligence cycle- Self Intelligence: Personality - Strategic thinking - Lateral Thinking- Emotional Intelligence: Self awareness - Motivation – Self regulation- Social awareness – Empathy - Decision making: meaning-methods types and steps in making effective decision making

Unit II

Multiple Intelligence: Meaning and types of Multiple intelligence- Successful Intelligence Meaning and types of Successful Intelligence-Creative Intelligence- Practical Intelligence - Analytical Intelligence.

Unit III

Interpersonal intelligence: Definition- Meaning and development of interpersonal intelligence –Interpersonal intelligence and career advancement- Negotiation: Definition and meaning – Principles involved in negotiation – methods of negotiation- Conflict: Definition and meaning – sources of conflicts – types of conflicts - conflict management; Change: Definition and meaning— Types of change – Handling of change – Balancing work and Life

Unit IV

Social Intelligence: Meaning and Dimensions of Social Intelligence- Situation- Presence – Authenticity – Clarity-Empathy -Spiritual Intelligence: Meaning-Competencies and skills of spiritual intelligence

Unit V

Environmental Intelligence: Understanding and caring of Natural Resources- Food-Land Forests, Mineral, Water and Energy- Pollution: Types: Air Pollution, Water Pollution,



Jan
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Noise Pollution, Thermal and Radiation; Specific Absorption Rate (SAR) values; Issues affecting environment: Population growth – Deforestation- Globalization - Sustainable development: meaning, process, concrete action plans for sustainability.

TEXT BOOK:

1. Karl Albrecht(2006),” Social Intelligence: The new science of Success”, John Wiley & Sons.
2. Robert J Sternberg(2000),” Successful Intelligence”, Magna Publishing Co Ltd.

REFERENCE BOOK:

1. Daniel Goleman(1995),” Emotional Intelligence”, Bantom Books.
2. Dorathy A Sisk and Dr Paul Torrence(2001),” Spiritual Intelligence”, Creative Education Foundation

COURSE COORDINATOR

HOD

PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR
PERAMBAR





RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
Recognized under section 2(f) of the UGC Act, 1956.

PERMISSION LETTER

FROM

SUGNATHI,
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 "ANALYTICAL TOOLS IN CHEMISTRY" for B.sc chemistry 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: ANALYTICAL TOOLS IN CHEMISTRY

Name of the Co-ordinator: SUGANTHI

Place: Perambai

Date: 26.1.2018

Sug

Yours Faithfully



Jar

PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST 605 110
PERAMBAI



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
Recognized under section 2(f) of the UGC Act, 1956.

28.1.2018

CIRCULAR

It is hereby informed that our B.SC CHEMISTRY is going to conduct the value added course on "- ANALYTICAL TOOLS IN CHEMISTRY " for II B.SC students. Hence the students of B.SC chemistry have to enroll their name to the course coordinator on or before 30.1.2018

II B.SC - ANALYTICAL TOOLS IN CHEMISTRY

A. M. Harand No 2.

PRINCIPAL

Copy to

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



Jan.
PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 118
PERAMBAL.



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
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.



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Recognized under section 2(f) of the UGC Act, 1956

DEPARTMENT OF CHEMISTRY

VALUE ADDED COURSE
ANALYTICAL TOOLS
IN
CHEMISTRY

FROM

22/0

7/20

22

TO

17/0

9/20

22

ALL ARE WELCOME



Jam

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VILLIANUR POST-605 110
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RAAK ARTS AND SCIENCE COLLEGE

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Recognized under section 2(f) of the UGC Act, 1956.

SYLLABUS ANALYTICAL TOOLS IN CHEMISTRY

Unit I: Introduction to Analytical Chemistry

- Basic concepts and principles of analytical chemistry, Classification of analytical methods, - Measurement errors and statistical analysis, Laboratory safety and good laboratory practices

Unit II: Analytical tools covered

- Analytical balances, Filtration apparatus, Crucibles and desiccators.

Unit III: Volumetric Analysis

- Principles of volumetric analysis,
- Acid-base titrations, redox titrations, and complexometric titrations
- Calculation of concentration and stoichiometry in volumetric analysis

Unit IV: Instrumental Analysis

- Introduction to instrumental methods of analysis, Spectroscopic techniques (UV-Vis, IR, NMR, MS), Chromatographic techniques (GC, HPLC, TLC).

Unit v: Analytical tools covered

- Spectrophotometer, Gas chromatography, High-performance liquid chromatography
- Electrochemicals cells and electrodes
- Thermal analyze



Jan
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RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 118
PERAMBAL.



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
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 – 60511

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 "MATLAB" 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: "MATLAB"

Name of the Co-ordinator:

Mr. G.A. MOHAN

Place: Perambai

Date : 27.08.2019

Yours Faithfully



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



RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore
Recognized under section 2(f) of the UGC Act, 1956.

29.08.2019

CIRCULAR

It is hereby informed that our Mathematics department is going to conduct the value added course on "MATLAB" 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 31.08.2019.

1. I M.Sc., Mathematics - **MATLAB**
1. II M.Sc., Mathematics - **MATLAB**

H. J. Thirumala
Principal

Copy to

1. Principal
2. Office
3. Mathematics Department

Jam.

PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 110
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RAAK ARTS AND SCIENCE COLLEGE

Affiliated to Thiruvalluvar University, Vellore.
Recognized under section 2(f) of the UGC Act, 1956.

About the College

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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 MATLAB programming- Setting up MATLAB and installing toolboxes-Basic data types and variables in MATLAB-Basic operators in MATLAB- Control Structures:If-else statement- Switch statements- Loops (for, while, do-while)-Conditional statements- Introduction to functions in MATLAB-Creating and calling functions-Passing arguments and returning values- Function debugging

Day 11 to 20

Introduction to data visualization in MATLAB-Creating plots using plot()- Customizing plots using title(), xlabel(), and ylabel()-Creating interactive plots using plotyy()-Solving linear systems using inv() and solve()-Solving differential equations using ode45()- Using MATLAB's built-in functions for numerical integration

Day 21 to 30

Introduction to object-oriented programming in MATLAB-Creating classes and objects-Inheritance and polymorphism-Encapsulation and abstraction



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DEPARTMENT OF MATHEMATICS

VALUE ADDED COURSE

MATLAB

FROM 4/09/2019

TO 31/10/2019

ALL ARE WELCOME



Jam

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SYLLABUS

Course Title: MATLAB Programming

Course Description: This course introduces students to the MATLAB programming language, a popular tool for numerical computation and data analysis
Course Duration: 30 Hours

UNIT: 1 Introduction to MATLAB (6 Hours)

Introduction to MATLAB programming-Setting up MATLAB and installing toolboxes-Basic data types and variables in MATLAB-Basic operators in MATLAB- Control Structures:If-else statement-Switch statements- Conditional statements

UNIT: 2 Functions (6 Hours)

Introduction to functions in MATLAB-Creating and calling functions-Passing arguments and returning values- Function debugging

UNIT: 3 Data Visualization (6 Hours)

Introduction to data visualization in MATLAB-Creating plots using plot()-Customizing plots using title(), xlabel(), and ylabel()-Creating interactive plots using plotyy()

UNIT: 4 Scientific Computing (6 Hours)

Introduction to scientific computing in MATLAB-Solving linear systems using inv() and solve()-Using MATLAB's built-in functions for numerical integration


UNIT: 5 Object-Oriented Programming (6 Hours)

Introduction to object-oriented programming in MATLAB-Creating classes and objects-Inheritance and polymorphism-Encapsulation and abstraction

REFERENCES

1. "MATLAB Programming" by Michael C. Jones
2. "MATLAB: A Practical Introduction to Programming and Problem Solving" by Stormy Attaway
3. "MATLAB User's Guide" by The MathWorks


COORDINATOR


HOD




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