

Master of Computer Applications

Chairman's Desk



It is my pleasure to congratulate you on your interest for enrolling yourself as a student in our group of Institutions, which are well known for the discipline, quality education and personality development. Our students have excelled not only in academic activities by obtaining university ranks but also have proved their mettle by taking part in Curricular, Co-curricular and extracurricular activities. Presently, a knowledge explosion is being ushered in our midst especially in information technology. We are working with a vision of the future of India, to bring about progressive changes in Science, Engineering & Technology which will bring progress and prosperity to our country. We are convinced that “Character is the crown and glory of life”. We believe in quality education, progress through discipline, knowledge through devotion and satisfaction through service to the student community. We are dedicated to meet the challenges of the new millennium in the field of medical and technical higher education so as to make our country a highly industrialized and healthy modern Nation.

**Dr.A.C.Shanmugam, B.A.LLB, FIMSA,
FRCPS (Glasgow, UK)
Former MLA. MP., Chairman,
RajaRajeswari Group of Institutions**

Vice Chairman's Desk



Education is presently undergoing a welcome seismic change. In tune with the changing time, RajaRajeswari Group of Institutions aims to help students to excel in the various fields of study of their choice. In the field of education, RajaRajeswari Group of Institutions is looking at engaging the students in overall developmental processes. We have designed co-curricular and extracurricular activities for the students to be involved actively. The dedicated staff is devoted to the task of incorporating latest teaching methods with modern equipments and electronic gadgets for the benefit of the students. These proactive teaching methodologies have resulted in higher performance in examinations and academic activities.

The main focus of our Institutions is to empower students with sound knowledge, wisdom, experience and training both in the academic level and in the highly competitive global industrial market. The infrastructure facilities and state-of-the-art equipments contribute to an enjoyable and an easy learning experience. Adequate care is taken to give every student an enjoyable well-rounded and secure educational environment. We wish the best for our students and along with the staff and professors at RajaRajeswari Group of Institutions; we aim at providing the best facilities in both academics and extracurricular field.

A.C.S. Arun Kumar, B.Tech (Hons)., LMISTE.,MIET.,(UK)., LMCSI.
Vice Chairman, RajaRajeswari Group of Institutions

Overview of Master of Computer Applications

Dept. of MCA established in 2009 with an intake of 60. MCA Department is well equipped with laboratories, Qualified and dedicated faculty members. Our department has well equipped classrooms and computers with high-end systems. The students are trained to be perfect blend of current industry knowledge and skill of computer applications.

The specialty of our course is to produce front line developers in the area of web based enterprises solution, embedded systems & networking. The students have equal competence in open source and proprietary systems and can adopt themselves to either technology.

Vision

To be a department of excellence in technical education, widely known for the development of application developers, IT professionals, entrepreneurs, researches creates benefit all of humanity.

Mission

- To ensure diverse knowledge integration with industry for creative learning and application.
- To nurture talent in usage of application of Digital Intelligence and use of Power of technology.
- To create entrepreneurs thro incubating technology businesses and committee to create and sustaining to be societal relevant education
- To ensure the student connect at personal level and focus on to holistic development with Intellectual, Emotional, Spiritual and Behavioral traits.

Objectives

Programme Educational Objectives (PEOs)

- **PEO1:** To progress into the software industry, academia, research, entrepreneurial pursuit, government, consulting firms, and other recent trends in technology enabled services.
- **PEO2:** To achieve peer recognitions an individual or team; by adopting ethics and professionalism and communicating effectively to perform well in cross-culture and inter-disciplinary teams.
- **PEO3:** To continue lifelong professional development in computing for the benefit of self- and societal growth

Program Outcomes

- **PO1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

- **PO2: Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations
- **PO4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO6: The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice
- **PO7: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO11: Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes

- **PSO-1:** Understand the principles of Computer Applications and enrich knowledge in recent advancements and developments in Software Industries.
- **PSO-2:** Competent in programming and computing skills, ability to apply software development methodologies and modeling to solve real world problems.
- To motivated the Students to learn through various programs about emerging technologies.
- To impart comprehensive knowledge with equal emphasis on theory and practice.
- To train future industry professionals

Course @ Glance

- Object Oriented Programming with Java
- Operating System
- Mathematical Foundation for Computer Applications
- Research Methodology & IPR
- Database Management System
- Data Structures with Algorithms
- Web Technologies
- Software Engineering and Design Patterns
- Cyber Security
- Data Mining and Business Intelligence
- Optimization Techniques
- Cryptography and Network Security
- Artificial Intelligence
- Supply Chain Management
- Distributed Operating Systems
- Natural Language Processing
- Machine Learning & Data Analytics using Python
- IOT
- Blockchain Technology
- Cloud Computing
- Digital Marketing
- NOSQL
- Deep Learning
- Big data Analytics

Jobs for an MCA graduate

- Hardware Engineer.
- Software Developer. Database Engineer
- Data Scientist
- Cloud Architect

- Web Designer and Developer
- Technical Writer
- IT Architect

Infrastructure

- Java Programming Lab
- Unix Programming Lab
- Computer Networks Lab
- DBMS Lab
- Data Structures Lab
- Web Technologies Lab
- Data Analytics Lab
- IoT Lab
- Advances in Java Lab
- Python Programming Lab
- OOMD Programming Lab
- .Net Programming Lab
- Mobile Applications Programming Lab

Journal Publications / Patents:

- ✓ T. Subburaj, Deeraj C , Shraddha S, Prasad H R, AN IOT APPLICATION FOR MILITARY CAMP SECURITY, European Chemical Bulletin.
- ✓ T. Subburaj.et.al, “**Discover Crypto jacker from blockchain using AFS method**”, Springer, 2023. Proceedings of Fourth International Conference on Computer and Communication Technologies, Lecture Notes in Networks and Systems book series, 145-156, (Mar 2023)
- ✓ T. Subburaj. et.al, **Statistical Evaluation of Network Packets in an Intrusion Detection Mechanism Using ML and DL techniques**, Cybernetics and Systems, DOI: 10.1080/01969722.2023.2175137, Impact Factor: 1.859
- ✓ T. Subburaj. et.al , “**Descriptive analytics Solution for Attack Detection by utilizing Deep Learning Strategies**” , IEEE Digital Explore , Electronic ISBN:978-1-6654-6047-7
Print on Demand (PoD) ISBN: 978-1-6654-6048-4 DOI: 10.1109/STCR55312.2022.10009596
- ✓ T. Subburaj.et.al, “**Discover Crypto jacker from blockchain using AFS method**”, Springer, 2022. (Accepted) Proceedings of Fourth International Conference on Computer and Communication Technologies, IC3T 2022. (Mar 2023)
- ✓ **Title of the invention:**
Prediction of Intelligent level (IQ) of Children Below the normal level results in retardation using AI & ML Techniques
Patent Number: 202341008048
Patent by: Indian Government
- ✓ **Title of the invention:**
Deep Learning Analytical Monitoring of IoT based smart vehicles to avoid cyber attacks
Patent Number: 202341021861
Patent by: Indian Government
- ✓ Dr. Annu Sharma was invited as a resource person at Ramnagar Campus University of Jammu at Dept. Of Computer Science and IT. She delivered lectures on Cloud Computing to MCA Students of the campus on 13th Feb. and 14th Feb 2023.
- ✓ Dr. Annu Sharma and Jai Shankar M published paper entitled “**Speech Emotion Feelings Recognition Biometric Using Machine Learning**” in Dogo Rangsang Research Journal , Vol-13, Issue-6, N0.13, June 2023(**Indexed in UGC- Care List-1**)

- ✓ Dr. Annu Sharma and JayaShree published paper entitled “**Traceability of the Crop Food Supply Chain using Smart Contract**” in Dogo Rangsang Research Journal , Vol-13, Issue-6, N0.12, June 2023(**Indexed in UGC- Care List-1**)
- ✓ Dr. Annu Sharma filed and published Patent “AI based system for classroom Attendance Management” with Application no. 20234103992, Date: 12/06/2023.

Academic News and Awards:

- I year MCA: 60 Students
- II year MCA: 58 Students

Awards:

II year Student Tilak H N got Programming Java in NPTEL certification with Gold Badge



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

TILAK H N

for successfully completing the course

Programming in Java

with a consolidated score of **91** %

Online Assignments	24.88/25	Programming Assignment	25/25	Proctored Exam	41.25/50
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Total number of candidates certified in this course: **6899**

Jul-Oct 2022
(12 week course)





Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS102S64754877

To validate the certificate



No. of credits recommended: 3 or 4

II year Student Archana R Mulge got Programming Java in NPTEL certification with Silver Badge



Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)



This certificate is awarded to
ARCHANA R MULGE
for successfully completing the course



Programming in Java
with a consolidated score of **79** %

Online Assignments	24.88/25	Programming Assignment	25/25	Proctored Exam	28.67/50
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Total number of candidates certified in this course: **6899**

Jul-Oct 2022
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

 Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS102S64750624

To validate the certificate 

No. of credits recommended: 3 or 4

II year Student Chandana K L completed the Programming in Java in NPTEL certification



NPTEL Online Certification
(Funded by the MoE, Govt. of India)



This certificate is awarded to
CHANDANA K L
for successfully completing the course

Programming In Java
with a consolidated score of **54** %

Online Assignments	18.09/25	Proctored Exam	35.5/75
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Total number of candidates certified in this course: **9357**

Jan-Apr 2023
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

 Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS49S23234005

To validate the certificate 

No. of credits recommended: 3 or 4

II year Student Gagan GR completed the Programming in Java in NPTEL certification



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
GAGAN GR
for successfully completing the course

Programming In Java

with a consolidated score of **57** %

Online Assignments	24.69/25	Proctored Exam	32/75
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Total number of candidates certified in this course: 9357

Jan-Apr 2023
(12 week course)



Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



II year Student Girish completed the Programming in Java in NPTEL certification



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
GIRISH
for successfully completing the course

Programming In Java

with a consolidated score of **56** %

Online Assignments	24.47/25	Proctored Exam	31.13/75
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Total number of candidates certified in this course: 9357

Jan-Apr 2023
(12 week course)



Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS49S13230981

To validate the certificate



No. of credits recommended: 3 or 4

Third Sem VTU Exam Result



MCA Toppers



Shraddha S

92.3%



Bhavana G

89.6%



Jayashree

89.2%



Monika R

87.8 %



Yashaswini K S

87.1 %



Bhavya C

86.3%

Department of
MASTER OF COMPUTER APPLICATIONS



RAJARAJESWARI
COLLEGE OF ENGINEERING
#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560 074.



First Sem VTU Exam Result **MCA Toppers**



Nagendra Kumar K S
91.5%



Nayana G N
89.13%



Sadiq
88.75%



Devika Y J
88.37%



Lakshmi Kantha T M
87.13 %

Congratulations

Department of
MASTER OF COMPUTER APPLICATIONS



**RAJARAJESWARI
COLLEGE OF ENGINEERING**
#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560 074.



Congratulations



VTU 1st Semester Exam : June 2023

On secured

99/100



Subject: Mathematical Foundation's of Computer Applications



DEVIKA Y J

Department of
MASTER OF COMPUTER APPLICATIONS

II year Student Bhavana G Won Third Place in VTU State Level Yoga Championship, Inter zone Tournament 2022-2023



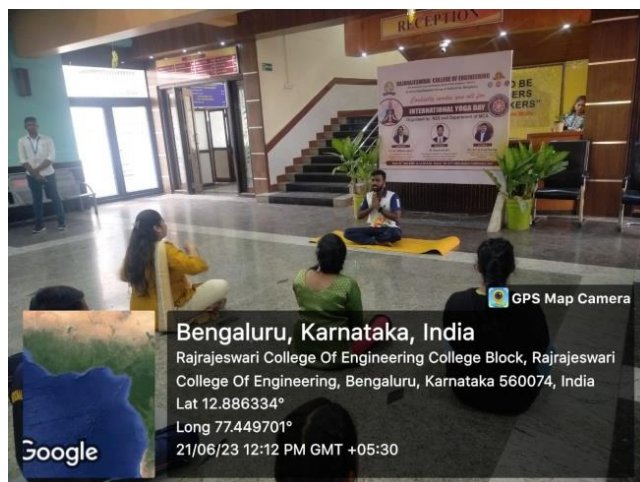
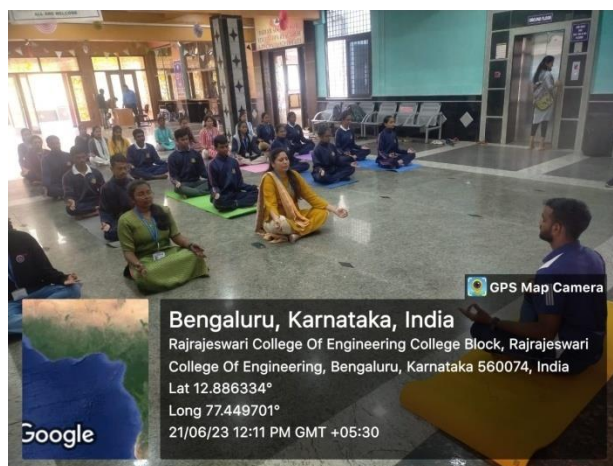
News & Events

International Yoga Day 2023

Date: 21-06-2023

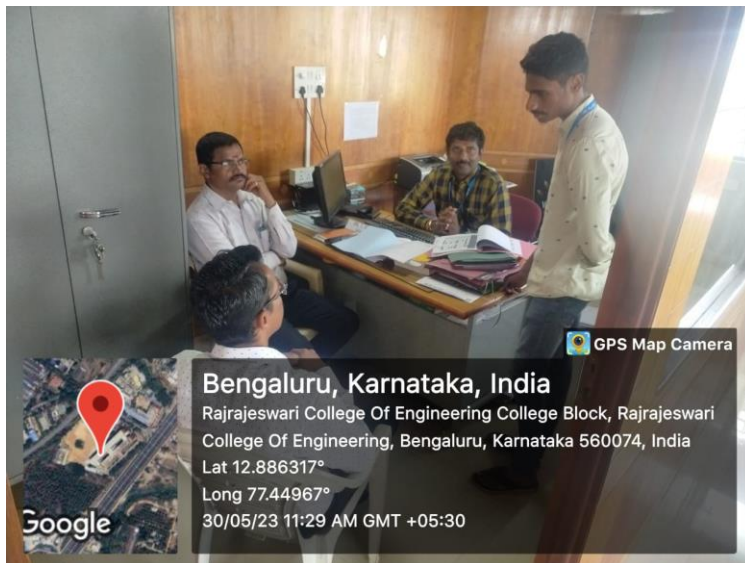
Time: 11:30 AM to 1.00PM

Chief Guest: Mr. M. Rajeshachari, International Medalist in Yogasana Sports, Founder of Acharya Yoga



Parents Teachers Meeting

A Parent-Teachers Meeting was conducted on 30/05/2023 from 10:00 Am to 12:00 Noon in the Department of MCA, RRCE.



Skill Set for Industry 4.0 and Resume Building – 2023

Alumni Interaction Program on Skillset for Industry 4.0 and Resume Building

Resource Person: MR. Pavan Kumar S, Qualitest, Bangalore

Date: 29th May 2023

Time: 10:30 AM – 12:30 PM

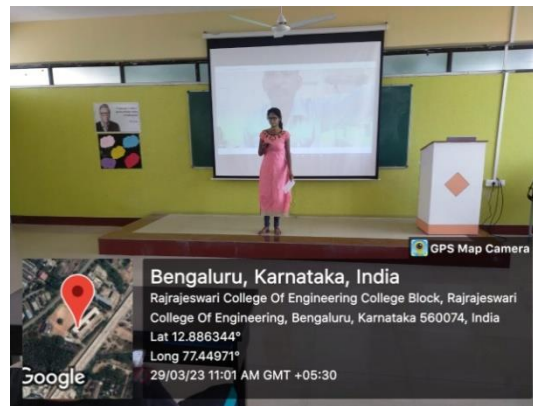
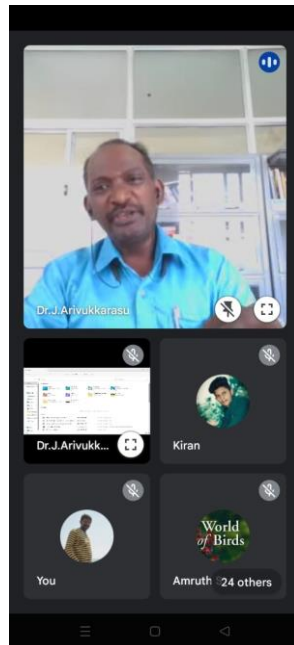


Alumini Interaction Program 2023

We organized Alumini interaction on Placement preparation on 15- 05-2023



Online Webinar - Nuances of Mathematics in Computer Applications



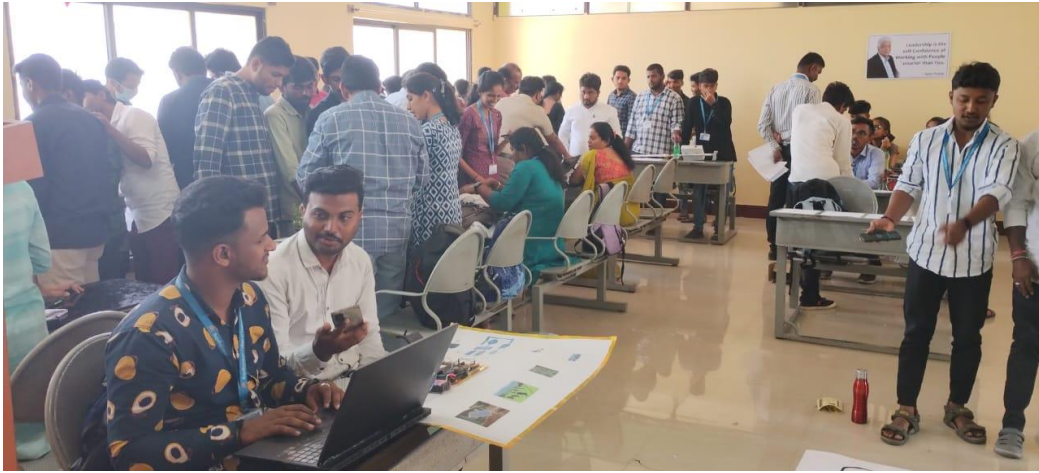
Seminar on Machine Learning, Cloud Computing (AWS) and Blockchain Technologies

Dept of MCA organizing Seminar on Machine Learning, Cloud Computing (AWS) and Blockchain Technologies on 10-03-2023



IoT Project Expo-2023

Dept of MCA organizing IoT Project Expo-2023 on 22-02-2023



Outbound Activities

MCA Department organized outbound activities on 21-02-2023



One week Orientation Program For Fresher's

MCA Department organized one week Orientation Program (13.02.2023 to 21.02.2023) for Fresher's.



TECHNOPARV 2023

Dept of MCA organized one day Technical Festival “TECHNOPARV 2023” on 20-01-2023.



Student Voice



Shreya Prakash Hegde

Second Year

Department of MCA

RRCE

We need quality higher education from a reputable university to succeed in our careers. RRCE is one such institution that assisted me in realizing my aspirations. I am grateful and delighted that I am able to do my MCA at RRCE. The department had the most experienced and skilled instructors. We now have a great platform at college to achieve our goals. I can certainly state that RRCE has improved me as a person. It assisted me in adopting an optimistic outlook on my life. Teachers showed a great deal of concern for the welfare of their students. Every class was meant to be enjoyable, instructive, and participatory.



Shraddha S

Second Year

Department of MCA

RRCE

I am doing second year MCA in RRCE. RRCE has given me lots of experiences in terms of education and also in finding good career. I feel happy, for doing MCA from RRCE, because Department of MCA has high profile faculties who have enormous knowledge and highly skilled. RRCE has given me an opportunity to engage with various resource persons, who were frequently interacting with us. Indeed, those sessions were eye opener for me. Placement in RRCE was great and it had given equal opportunity for all the students.



Nandini C
First Year
Department of MCA
RRCE

I feel very happy that I took admission in this institute. It is a very great institute and much disciplined college. The teachers are very good and frank. They easily communicate and solve the student's problem. There is a huge library in which all subject related books are available. The college also organizes various competitions and gives chance to every student to participate.

From my point of view RRCE is the best path to build the career.



Meghana N
First Year
Department of MCA
RRCE

I am doing First year MCA in RRCE. I feel happy, for doing MCA from RRCE, because Department of MCA has high profile faculties who have enormous knowledge and highly skilled. RRCE has given me an opportunity to engage with various resource persons, who were frequently interacting with us. Indeed, those sessions were eye opener for me. Placement in RRCE was great and it had given equal opportunity for all the students



Punith M

First Year

Department of MCA

RRCE

My college provides a great environment for students. Student can share their problem with the faculty members without any hesitation. Faculty member are always ready to help each & every student any time.

The way of teaching is very good. Proper facilities are provided to each and every student regarding games and some more extracurricular activities. Our institute is very well disciplined



Bhavana S

First Year

Department of MCA

RRCE

I believed in the Institution and today I am proud to be a part of it. Our MCA department has excellent faculty and they have groomed us very well. We have consistent and meaningful interactions with faculty members who looked like them and often had similar backgrounds. In addition, students felt that the professors went “beyond their professionally related responsibilities by expressing genuine interest and concern for their students’ entire development.

Alumini Voice



APOORVA.A

Asst. Professor

Dept. of BCA

New Horizon College, Marathalli

To be successful in our careers we need good Higher Education in a good institution, RRCE is one such institution which helped me realize my dreams. I feel happy and blessed to have completed my MCA at RRCE; the Department had the best profile of faculty who were highly knowledgeable and skilled. College has provided us excellent platform for fulfilling our dreams. I can positively say RRCE has made me a better person. It helped me develop a positive attitude towards my life. Teachers were very caring and interested in student's well-being. They made sure every class was fun, educational and interactive.



Manoj Kumar G A

Software Engineer

vRize India Pvt Ltd

I had finished my master degree from RRCE; RRCE had given me lots of experiences in terms of education and also in finding good career. I feel happy, for completing my master degree from RRCE, because Department of MCA has high profile faculties who have enormous knowledge and highly skilled. RRCE has given me an opportunity to engage with various resource persons, who were frequently interacting with us during our course time. Indeed, those sessions were eye opener for me. Placement in RRCE was great and it had given equal opportunity for all the students.



ARAVIND V
Software Engineer
Dept. of MCA
Expleo Solution Pvt Ltd

We need quality higher education from a reputable university to succeed in our careers. RRCE is one such institution that assisted me in realizing my aspirations. I am grateful and delighted that I was able to complete my MCA at RRCE. The department had the most experienced and skilled instructors. We now have a great platform at college to achieve our goals. I can certainly state that RRCE has improved me as a person. It assisted me in adopting an optimistic outlook on my life. Teachers showed a great deal of concern for the welfare of their students. Every class was meant to be enjoyable, instructive, and participatory.

Placement Details

S.No	USN	Name	YOP	Campus - Mode	Company Name
1	1RR21MC004	Amrutha S	2023	On-Camps	TeXTRON
2	1RR21MC004	Anusha S	2023	On-Camps	Pallee Technologies
3	1RR21MC006	Archana R Mulge	2023	On-Camps	Global Quest technology, Pentagon Space
4	1RR21MC007	Ashish Krishna P	2023	On-Camps	Onepaper
5	1RR21MC009	Bhavya C	2023	On-Camps	SKIPLOOP
6	1RR21MC011	Chandan K	2023	On-Camps	Vista's Learning
7	1RR21MC015	Deeraj C	2023	On-Camps	Rinex, Faceprep, Onepaper
8	1RR21MC017	Diana Jennifer S	2023	On-Camps	Megaaopes ,Global Quest
9	1RR21MC018	Faisal Pasha A	2023	On-Camps	Rinex, Vista's Learning Onepaper,
10	1RR21MC028	Jyothi Ashok	2023	On-Camps	Vista's Learning
11	1RR21MC031	MadhuKumar A P	2023	On-Camps	SKIPLOOP
12	1RR21MC036	Monika R	2023	On-Camps	SKIPLOOP
13	1RR21MC037	Niranjan R	2023	On-Camps	Onepaper
14	1RR21MC039	Nischita A P	2023	On-Camps	Vista's Learning
15	1RR21MC042	Premanth Gowda T S	2023	On-Camps	SKIPLOOP
16	1RR21MC043	Pushpalatha G	2023	On-Camps	SKIPLOOP
17	1RR21MC047	Shreya Prakash Hegde	2023	On-Camps	Global Quest technologies, Skiploop
18	1RR21MC048	Tilak H N	2023	On-Camps	Agile point
19	1RR21MC053	Yashaswini K S	2023	On-Camps	SKIPLOOP
20	1RR21MC056	Dhanush R	2023	On-Camps	SKIPLOOP
21	1RR21MC060	Vinay G B	2023	On-Camps	SKIPLOOP