

Moogambigai Charitable and Educational Trust

# RAJARAJESWARI COLLEGE OF ENGINEERING

(Affiliated to the Visvesvaraya Technological University, Belgaum Recognized by the AICTE, New Delhi)

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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING



## VO'ISE - NEWS LETTER

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### **Institutional Vision**

“To provide an open opportunity to young generation for evolving their core competencies helping them to build their career as global professionals to be an autonomous institution by achieving excellence in the field of higher education”

### **Institutional Mission**

"To Consistently strive for academic excellence to become a leading Institution in the field of Engineering, Management and Research To produce competent and ethically sound manpower for the benefit of industry, society, nation and the global environment."

### **Vision of ISE Department**

“To emerge as a leading department in the field of information science and engineering, by providing quality of education”

### **Mission of ISE Department**

“To develop a center of excellence to offer broad need based curricula, innovative teaching and research in the field of information science and engineering and to produce competitive, self-disciplined information technology professionals



A.C. Shanmugam., B.A.L.L.B,  
FIMSA, FRCPS (Glasgow, U.K)  
Chairman,  
RajaRajeswari Group of Institutions

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



Dr. Neha Singhal  
Associate Professor, & HOD  
Information Science and Engineering  
RRCE, Bangalore, Karnataka, India

It's my privilege to welcome you all to the Dept. of Information Science & Engineering at RajaRajeswari College of Engineering, Bangalore. The Department has recorded consistent improvement in its academic, research and placement performance. The Department believes in improving quality education to make every student competent and socially responsible. The Department has full-fledged laboratories with latest software's and Systems which support the curriculum. The Department organizes programmes for Student Development, Faculty Development including Personality Development Camp, Soft Skills, National Level Technical Symposium, International Conferences, Workshops and Hands-on - Training on a regular basis in order to service the students for their contribution to industry and society. The department seeks to combine excellence in education and research to meet current needs of industries. Our mission is to create high quality professionals in Information Science & Engineering and to foster leading edge research.

**EVENTS OF THE DEPARTMENT DURING ACADEMIC YEAR 2022–2023:**

**Visit to “U R Rao Satellite Centre”**

**Title of the event:** ISRO Visit

**Type of the event:** Visit to “U R Rao Satellite Centre”

**Event Schedule:** 23-02-2023

**Venue:** U R Rao Satellite Centre HAL Old Airport Road, Vimanapura, Bangalore

**Target Participants:** 3 rd year Information Science and Engineering Students(56)

**Faculty coordinators:** 1.DR.Neha singhal HOD-ISE

2.Prof. Vijayalaxmi,AP-ISE

**Outcome of the program:**

This visit was mainly focused on to understand the procedures involved in making of satellites.

- Students got to know about the technology, the equipment's being used.
- Got to know about the test undergone before launching of the satellites, such as
- temperature test, vibration test, sound test etc.
- The current projects being held by ISRO are
- Project ADITYA
- Project CHANDRAYAN-3
- Project GAGANYAN
- Student witnessed the models of all kind of satellites like
- ARYABHATTA,GSLV,PSLV
- Student understood the procedure to join ISRO and perks of joining ISRO.



## **Industrial Visit – 2023**

**Title of the event:** Industrial Visit

**Type of the event:** Visit to “Bangalore International Exhibition Center “to participate in the exhibition of India Energy Week.

**Event schedule:** 08-02-2023

**Venue :** Bangalore International Exhibition Center

**Target Participants :** 1 st year Information Science and Engineering Students(53).

**Faculty coordinators:** Ms.Sinchana,AP-ISE, Mrs.Pavithra N ,AP-ISE

### **Outcome of The Program:**

- The India Energy Week was inaugurated by PM Modi. The event is to focus on energy security and India’s energy transition goals. Knowledge about the biofuels, energy supply chains etc.
- The students were able to gain knowledge about hydrogen vehicles for green environment, model's of renewable energy, generation of ammonia, energy production due to our forceful steps. Knowledge about how to utilize each and every form of energy.



## **Seminar on Corporate Culture and Etiquette**

**Resource Person:** Mr. Anoop R N , core member of IT supply chain management

**Date:** 23rd January 2022

**Time:** 10:00 AM to 12:00 PM

**Number of Participants:** 52

### **Objective of the Workshop :**

The objective of the workshop is to enable students to understand :

- How Culture plays a significant role?
- Problems to solve
- Project objective
- Market trends
- Trend Analysis

### **Outcome of the Program:**



The students were able to understand corporate culture and its importance.

- Corporate culture to change the vision.
- How culture plays a significant role.
- Case study and its importance.
- Etiquette and its importance.
- Have a high-level understanding of the organization.



## **Industrial Visits to Channapatna Craft Park**

**Date:** 18th January 2023

**Venue:** Chanpatna Craft Park

**Target Participants:** 2nd year Information Science and Engineering Students.

### **Outcome of The Program:**

- Understanding the legacy of channapatna toys making.
- Comparison of modern and traditional manufacturing process.
- Knowledge about the CNC Machines and tools that were used to make toys.
- Knowledge about the software called Corel Draw to design the product to carry out the operation.
- Knowledge about the different kinds of woods and other materials used in the process of making toys





## **Workshop on SQL with Hands On**

**Resource Person:** Mr. Tokala Durga Rao Senior Technical

Manager Oracle, Bangalore

**Date:** 7th January 2023

**Time:** 10:00 AM to 12:30 PM

**Objective of the Workshop:** The objective of the workshop is to enable students to understand overview of

- Data management systems.
- Relational model and query languages.
- Database design using the ER Model, ER Diagrams,UML Class Diagrams.
- Relational database design and normalization.
- A brief introduction to decision support and data analysis.

**Target Participants:** 26

### **Outcome of the Program:**

- The students were able to understand database concepts and data management system software
- Have a high level understanding of major DBMS components and their functions
- The students were able to write SQL commands to create tables and indexes.
- The students were able to program a data intensive application using DBMS APIs.



## **Innovate 2022 – Prototype Exhibition at ISE**

Chief Guest: **Mr.B.V.Sudharshan, Deputy Managing Director, Nettur Technical Training Foundation, Bangalore.**

Date: **23rd July 2022**

Time: **9:00 AM to 4:00 PM**

Venue: **Dr APJ Abdul kalam Conference Room & Intelligent Computing Lab, II Floor**

### **Objective of the Exhibition:**

To provide an open opportunity to the budding Information Science Engineers to exhibit their creativity & innovative ideas by making a working model prototype and present them for refinement and get suggestions for further improvement to make it as a product.

**Target audience:** The Exhibition is open for UG & PG Students of RRCE

**Number of Participants:** 42 Participants. (13 Teams)

## **Prize Winners**

<b>Sl. No</b>	<b>Title of the Prototype</b>	<b>Team Members &amp; Mentors</b>	<b>Position &amp; Reward</b>
<b>1</b>	Proctoring System (AI Based) for Online examination	Dr. T. Subburaj Sanjana R Sushmitha C N Chaithra K	I Place Shield & Certificates
<b>2</b>	AI based assistant for unsigned hearing impaired and inarticulate	Dr Neha Singhal Nandhini R Jayashree N Nikhila S	II Place Shield & Certificates
<b>3</b>	Indian Sign Language to speech Conversion for HSI People	Ms. Bhoomika K S Nithish Kumar E Devaraju G Rajashekar G	II Place Shield & Certificates



**Dr.T.Chandrashekar, Principal of RRCE is giving memento to the Chief Guest**  
**Winners are gave away with Shield and Certificates**



**Students Participants in the inauguration function on 23<sup>rd</sup> July 2022 @ 10.00 A.M**

## **Overseas Education – US Study Web Exp**

The departments of Computer Science and Engineering, Information Science and Engineering, Master of Computer Applications (M.C.A) and Nestlings are jointly inviting the students, parents and faculty members to attend a career guidance webinar on “Overseas Education – US Study Web Expo on 15th October @ 6 PM”.

The university delegates from United States of America will be imparting firsthand knowledge about their respective universities and programs. Kindly share it among the Engineering students as it can help them plan for their higher studies or job opportunities.

Students can grab offers from universities.

Session Highlight:

- Direct Interaction with US Universities.
- Get counseled by universities’ Experts
- Get your profile assessed from universities
- How to avail Scholarship

**Rajarajeswari College of Engineering**  
Mysore road, Ramohalli cross, Rambagalur, Bangalore- 560 074

**Nestlings & Dept of CSE, ISE & MCA**

**nestlings**  
College to Career

**Overseas Education Web Expo**  
15th October @ 6pm  
[Join the Webinar](#)

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world

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**Co-ordinators**

Dr. T. Chandrashekar Principal - RRCE	Dr. S. Usha Dean - R&I
Dr. J. Amutharaj HOD - ISE & VP - RRCE	Dr. Neha Singhal HOD - MCA
Dr. T. Subburaj ASP - ISE	Mrs. Kirubha ASP - CSE
Dr. T. Kamalraj ASP - CSE	

## **PUBLICATIONS BY FACULTY MEMBERS OF ISE DEPARTMENT**

### **International Journals and Conference Publications:**

1. Dr. J. Amutharaj, "Hyper spectral Image Classification Model Using Squeeze and Excitation Network with Deep Learning" Hindawi Computational Intelligence and Neuro science, Volume 2022 | Article ID 9430779 | <https://doi.org/10.1155/2022/9430779> (SCOUPS INDEXED)
2. Dr. J. Amutharaj, "A security model to protect the isolation of medical data in the cloud using hybrid cryptography" Journal of Information Security and Applications, Volume 73, March 2023, 103412, <https://doi.org/10.1016/j.jisa.2022.103412>
3. Gadde, S., Amutharaj, J. , Usha, S. , "A Hybrid Cryptography Technique for Cloud Data Security", International Journal of Engineering Trends and Technology, 2022, 70(11), pp. 258–267, ISSN: 2231 – 5381, <https://doi.org/10.14445/22315381/IJETT-V70I11P22> (Scopus)
4. Gadde, S., Amutharaj, J., Usha, S., "Cloud Multimedia Data Security by Optimization-Assisted Cryptographic Technique", International Journal of Image and Graphics, 2023, 2450010, DOI: <https://doi.org/10.1142/S0219467824500104> (Scopus, ESCI)
5. Swetha Gadde, J. Amutharaj, S. Usha, "Data Security on Cloud by Cryptographic Methods Using Machine Learning Techniques", International Journal of Computer Science and Network Security, May 2022, Vol. 22 No. 5 pp. 342-347, <https://doi.org/10.22937/IJCSNS.2022.22.5.49> (Web of Science)
6. Neha Singhal “Fire Detection and Extinguishing Robot” at UGC JOURNAL- 2022 at RRCE Bangalore.



7. N. Singhal, U. S, Kirubha, J. S and Amutharaj, "Integration of IoT for Industry Automation using Machine Learning Technique," 2022 International Conference on Digital Transformation and Intelligence (ICDI), Kuching, Sarawak, Malaysia, 2022, pp. 252-257, doi: 10.1109/ICDI57181.2022.10007229.

### **International Conferences:**

8. Neha Singhal " International Conference on Digital Transformation and Intelligence (ICDI2022) " a Conference of ESTCON-2022
9. Neha Singhal "Towards Frequent Itemset Mining On Encrypted Cloud Data with Practical Privacy Protection" Proceeding in IEEE at ICETEM -2022 RRCE Bangalore.
10. Neha Singhal "Passport: Creating And Verifying Proofs In A Secure And Private Environment" Proceeding in IEEE at ICETEM -2022 RRCE Bangalore.
11. Neha Singhal" Data Access Control For Cloud Storage With Secure And Expensive Crypt Cloud +" Proceeding in IEEE at ICETEM -2022 RRCE Bangalore.
12. Neha Singhal" Predictine Analysis For Big Martsales Using Machine Learning Algorithms" Proceeding in IEEE at ICETEM -2022 RRCE Bangalore.
13. Neha Singhal"Access Control For Time Sensitive Data In A Public Cloud Using Time Factor Together" Proceeding in IEEE at ICETEM -2022 RRCE Bangalore.
14. Neha Singhal"A Scalable Attribute Based Access Control Scheme With Fexiable Sharing of Access Privileges For Cloud Storage" Proceeding in IEEE at ICETEM -2022 RRCE Bangalore.
15. Neha Singhal"Optimizing Information Leakage In Multicloud Storage Services" Proceeding in IEEE at ICETEM -2022 RRCE Bangalore.
16. Neha Singhal"Detection Of Depression In Social Media Messages Using Python Regex" Proceeding in IEEE at ICETEM -2022 RRCE Bangalore.

- 17.Neha Singhal”Intelligent Traffic Monitoring System” Proceeding in IEEE at ICETEM – 2022 RRCE Bangalore.
- 18.Neha Singhal”For Multiauthority Cloud Storage, Secure And Effective Attribute Based Access Control” Proceeding in IEEE at ICETEM – 2022 RRCE Bangalore.
- 19.Neha Singhal”Emotion Recognition By Textual Tweets Classification Using Voting Classifier” Proceeding in IEEE at ICETEM – 2022 RRCE Bangalore.
- 20.Neha Singhal”Agricultural Crop Recommendations Based On Productivity And Seasion” Proceeding in IEEE at ICETEM – 2022 RRCE Bangalore.
- 21.Neha Singhal” Detecting Fake Accounts on social media” Proceeding in IEEE at ICETEM – 2022 RRCE Bangalore.
- 22.Neha Singhal”Fire Detection And Extinguishing Robot ” Proceeding in IEEE at ICETEM – 2022 RRCE Bangalore.
- 23.Neha Singhal” Heart Disease Prediction Using ML ” Proceeding in IEEE at ICETEM – 2022 RRCE Bangalore.
- 24.Neha Singhal” Crime Pridiction By State “ Proceeding in IEEE at ICETEM – 2022 RRCE Bangalore.

### **PUBLICATION BY STUDENTS**

1. Coronavirus Detecting using Machine Learning(IJRAR (Chandana p, Deepashree s Rannore,Maheshwari, Dr. R Balakrishna)  
E-ISSN: 2348-1269, P-ISSN:2349-5138
2. Vision Based Malware Detection  
(Dr. T Subburaj, Sandesh M S, Vijetha S Meti,Faisal Ahmed)  
E-ISSN : 2348-1269, P-ISSN:2349-5138 (IJRAR)
3. An IOT framework for heart disease predication using MDCNN classifier  
(Dinesh kumar M, Dr. J Amuthraj, Anush K, Geethana R, Reshma S Gowda)  
E-ISSN : 2348-1269, P-ISSN:2349-5138 (IJRAR)

4. Prevention of wild fire by easily fire and smoke detection  
(Dr. J Amuthraj, Divya V, Harshitha M)  
E-ISSN : 2348-1269, P-ISSN: 2349-5138 (IJRAR)
5. Indian sign language to speech conversion for HIS people  
(Devaraj G, Nithish kumar E, Rajshekar K G, Bhoomika K S,  
Dr. J Amuthraj )  
E-ISSN : 2348-1269, P-ISSN:2349-5138 (IJRAR)
6. AI Based Assistant for unsighted, hearing imporing and unarticulate  
(Joyashree N, Nandini R, Nikhila S, Dr.Neha Singhal, Assist prof.  
Deepa KR) E-ISSN : 2348-1269, P-ISSN:2349-5138 (IJRAR)

### **FACULTY DEVELOPMENT PROGRAMMA (FDP'S)**

Ms. SINCHANA MN” Attended a webinar on entrepreneurship journey for students to convert their ideas into business conducted by IETE Chennai center on 7/02/2023.

Presented a technical talk on “Text Analytics and NLP” at dept of CSE, Jaypee Institute of Information Technology, Noida in one week FDP on Data Intelligence and Applications” on 14 JAN 2023.

Attended a faculty development program on “Arduinio” 1/7/2022-15/08/202 at ACS College of Engineering, BENGALURU

Attended a Innovation Ambassador training at advanced level 30 hours-15 sessions Conducted by MOE INNOVATION CELL & amp;AICTE during the 2021-22, 15/10/2022

Attended a motivational talk on “Entreneurial Skill Development” 8 th January 2022 at RRCE, BENGALURU

### **PLACEMENT DETAILS**

SL.NO	Name	USN	Phone Number	Email-id	Company Name	Package
1	Poornima.R	1RR19IS026	8073210663	rajupoornima70@gmail.com	Global Quest Technologies	Intern
2	Niveditha v	1RR19IS025	7760151692	niveditha1101@gmail.com	Intellipaat	9 LPA

3	Shalini K	1RR19IS036	6360355997	shalini10012001@gmail.com	Honeywell	6 LPA
4	A R Shalini	1RR19IS001	9108434229	shalinirajkumar0406@gmail.com	Intellipaat	9 LPA
5	Vishranth kh	1RR19IS055	9740832634	Vishranthkh@gmail.com	Vintrus	5 LPA

### **LIST OF STUDENTS PARTICIPATED IN SPORTS/NCC**

SL.NO	NAME OF THE STUDENTS	EVENTS	PLACE	RESULTS
<u>1</u>	Rachana D Shetty	ATC/ Watermanship Training Camp	SJ(GOVT) Polytechnic Bangalore	Participated
<u>2</u>	Rachana D Shetty	Annual Training Camp	Brindavan College of Engineering, Dwarakanagar, Bangalore	Participated
<u>3</u>	Rachana D Shetty	All India Girls Trekking Expedition	Ooty	Participated
<u>4</u>	Rachana D Shetty	CATC/NSC PHASE-1, KARWAR	Karwar	Participated

### **Class Toppers in the Examination of Academic Year 2022 - 2023:** **ISE Department Toppers First Semester**

**#RRCE #ISE Department Toppers appreciated with Shield and Certificates:**

Department of #Information Science and Engineering of #RRCE students **Ms. Soundarya H J** secured **93.11%**, **Ms. Bagyashree Basavaraj** secured **88.33%**, **Ms.Shruthi (88.0%)** , **Ms.H. Pushpalatha (86.67 %)** and **Ms.Likitha R(85.7%)** of overall percentage, first class with distinction and class toppers during the VTU First Semester University Examinations held during Feb/ March 2022.The Management, The Principal, Deans, Vice Principal, HOD, Subject teachers, and faculty members appreciated them and congratulated them and wish them success in their future endeavors

SL.NO	NAME	USN	PERCENTAGE	RANK
1	Ms. Soundarya H J	1RR22IS053	93.11%	FIRST
2	Ms. Bagyashree Basavaraj	1RR22IS005	88.33%	SECOND

3	Ms.Shruthi	1RR22IS052	88.0%	THIRD
4	Ms.H. Pushpalatha	1RR22IS017	86.67 %	FOURTH
5	Ms.Likitha	1RR22IS025	85.7%	FIFTH



**Class Toppers in the Examination of Academic Year 2022 - 2023:**  
**ISE Department Toppers Fifth Semester**

Session:2020			Department : Information Science	
Batch 2020-2024			Sem:5	
R 4.3 Top 10 List (Max. Marks : 700)				
SL.NO	Name of the Students	USN	Marks Obtained	Percentage
1.	1RR20IS019	MANASA B J	768	85.3%
2.	1RR20IS004	ANUSHA MAHESH	750	83.3%
3.	1RR20IS009	DIVYASHREE G	750	83.3%
4.	1RR20IS024	MUDASIR HASHMAT WANI	744	82.7%
5.	1RR20IS007	DEEPTI R	738	82.0%
6.	1RR20IS019	MANASA B J	732	81.3%
7.	1RR20IS002	AMOGH M	730	81.1%



8.	1RR20IS030	PRAJWAL R	727	80.8%
9.	1RR20IS029	POOJA J	714	79.3%
10.	1RR20IS034	RASHIKA M	712	79.1%
<b>Session:2020</b>			<b>Department : Information Science</b>	

#### **Editorial Board**

- ❖ **Dr. Neha Singhal Professor & Head Dept. of ISE,RRCE**
- ❖ **Mrs. Sinchana MN, Assistant Professor, Dept. of ISE,RRCE**
- ❖ **Ms.Renuka & Ms.Priyanka Dept. of ISE,RRCE**
- ❖