



R. J. COLLEGE of Arts, Science & Commerce (AUTONOMOUS)

(Hindi Vidya Prachar Samiti's) **RAMNIRANJAN JHUNJHUNWALA COLLEGE of Arts, Science & Commerce**

Opposite Ghatkopar Railway Station, Ghatkopar (West), Mumbai 400086, Maharashtra, INDIA.

Website: www.rjcollege.edu.in Email: rjcollege@rjcollege.edu.in Tel No: +91 22 25151763 Fax No: +91 22 25150957

College is recognized under Section 2(f) & 12(B) of the UGC Act, 1956

Affiliated to UNIVERSITY OF MUMBAI || NAAC Re-Accredited 'A' Grade (CGPA: 3.50)

Notice :



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Department of Computer Science

Notice

Date: April 04, 2022

The Department of Computer science organizing Certificate Course "Emerging Technologies in Computer Science" for SYCS students from 21st April 2022 to 30th April 2022.

This course includes following Programming Languages:

1. R Programming
2. IoT and Arduino
3. Robotics
4. Computer Graphics

Students have to register on <https://forms.gle/VG5r2GBCxGwZ8wUUA> (open till 16th April, 2022)

Note: Once the course is completed students have to submit exams and their score must be above 40% then only they can receive a certificate after completion.

In-Charge

Principal



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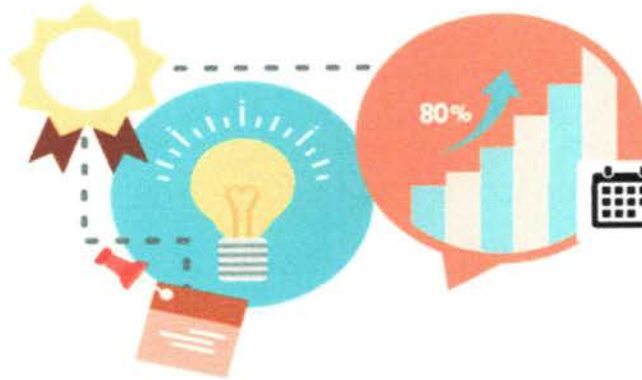
DEPARTMENT OF COMPUTER SCIENCE

Organizes

Value Added Course

“Emerging Technologies in Computer Science”

- 1.R Programming
- 2.IoT and Arduino
- 3.Robotics
- 4.Computer Graphics



21st April 2022 To
30th April 2022

Registration Link : <https://forms.gle/GE6hSUqGivMCRRwU9>



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Syllabus:

Course: III	Emerging Technologies In Computer Science Course Code: RJSUGCS03
Objective: To understand the different Programming Languages.	
Expected Learning Outcomes: 1) To learn about R Programming and how to use R for effective data analysis. 2) To understand the basics of arduino board and its components. 3) To understand the basics Robotics with AI and its components. 4) Interpret the mathematical foundation of the concepts of computer graphics describe the fundamentals of animations.	
Unit-I	R Programming Introduction to R, R Installation, RStudio IDE, R advantage and disadvantage, R Packages, List of R Packages, R Basic Syntax, R Data type, variable in R programming, R Keywords.
Unit-II	IOT and Arduino Iot and Basics of Arduino, Arduino Board, Installation of IDE and Power Supply, Arduino programming, Input output Devices, Interfacing IO modules
Unit-III	Robotics What is a Robot?, Types of Robot Control, What is Robotics?, Difference in Robot System and Other AI Program, Applications of Robotics, Robot Components, Robot Locomotion, Effectors and Actuators, Degree of freedom Locomotion, Manipulation, Sensors.
Unit-IV	Computer Graphics Overview of Computer Graphics, Computer graphics Applications and Software Description of some Graphics devices, Input Devices for operator, Interaction, Active and Passive Graphics Devices, Display Technologies, Cathode Ray Tube Basics, Colour CRT Raster Scan Basics, Raster and random scan display. Scan conversion-Digital Differential Analyzer(DDA) algorithm, Bradenham's Line drawing algorithm, Midpoint Circle drawing algorithm



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Time Table:

Value Added Course Time Table (2021-2022)

Day	Date	Time	Topics	Faculty
1	21/04/2022	9 am - 11 am	Arduino Bot and Basics of Arduino, Arduino Board	Nilam Shelar CS
		11am - 12 pm	Computer Graphics Overview of Computer Graphics, Computer graphics Applications and Software Description of some Graphics devices	Saba Shaikh CS
2	22/04/2022	9 am - 11 am	Computer Graphics Input Devices for operator, Interaction, Active and Passive Graphics Devices, Display Technologies	Saba Shaikh CS
		11am - 12 pm	Arduino Installation of IDE and Power Supply	Nilam Shelar CS
		3pm - 4 pm	Assignment Arduino	Nilam Shelar CS
3	23/04/2022	9 am - 11 am	Arduino Arduino programming, Input output Devices	Nilam Shelar CS
		11am - 12 pm	Computer Graphics Cathode Ray Tube Basics, Colour CRT Raster Scan Basics, Raster and random scan display.	Saba Shaikh CS
4	25/04/2022	9 am - 11 am	R Programming Introduction to R, R Installation, RStudio IDE, R advantage and disadvantage	Vinita Singh CS
		11am - 12 pm	Robotics What is a Robot?, Types of Robot Control, What is Robotics?	Pooja Kushwaha CS
		3pm - 4 pm	Assignment Computer Graphics	Saba Shaikh CS
5	26/04/2022	9 am - 11 am	Robotics Difference in Robot System and Other AI Program Applications of Robotics, Robot Components, Robot Locomotion	Pooja Kushwaha CS
		11am - 12 pm	R Programming Packages, List of R Packages, R Basic Syntax	Vinita Singh CS
		9 am - 11 am	R Programming R Data type, variable in R programming	Vinita Singh CS



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6	27/04/2022	9 am - 11 am	R Programming R Data type, variable in R programming	Vinita Singh CS
		11am - 12 pm	Robotics Effectors and Actuators, Degree of freedom Locomotion	Pooja Kushwaha CS
		3pm - 4 pm	Assignment R Programming	Vinita Singh CS
7	28/04/2022	9 am - 11 am	Robotics Manipulation, Sensors.	Pooja Kushwaha CS
		11am - 12 pm	R Programming R Keywords	Vinita Singh CS
8	29/04/2022	9 am - 11 am	Computer Graphics Digital Differential Analyzer(DDA) algorithm, Bradenham's Line drawing algorithm, Midpoint Circle	Saba Shaikh CS
		11am - 12 pm		Nilam Shelar
		3pm - 4 pm	Assignment Robotics	Pooja
9	30/04/2022	9am - 11 am	Evaluation	Google Form



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VALUE ADDED COURSE

Short Term Training Program on "Value Added Course"

Department of Computer Science

Date : April 21,2022 To April 30,2022

Time : 9:00 am To 12:00 pm

Students Benefited: Undergraduate students of all streams

Number of Teachers Involved: 04- Prof. Vinita Singh, Prof. Nilam Shelar, Prof. Saba Shaikh, Prof. Pooja Kushwaha.

Included Courses: R Programming, IOT & Arduino, Robotics, Computer Graphics

Number of students enrolled in the year: 110

Number of Students completing the course in the year: 104

YouTube Link:

Topic	YouTube Link
R Programming	https://youtu.be/97M-7DX7T_Q
IOT & Arduino	https://youtu.be/g6Pnn0p1V1U
Robotics	https://youtu.be/IVZ0qz0yC6U
Computer Graphics	https://youtu.be/Y7RDamTsubU




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Report

The Department of Computer Science has organized a Value Added Course for Undergraduate Students of all streams on "R Programming, IOT & Arduino, Robotics, Computer Graphics". The Students were Guided about the different modules available in R Programming, IOT & Arduino, Robotics, Computer Graphics and what are the future scope available in it.

The Duration of value added course is 30 hours out of which 26 online sessions are conducted and 4 sessions assigned for evaluation purposes.

Total 110 Students Participated in the course out of which 104 students are eligible for the certificate.

Objectives:

The Value Added Courses aim to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of students. The main objectives of the program are:

- 1) The objective of the R Programming module is to make students exercise the fundamentals of statistical analysis in the R environment.
- 2) The objective of Arduino To provide knowledge of different Smart System applications and to familiarize students with Arduino as IDE, programming language & platform.
- 3) The objective of Robotics understanding of how to program robots and computers that control manufacturing automation.
- 4) The objective of Computer Graphics includes the basic concepts of computer graphics and It provides the necessary theoretical background and demonstrates the application of computer science to graphics.




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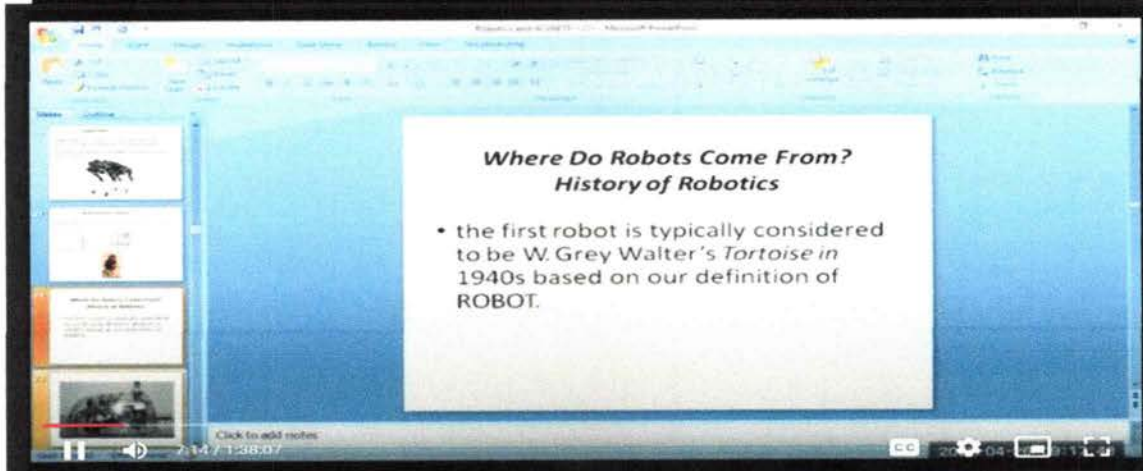
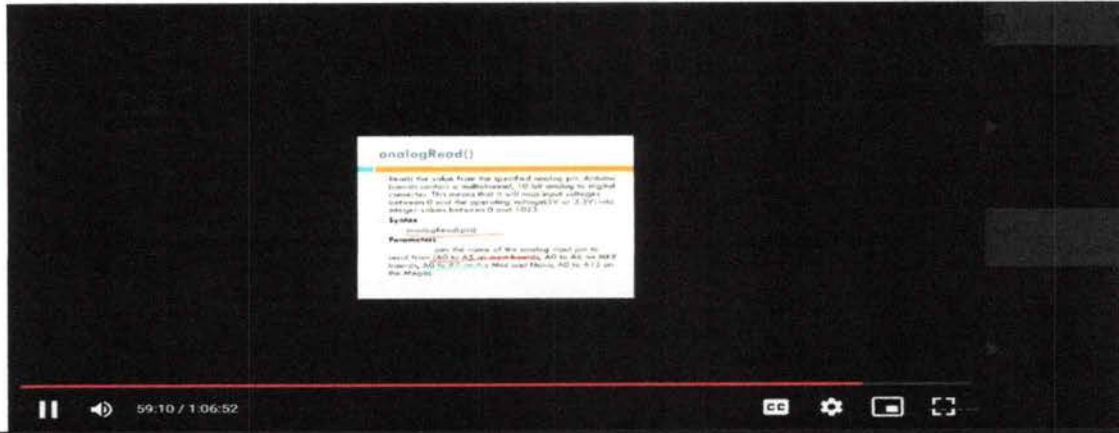
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List of Certified Participants:

Sr. no.	Full Name of Student	Class
1	Rishi sunil gupta	Sybsc
2	Yadav Palak Subhashsingh	TYBCOM
3	Singh damini bhagwan prasad	Fybsc-C
4	Ujama khaton AAbdul rehman khan	FYBA
5	Tiwari shivangi saroj	TY B.COM
6	Pal avinash awadesh	Fybcom
7	Yadav Avnish Basantlal	FY-BSC CS
8	Khatik Reena Pannalal	FYBA
9	Jaiswal Amar Raju	FYBOM DIV A
10	Negi Kanan Ranjeet	FYBSC IT
11	Arif Khan	FY CS
12	Soni Vishwakarma	TYBCOM
13	Khan Zarin Shahid	Sybcom



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15	Singh anjali babulal	Fybms
16	Tiwari Adarsh Rajesh	TYBSc Statistics
17	Mohammed Sahil Mohammed Sadekin khan	SY BSc CS
18	Kurmi Nishanchala vijay	FYBA
19	Kokane Prathamesh Ramdas	Fybsc CS
20	Dabir Zain Nazir	TYBSC
21	Vishwakarma Pallavi Matbar	SYBA
22	Yadav Aristha Ashok	SYBSc CS
23	Vishwakarma Shubham Amarnath	SY-CS
24	Jaiswar Anjali Ramchadra	SYBSC CS
25	GUPTA ABHISHEK UMASHANKAR	SYBSC CS
26	Yadav Durgesh Gangadhari	SYBSc IT
27	jaiswal shivam rakeshchand	SYBsc CS
28	Harijan Vinay Pyarelal	FYBA



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30	Meer Safiya Jaseem Alam	FYBAF
31	Prajapati Sweksha Rajesh	TYBSC Mathematics
32	KUMAWAT YOGESH NAVRANGLAL	Fybcom
33	Shaikh Sharmin Haider	TYBCom
34	Mishra aman vijay shanker	SYBCOM
35	Mishra Anushka Niraj	FYBSC IT
36	YADAV VINITA VIJAYBAHADUR	FYBA
37	Shaikh Khushi Ravish	SYBMS
38	Khandare Pallavi Hemant	SYBScCS
39	Maurya Pritanjali Satish	Sybcom
40	Prajapati Jayhind Gullu	SYCS
41	Vishwakarma Chirag Nanhakuram	FYBSC
42	Dabas Arun	SYBsc CS
43	Chourasiya Nilesh Krishnadeo	SYBSC CS
44	Koyande Aditi Suhas	FYBA C




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45	Kahar Saurabh Ramesh	SY BSC IT
46	Gupta Ajay Dewanand	SY -CS
47	Dubey Anjali Rudramani	TYBCOM
48	Wagh Sakshi Sanjay	SYBSC CS
49	Yadav pooja rajendra	Fyba
50	Sanjeev kumar	FyBsc-Biology
51	Shirsat Ritesh Prabhakar	T.Y.Bsc(STATISTICS)
52	Yadav Priyanshi RameshChandra	TYBsc statistics
53	Saw komal Kumari	Syba
54	YADAV DEVRAJ DHARMENDRA KUMAR	SYBSc / Mathematics and Statistics
55	Shinde Chinmay Sanjay	SYBSc Mathematics and Statistics
56	Siddiqui Mubashera Ansar Ahmed	TYBSc Mathematics
57	SINGH SHAILESH RAJESH	FYBSC ststistics
58	Dhole prajakta rajendra	Sybsc cs
59	TRIPATHI SAURABH SHIVPRAKASH	TYBSC ststistics




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Email: rjcollege@rjcollege.edu.in

Tel No: +91 22 25151763

Fax No: +91 22 25150957

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60	Gupta anjali subedar	FYBA
61	Gupta Dheeraj Deviprasad	Bsc sycs
62	Varma Anjali Ashok Kumar	SY CS
63	Dhanawade Kiran Sharad	FYBSC-CS
64	Dubey Dewashya Mahendranath	TYBSc statistics
65	Shetty Pranay Prahlad	SYBSC CS
66	CHATURVEDI PRATIKSHA RAJESH	SYBsc CS
67	Maurya Divesh Kanchan kumar	SYBsc CS
68	Nikam komal santosh	Sybcom
69	Pal Shweta Dinesh	Sybsc CS
70	Prajapati laxmina Jamuna	Fybcom (B)
71	Gupta Durgavati Brahmprasad	SYBSC-CS
72	ANSARI MOHD SUFIYAN SANAULLAH	TYBSC
73	Sawant Tanvi Santosh	SYBSC Computer Science
74	Maurya Aanchal Surendra	Sybsc cs




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75	Ansari Rehmat Ali Jalim	SYBSC-CS
76	Khan Dilshad Iliyas	SYBSC CS
77	SHARMA KUSUM PINGALPRASAD	TY.BCOM
78	Surve Maseera Farooque	Sybsc
79	Sharma Ankita	SYBSCIT
80	Gupta Sandip Rajendra	SYBSC-CS
81	Gupta Karishma Krushna	FYBcom
82	Gupta Pawan Vakil	FYB.com
83	KUMAVAT BHAVIKA MOHANLAL	Sybcom
84	Mishra Umang Gajanand	SYCS
85	KHAN MANTASHA RIZWAN	SYBCOM
86	Kumbhar Prathmesh Santosh	SYBSC CS
87	Gupta Reeta Dinesh	SYBSCCS
88	Suryawanshi sapna shantilal	TYIT
89	Bhalerao Trupti Nitin	SYBSC
90	Singh Shruti Ajay Kumar	SYBSC CS



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91	GUPTA SAKSHI RAJKUMAR	SYCS
92	Maurya Swati Jitendra	SYBSC CS
93	Nalawade Swarali Rajesh	SYCS
94	Tiwari Beauty Sanjay	SyCs
95	Maurya Mamta Rambilash	SYCS
96	Mishra Satyam Jaiprakash	TYBSC Statistics
97	Chauhan Siddhant Singh Ravi	SYBSC CS
98	Paswan Roma Rajendra	Sybcom
99	Mishra Nandini Shreedhar	SYCS
100	Yadav Priya Umashankar	SYBSC CS
101	Gupta Adarsh Chandraprakash	SYBSc CS
102	Gupta Bhumika Ramkomal	SyCS
103	Manisha Ramesh singh	FYBCOM
104	Singh Sakshi Anilkumar	SYBSc CS



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Affiliated to UNIVERSITY OF MUMBAI II NAAC Re-Accredited 'A' Grade (CGPA: 3.50)

CERTIFICATE



Hindi Vidya Prachar Samiti's

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Certificate of Completion

This is to certify that

AVINASH AWADESH PAL URMILA

of Class FYBCOM Roll No. 1

has successfully completed the Value-Added Course in Emerging Technologies In Computer Science organized by
Department of Computer Science and conducted from 21/04/2022-30/04/2022

COURSE CODE
RJSUGCS03



Issue Date: 24 June, 2022



Dr. Himanshu Dawda
Principal

CERTIFICATE ID: RIC-VAC-202122-0930




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