



# 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)

## Department of Computer Science

### Notice

Date: Mar 22, 2023

The Department of Computer science organizing Certificate Course "Emerging Technologies in Computer Science" for all FY students of RJ College from 15<sup>th</sup> April 2023 to 26<sup>th</sup> April 2023.

This course includes following Programming Languages:

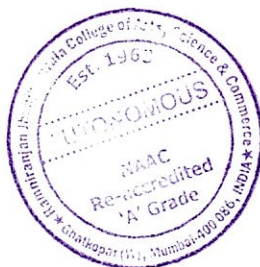
1. R Programming
2. IoT and Arduino
3. Robotics
4. Computer Graphics

Students have to register on <https://forms.gle/cswYvj1By4Ym2Qxq5> (open till 6th April, 2023)

**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



  
PRINCIPAL  
RAMNIRANJAN JHUNJHUNWALA COLLEGE  
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## VALUE ADDED COURSE

### Short Term Training Program on "Value Added Course"

#### Department of Computer Science

#### Report

**Date :** April 15,2023 To April 26,2023

**Time :** 9:00 am To 12:00 pm

**Students Benefited:** FY students from all streams of RJ College

**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:** 272

**Number of Students completing the course in the year:** 101

**YouTube Link:**

Topic	YouTube Link
R Programming	<a href="https://youtu.be/HUYIF2n5Lfs">https://youtu.be/HUYIF2n5Lfs</a>
IOT & Arduino	<a href="https://youtu.be/uzqDjeK8s74">https://youtu.be/uzqDjeK8s74</a>
Robotics	<a href="https://youtu.be/bDGkquHW1gQ">https://youtu.be/bDGkquHW1gQ</a>
Computer Graphics	<a href="https://youtu.be/gP7WNtk81lc">https://youtu.be/gP7WNtk81lc</a>

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.





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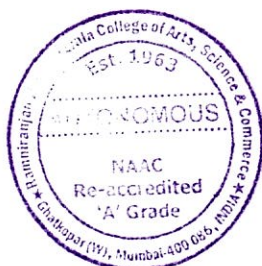
The Duration of value added course is 30 hours out of which 26 online sessions are conducted and 4 sessions assigned for evaluation purposes.

Total 272 Students enrolled in the course out of which 101 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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## BROCHRUE




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**DEPARTMENT OF COMPUTER SCIENCE**  
Organizes  
**Value Added Course**

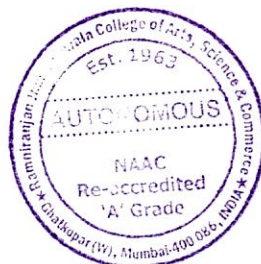
**"Emerging Technologies in Computer Science"**


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

 **15<sup>th</sup> April 2023 To 26<sup>th</sup> April 2023**

Registration Link: <https://forms.gle/cswYvj1By4Ym>





  
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BROCHURE



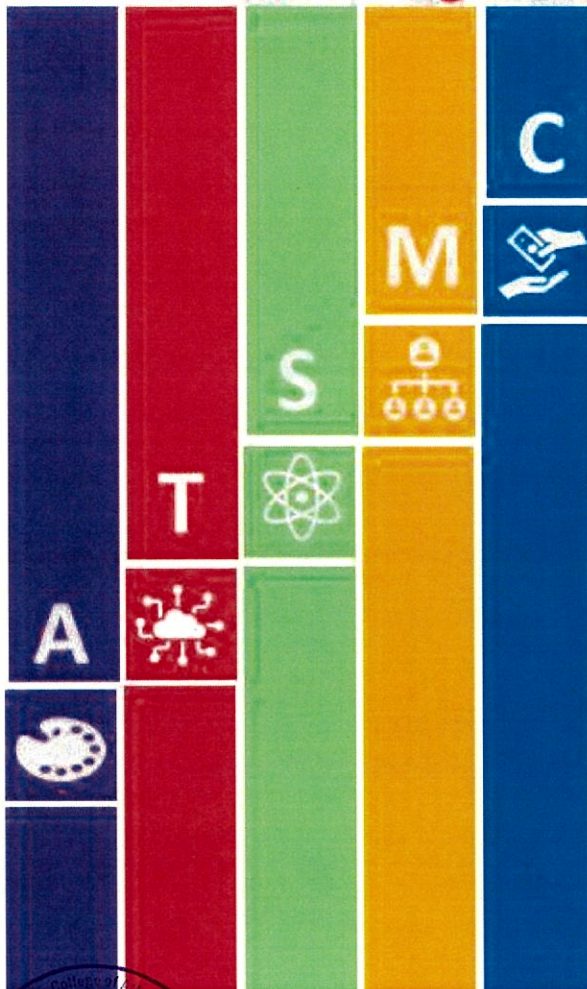
AY 2020 Onwards

## Hindi Vidya Prachar Samiti's RAMNIRANJAN JHUNJHUNWALA COLLEGE (AUTONOMOUS)

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NAAC Accredited 'A GRADE' with CGPA 3.50

### Knowledge is all Ambrosia



### CERTIFICATE COURSE IN

### EMERGING TECHNOLOGIES IN COMPUTER SCIENCE

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[rjcollege@rjcollege.edu.in](mailto:rjcollege@rjcollege.edu.in)

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## CERTIFICATE COURSE IN EMERGING TECHNOLOGIES IN COMPUTER



Hindi Vidya Prachar Samiti was incepted on the auspicious day of Shri Krishna Janmashtami, 15th August 1938. A brain child of a visionary Late Shri Nandkishore Singh Jairamji, samiti was established with the objectives of catering to the educational needs of the Hindi speaking community. Ramniranjan Jhunjunwala College came into existence in 1963, enabling a larger section of the society to take advantage of the facilities provided for higher education.

From 1999-2000 the College has added a number of self-financing courses like B.M.S., B.B.I., B.Sc. in Computer Science, Information Technology, Biotechnology, M.Sc. in Computer Science, Biotechnology and Information Technology as well as add on courses, which further hone the special skills of the students.

The college has been reaccredited with 'A' Grade by NAAC in 2014 with a CGPA 3.50 and received the Best College Award (2007-2008) of the University of Mumbai. The College has been bestowed with IMC "Ramkrishna Bajaj Performance Excellence Trophy", 2010.

The Principal of the college was awarded "Best Teacher" by Government of Maharashtra in 2011.

Government of Maharashtra conferred the college with "JAAGAR JAANIVANCHA" (First in Mumbai Suburban- in 2013 and Second in Mumbai Suburban- in 2014) for safety of girls.

Course Code: **RJCSC03**

Duration: **30** hours

Credits: **02**

## COURSE OUTCOME

- To learn about R Programming and how to use R for effective data analysis.
- To understand the basics of arduino board and its components.
- To understand the basics Robotics with AI and its components.
- Interpret the mathematical foundation of the concepts of computer graphics describe the fundamentals of animations.



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CERTIFICATE COURSE IN **EMERGING TECHNOLOGIES IN COMPUTER**



# COURSE OBJECTIVE

To understand the different Programming Languages.

- |                 |  |
|-----------------|--|
| <b>Unit I</b>   | <b>R Programming:</b> Introduction to R, R Installation, RStudio IDE, Radvantage and disadvantage, R Packages, List of R Packages, R Basic Syntax, R Data type, variable in R programming, R Keywords.   |
| <b>Unit II</b>  | <b>IOT and Arduino:</b> lot and Basics of Arduino, Arduino Board, Installation of IDE and Power Supply, Arduino programming, Input output Devices, Interfacing IO modules  |
| <b>Unit III</b> | <b>Robotics:</b> 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.   |
| <b>Unit IV</b>  | <b>Computer Graphics:</b> 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 |

**COURSE CONTENT**

English

## MEDIUM OF INSTRUCTION

## EVALUATION

Continuous evaluation theory and practical's (Virtual)



**PASSING 40**

**100 MARKS**

## WHO SHOULD DO IT?

For SY/TY BSC Computer Science students



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## Syllabus

<b>Course: III</b>	<b>Emerging Technologies In Computer Science</b> <b>Course Code: RJSUGCS03</b>
<b>Objective:</b> To understand the different Programming Languages.	
<b>Expected Learning Outcomes:</b> 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.	
<b>Unit-I</b>	<b>R Programming</b> 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.
<b>Unit-II</b>	<b>IOT and Arduino</b> IOT and Basics of Arduino, Arduino Board, Installation of IDE and Power Supply, Arduino programming, Input output Devices, Interfacing IO modules
<b>Unit-III</b>	<b>Robotics</b> 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.
<b>Unit-IV</b>	<b>Computer Graphics</b> 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. <b>Scan conversion-Digital Differential Analyzer(DDA) algorithm, Bradenham's Line drawing algorithm, Midpoint Circle drawing algorithm</b>



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## Time Table

Value Added Course Time Table (2022-2023)

Day	Date	Time	Topics
1	15/04/2023	9 am - 11 am	Arduino lot and Basics of Arduino, Arduino Board
		11am - 12 pm	Computer Graphics Overview of Computer Graphics, Computer graphics Applications and Software Description of some Graphics devices
		9 am - 11 am	Computer Graphics Input Devices for operator, Interaction, Active and Passive Graphics Devices, Display Technologies
2	17/04/2023	11am - 12 pm	Arduino Installation of IDE and Power Supply
		3pm - 4 pm	Assignment Arduino
		9 am - 11 am	Arduino programming, Input output Devices
3	18/04/2023	11am - 12 pm	Computer Graphics Cathode Ray Tube Basics, Colour CRT Raster Scan Basics, Raster and random scan display.
		9 am - 11 am	R Programming Introduction to R, R Installation, RStudio IDE, R advantage and disadvantage
4	19/04/2023	11am - 12 pm	Robotics What is a Robot?, Types of Robot Control, What is Robotics?
		3pm - 4 pm	Assignment Computer Graphics
		9 am - 11 am	Robotics Difference in Robot System and Other AI Program Applications of Robotics, Robot Components, Robot Locomotion
5	20/04/2023	11am - 12 pm	R Programming R Packages, List of R Packages, R Basic Syntax
		9 am - 11 am	R Programming R Data type, variable in R programming
6	21/04/2023	11am - 12 pm	Robotics Effectors and Actuators, Degree of freedom Locomotion
		3pm - 4 pm	Assignment R Programming
		9 am - 11 am	Manipulation, Sensors.
7	24/04/2023	11am - 12 pm	R Programming R Keywords
		9 am - 11 am	Computer Graphics Digital Differential Analyzer (DDA) algorithm, Bradenham's Line drawing algorithm, Midpoint Circle drawing algorithm
8	25/04/2023	11am - 12 pm	Interfacing IO modules
		3pm - 4 pm	Assignment Robotics
		9 am - 11 am	Evaluation
9	26/04/2023	9 am - 11 am	Evaluation



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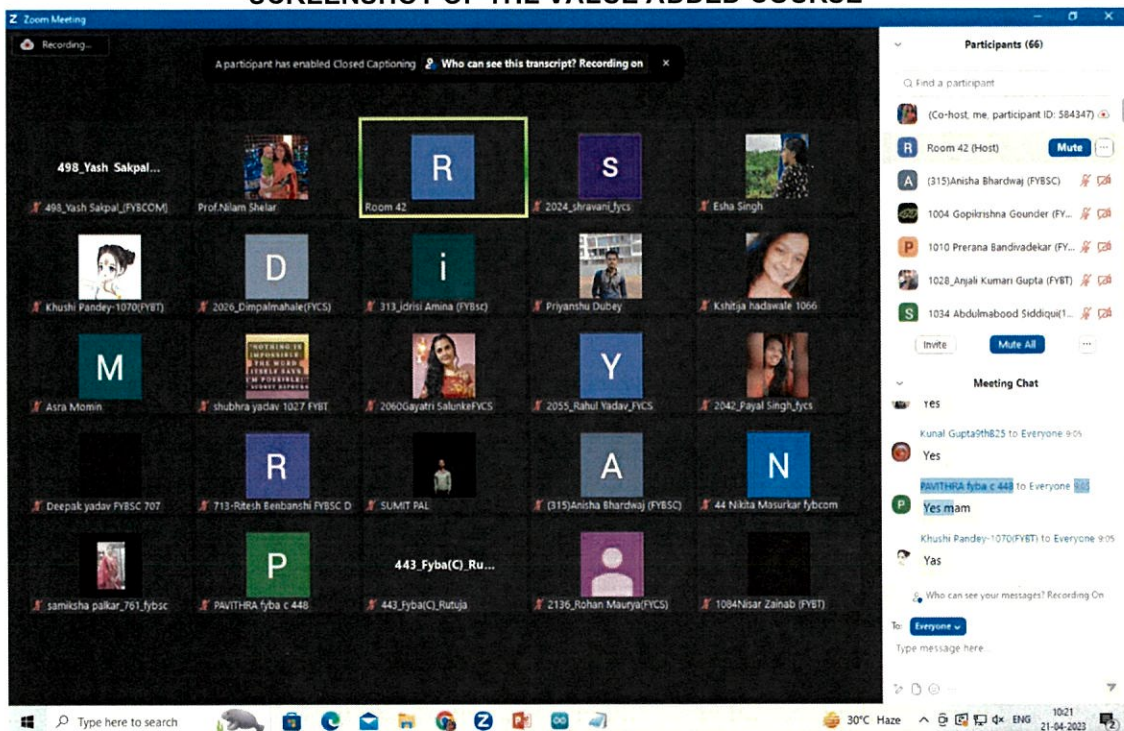
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## SCREENSHOT OF THE VALUE ADDED COURSE



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## List of Certified Participants

Sr. No	Name	Class	Roll No
1	Anjali Pandey	Bcom	8
2	Juhi vijayshankar tiwari	Fybcom	12
3	Nikita Ratnakant Masurkar	Fybcom commerce	44
4	Nikita nath	FYBA	63
5	Fakhra fatima	FYBA	65
6	Ankita pandey	FYBCOM	86
7	Bhumika jaiprakash Jaiswal	Fyba	91
8	Khushi Thakur Prasad Singh	FYBcom	91
9	Sonal u yadav	Fy bcom	97
10	Rehan NoorMohammad Pawaskar	FYBCOM	105
11	Shaikh Heena Mohammad ojar	FYBA	142
12	Yadav shivgovind Laljeet	Fybsc	207
13	Singh Anshi Sanjeev	Fybsc botany	214
14	Singh Akshata Subhash	FYBSC	230
15	Shwet Rajesh yadav	Fybsc	249
16	Pandey Prerana Santosh Kumar	Fy. Bsc ( science )	258
17	Khatun shifa naushad khan	FYBSC	301
18	Anjali vishwakarma	Fybsc	303
19	Idrisi Amina Khatoon Haji Shafique Ahmed	FYBsc	313
20	Ansari Ayesha Bano sirajuddin	Fyba	314
21	Anisha Bhardwaj	Fybsc	315
22	Baig sarfraz ashfak	FyBsc	332
23	Chauhan Anjali Pushpendra	Fybsc	339



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

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

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

24	Shaikh Sana Abdul Qadir	FYBSC science	344
25	Sneha Sharma	Fyba	345
26	Khan Mohd.altamas Ramzan Ali	Fybsc	369
27	Rohit chauhan	Fybsc	371
28	Ayush Satish Kumar Gupta	Fybsc cpz	388
29	Srushti Anil Bhogaonkar	FYBA-C	401
30	Yadav Jatin Jagdish	Fybcom	410
31	Nisha Banesh kumar yadav	FYBA/ arts	413
32	Rutuja Suhas Bichkar	Fyba	443
33	Pavithra Reddy	FYBA	448
34	Tanishk Chauhan	FyBcom	465
35	Yash Nathuram Sakpal	FYBCOM	498
36	Harshal Advilkar	Fyba	532
37	Khan Zeenat Fatima	Commerce	639
38	Deepak Basantlal Yadav	FYBSC	707
39	Tiwari Asmita Anil	FYBSC/science	710
40	Ritesh Dinesh Benbanshi	FYBSC D	713
41	Reshma Raees Siddiqui	PMS	719
42	Rushabh Rajendra Gole	FYBSC-D	729
43	VIVEK RAJESH MISHRA	FYBSc	731
44	Dubey Khushi Rajkumar	FYBSC	733
45	Esha Singh	Fybsc-D	735
46	Iqra Shakil Shaikh	FYBSC-D	740
47	Suraj Rakesh Shukla	FYBSC	745
48	Priyanshu ajitkumar dubey	Fybsc/stats	756



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49	Sumit Shish Pal	Fybsc	759
50	Samiksha balasaheb palkar	Fybsc	761
51	Mohd Sameer Mohd Shafique Chaudhary	FY.BSc	774
52	Satyam Vishwakarma	FY B.Sc	781
53	Ashtavinayak Shrwan Kumar Pathak	FYBSC -D	788
54	Gopikrishna Sekar Gounder	FYBT	1004
55	PRERANA SUSHIL BANDIVADEKAR	FYBSC BIOTECHNOLOGY	1010
56	Priyanshi Jaiswal	Biotechnology	1019
57	SHUBHRA SANTOSH KUMAR YADAV	FY BSC BT	1027
58	Anjali kumari Gupta	FYBT	1028
59	Anjali Gupta	FYBT	1033
60	Muskan Rakesh Mishra	FybscBT	1045
61	Kshitija Devanand Lavande	FYBSC BT	1056
62	Shaikh Mohammed Azhan Ibrahim	FYBSc Biotechnology	1059
63	Vaishali Santosh Zore	FYBT	1060
64	Kshitija laxman hadawale	FYBsc biotechnology	1066
65	Khushi pandey	FYBT	1070
66	Sakshi Chandramohan Tiwari	FYBT	1076
67	Udita Tripathi	FYBSC -BT	1081
68	ANSHIKA AMIT GHAVRI	Fy/ biotechnology	1082
69	Priyanshu indradev prajapati	Science	1083
70	NisarZainab	FYBT	1084
71	Megha Rajesh jaiswar	FYBSc-BIOTECHNOLOGY	1086
72	Neha prabhu gorde	Fycs	2007
73	Nitish saroj Kumar Sharma	Fycs	2013



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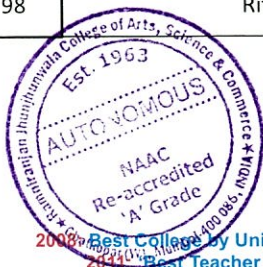
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74	Samika G Yadav	FYCS/F	2017
75	Rudrapratap Shivkumar Shukla	Fycs	2018
76	Rajiv Ranjeet Sharma	Fy cs	2019
77	Shravani Dhargalkar	Fycs	2024
78	Krutika Chandrakant Jumare	FYCS	2025
79	Dimpal Sandeep mahale	FYCS	2026
80	Shweta Yadav	Fybsc cs	2027
81	Ummeaiman Abizar Arsiwala	FYCS	2028
82	Gargee Pawar	FYCS	2038
83	Bhavesh Babulal Meghwal	FYCS	2041
84	Payal Singh	FYCS	2042
85	Khan sameer	Fycs	2044
86	Krishna Dubey	FYCD	2051
87	Aman Tripathi	fycs	2056
88	Gayatri Kishor Salunke	FYCS	2060
89	Asra Nasir Momin	FYCS	2061
90	Singh Kabir Ramu	Fycs	2068
91	Riddhi Girijesh Tiwari	FyCS	2069
92	Sejal jaishkumar panday	FYCS	2079
93	Shivam Yadav	Fycs	2089
94	sumit sharma	FY CS	2106
95	Tisha ramkomal gupta	FyCS	2108
96	Ashish Vishwajeet Gupta	FYCS	2116
97	Piyush Ashok shukla	Fybsc cs	2122
98	Ritikdubey	Fycs	2128



*(Signature)*

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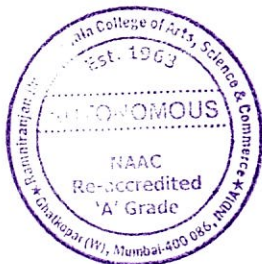
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99	Sameer Singh	FY(BSC-CS)	2130
100	Rohan Suresh Maurya	FYCS	2136
101	Akash manager Tiwari	FYBSC-CS	204361171



  
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## CERTIFICATES



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



## Certificate of Completion

This is to certify that

*Fakhra Fatima*

Of FYBA and Roll No 65

has successfully completed the Value-Added Course in **Emerging Technologies in Computer Science** organized by **Department of Computer Science** from 15<sup>th</sup> April 2023 to 26<sup>th</sup> April 2023.

Course Code  
RJCSC03

Issue Date: 29 April, 2023



*[Signature]*  
Dr. Himanshu Dawda  
Principal



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



## Certificate of Completion

This is to certify that

*Yadav Shingorind*

Of FYBSC and Roll No 207

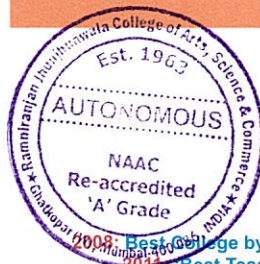
has successfully completed the Value-Added Course in **Emerging Technologies in Computer Science** organized by **Department of Computer Science** from 15<sup>th</sup> April 2023 to 26<sup>th</sup> April 2023.

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Dr. Himanshu Dawda  
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*[Signature]*  
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