



# R. J. COLLEGE of Arts, Science & Commerce (Empowered 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](http://www.rjcollege.edu.in) • Email : [rjcollege@rjcollege.edu.in](mailto:rjcollege@rjcollege.edu.in) • Tel No. + 91 22 25151763

*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: 3.10)**

## NOTICE

Hindi Vidya Prachar Samiti's  
**Ramniranjan Jhunjhunwala College of Arts, Science & Commerce**  
(Autonomous College)



### Department of IT

in association with

**Perpetual Gravity Labs Pvt. Ltd.**

Organizes A Value Added Course in

## **IOT Application Development**

The Course will include development  
of two end to end IOT projects.

**Date: April 4, 2024 – April 18, 2024**

**Time: 9:00 AM – 12:15 PM**

**Venue: IT Lab # 1**

**Prerequisites: Basic Programming skills needed**

Click to register: <https://docs.google.com/forms/d/1LlydG6Fm2ez-QHdq-uYjRTJ7XdhVdbISS5cs0fxMR40/edit?usp=drivesdk>

In-Charge



Principal

**RAMNIRANJAN JHUNJHUNWALA COLLEGE**  
OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)  
Ghatkopar (W), Mumbai-400 086, Maharashtra, India

**2019: Star College Status by DBT**

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**2011: 'Best Teacher Award' by Government of Maharashtra 2013: DST-FIST 2014: DBT STAR College**

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## BROCHURE



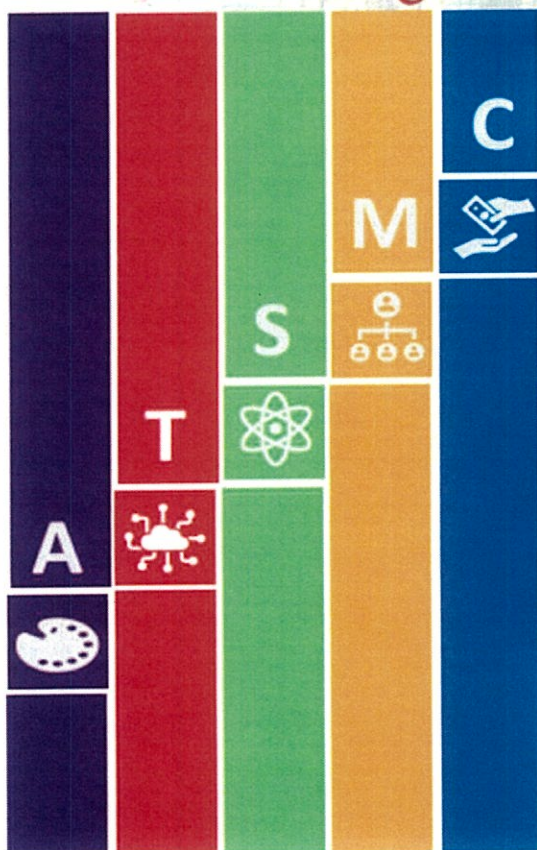
Hindi Vidya Prachar Samiti's

**RAMNIRANJAN JHUNJHUNWALA COLLEGE (AUTONOMOUS)**

(Also known as R. J. College of Arts, Science & Commerce as per UGC Notification)

**Affiliated to UNIVERSITY OF MUMBAI II Recognized by UGC under 2f & 12B  
NAAC Accredited 'A GRADE' with CGPA 3.50**

### Knowledge is all Ambrosia



**CERTIFICATE  
COURSE IN**

**IOT  
APPLICATION  
DEVELOPMENT**

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## CERTIFICATE COURSE IN

## IOT APPLICATION DEVELOPMENT



### ABOUT US

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 Jhunjhunwala 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 reaccruited 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.

**C**ourse Code: **RJITC08**

**D**uration: **30** hours

**C**redits: **02**

### ABOUT COURSE

The course aims to give project based learning experience in building IOT projects.



*(Signature)*

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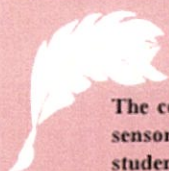
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CERTIFICATE COURSE IN

**IOT APPLICATION DEVELOPMENT**



## COURSE OBJECTIVE

The course will provide knowledge on basic building blocks of IOT applications like sensors, actuators, SOC's like RPi, Arduino, NodeMCU etc. The course will enable the student to develop their own IOT applications from conceptualization to implementation.

## COURSE OUTCOME

After completion of the course students will be able to -

- Understand basic concepts of IOT technology.
- Understanding of four core components required to build IOT applications
  - Sensor/ Devices
  - Connectivity / Networking
  - Data Processing
  - UI
- Develop one complete IOT solution from design to implementation using Real Time data and RTOS.

## COURSE CONTENT

Module	Topics	Hours
Module 1	<b>Introduction to Hardware Components :</b> Basic concept of IOT, Stakeholders, components, hardware used SOC –Arduino, NodeMCU, Rpi Sensors – PIR, temperature, LDR , Camera, Fingerprint reader, RFID reader, moisture & humidity sensor etc Actuators – display devices – LCD, Buzzers, Motors, Relay etc Networking / Connectivity – Ethernet, Bluetooth, WiFi etc. Concept of cloud based data connectivity	4 Hrs
Module 2	<b>Introduction to software Components :</b> Mobile App development using latest trending technologies like android studio, MIT app inventor, python programming with opencv library etc. Embedded C- Programming Arduino IDE, Raspberry Pi OS	4 Hrs



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COURSE CONTENT

**CERTIFICATE COURSE IN IOT APPLICATION DEVELOPMENT**

**Module 3** Introduction to Project Lifecycle – Prototype to Implementation. Demonstration to two different working projects with important concepts. Different project ideas based on similar concepts. 4 Hrs

**Module 4** Hands on project development. 18 Hrs

Select one of the following project themes or create your own project theme.

Project 1: Smart Soil irrigation system: IOT application using

Project 2: App based remote control car

Project 3: Finger print based locks

English

## MEDIUM OF INSTRUCTION

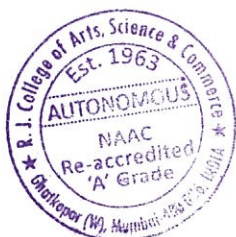
## EVALUATION

Mode of Assessment	Maximum Marks (50)	Minimum Marks (20)
Project Evaluation	20	8
MCQ Exam	30	12

**Passing Marks: 40%**

## WHO SHOULD DO IT?

The learner should have knowledge of Basic Programming concepts.



*(Signature)*

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## Department of Information Technology

### Value Added Course on IoT Application Development Schedule

Course Code: RJITC08

Year of Offering: 2023-2024 Duration: 04-04-2024 to 18-04-2024

Day	Date	Time	Module	Topic	Faculty Member	Duration
Thursday	4/4/2024	9:00 am - 10:30 am	I	Introduction to hardware components	Dr. Yugandhara More	1.5 Hrs
		10:45 am - 12:15 pm		Introduction to Arduino and Raspberry Pi	Archana Bhide	1.5 Hrs
Friday	5/4/2024	9:00 am - 11:00 am	II	MIT APP Inventor	Jeba Roselet	2 Hrs
		11:15 am - 12:15 pm		Python Programming with open CV	Punam Sindhu	1 Hr
Saturday	6/4/2024	9:00 am - 11:00 am	II	Python Programming with open CV	Punam Sindhu	2 Hrs
		11:15 am - 12:15 pm		Mobile App development using android studio	Radhika Kapoor	1 Hr
Monday	8/4/2024	9:00 am - 10:30 am	III	Project Lifecycle	Prachi Surve	1.5 Hrs
		10:45 am - 12:15 pm		Introduction to Raspberry Pi	Bushra Shaikh	1.5 Hrs
Wednesday	10/4/2024	9:00 am - 12:00 pm	IV	Project Work	Nagendra Singh	3 Hrs
Friday	12/4/2024	9:00 am - 12:00 pm		Project Work	Nagendra Singh	3 Hrs
Saturday	13/4/2024	9:00 am - 12:00 pm		Project Work	Nagendra Singh	3 Hrs
Monday	15/4/2024	9:00 am - 12:00 pm		Project Work	Nagendra Singh	3 Hrs
Tuesday	16/4/2024	9:00 am - 12:00 pm		Project Work	Nagendra Singh	3 Hrs
Thursday	18/4/2024	9:00 am - 12:00 pm		Project Work	Nagendra Singh	3 Hrs



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## Department of Information Technology

### Report On : Value Added Course on “IoT Application Development”

**Title: IoT Application Development**

**Course Code: RJITC08**

**Year of Offering: 2023-2024**

**Organized by: Department of IT**

**Duration: 04-04-2024 to 18-04-2024**

**Number of students enrolled in the year: 82**

**Number of Students successfully completed the course in the year : 40**

#### **Resource Persons:**

Mr. Nagendrapratap Singh ( Perpetual Gravity Labs Pvt.Ltd.)

Prof. Archana Bhide

Prof. Jeba Roselet

Prof. Prachi Surve

Prof. Punam Sindhu

Prof.. Radhika Kapoor

Dr. Yugandhara More

Prof. Bushra Shaikh

**Venue: IT Lab1**

**Participants: Students from all streams**

The Department of IT in association with Perpetual Gravity Labs Pvt Ltd Organized a Value Added Course on “IoT Application Development” from April 04,2024 to April 18,2024. The course was conducted to give through knowledge of IOT and make them develop the application. The course covered the basic topics such as Introduction to hardware components, Introduction to Arduino and Raspberry Pi, MIT APP Inventor, Python Programming with open CV, Mobile App development using Android Studio, Project Lifecycle of IoT Projects and Project Demonstration which comes also under the umbrella of IoT. The Course included the development of one end to end IoT projects after the course completion 40 students out of 82 registered participants completed the course successfully.

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**Principal**

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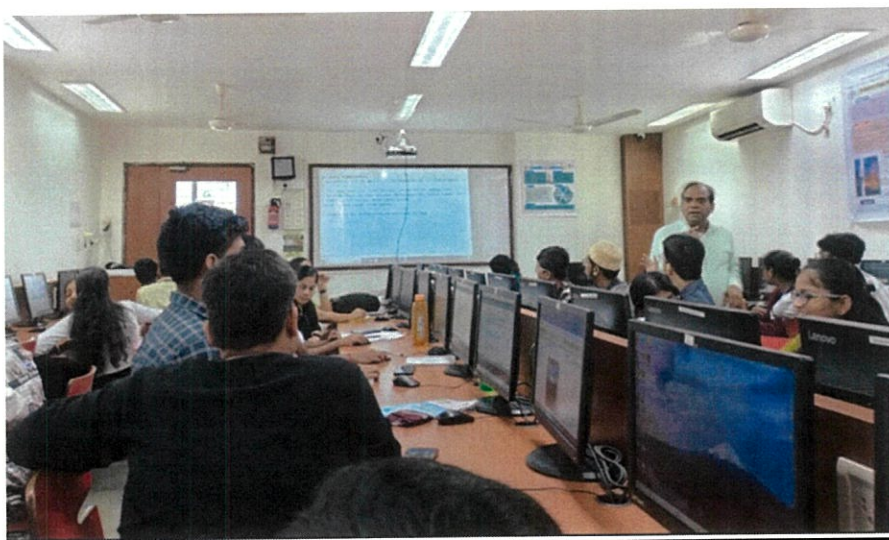
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**Photograph: Mr. Nagendrapratap Singh is giving the Hands on session for Value Added Course on IoT Application Development**



**Photograph: Students performing the practical in Value Added Course on IoT Application Development**





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## Value Added Course on “IoT Application Development”

### Registered Students List

SR NO.	NAME	ROLL NO	CLASS
1	Khan Jannat Nizamuddin Fauziya	6286	SYIT
2	Saini Anamaika Sujit Chhaya	6297	SYIT
3	Chauhan Pravin Harendra Usha	6227	SYIT
4	Jaiswal Shubham Rajkumar Kiran	6243	SYIT
5	Ranjvan Rohit Vasant Nanda	6275	SYIT
6	Ghorpade Ananya Vilas Mayuri	6314	SYIT
7	bansode sumit santosh sunita	6276	SYIT
8	Gaikwad Sumit Dilip Panchashila	6202	SYIT
9	Prajapati Akash Virendra Renu	5056	FYCS
10	Yadav Ankit Virendra Usha	5102	FYCS
11	Tambuwalla Ebrahim Murtuza Mariyam	5008	FYCS
12	Sumaiya Khan Habibur rehman Shabnam	6310	SYIT
13	Agrahari Anjali Promod Anju	5059	FYCS
14	Gupta Raju Vinod Sarita Devi	6232	SYIT
15	Singh Anshika Rajkumar Sadhana	6313	SYIT
16	Acharya Rahul Kanhu Sapna	5338	SYCS
17	Bairi Dukhisyam Sarathi Janaki	5049	FYCS
18	Shukla Aaditya Arvind Kumar Geeta	5039	FYCS
19	Patole Sejal Santosh Vijaya	5361	SYCS
20	Yadav Shivam Shatrughan Yadav Taradevi	5381	SYCS



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SR NO.	NAME	ROLL NO	CLASS
21	Rao Deepak Ranapratap Pappi devi	5055	FYCS
22	Yadav Abhishek Ramchandra Seema	5116	FYCS
23	Shaikh Sahil Abdulla Jinnatara	5024	FYCS
24	Malik Sohaib Akhlaque Kaniza	5125	FYCS
25	Sharma Kiran Kanhaiyalal Anita	5090	FYCS
26	Singh Abhay Dhiraj Singh	6269	SYIT
27	Kheriwala Mustansir Saifuddin Nisrin	5092	FYCS
28	Yadav Rohit Rakesh Bindu	5359	SYCS
29	Gudhekar Sarthak Shashank Samita	5048	FYCS
30	Arya Singh Anand Neelam	5303	SYCS
31	Shaikh Dildar Said Muhammed Naseema k	5144	FYCS
32	Mishra Aakanksha Sunil Sandhya	5315	SYCS
33	Singh Monika Vinod Manili	5054	FYCS
34	Yadav Virendra Yogendra Mira	6231	SYIT
35	Mourya Yash Rajesh Anita	6210	SYIT
36	Pal Shubham Nebulchand Manjudevi	6277	SYIT
37	Sayed Ramsha Khalil Shakila	6201	SYIT
38	Rajbhar Akash Ramvijay Reena	5121	FYCS
39	Indalkar Suyash Dnyaneshwar Manisha	6226	SYIT
40	Singh Shreya Dileep Sadhana	6253	SYIT

SR NO.	NAME	ROLL NO	CLASS
41	Raza Sayed Ahmed Mohd Nikhat Fatima	5109	FYCS
42	Choudhary Govinda Kashinath Ranjanadev	6240	SYIT
43	Yadav Shubham Virendra Sangeeta	6215	SYIT
44	Haldankar Soham Shivram Shivani	5141	FYCS
45	Kori Sandip Ghanshyam Shivkumari	6218	SYIT
46	Shukla Kajal Chandrashekhar Pratibha	6252	SYIT
47	Pathak Adarsh Bindra Shaila	6301	SYIT
48	Yadav Kashish Kamlesh Suman	5053	FYCS
49	Gupta Aditya Sadanand Anita	6220	SYIT
50	Yadav Shreeram Birendra Kumar Nirmala	5304	SYCS
51	Singh Ravi RamSarikh Chanda	5388	SYCS
52	Kumar Raushan Mahendra Ray Gauri Devi	5009	FYCS
53	Yadav Ankit Bharatlal Nirmala	6279	SYIT
54	Gupta Satyam Abhayraj Gupta Geeta Gupta	6267	SYIT
55	Singh Payal Gopal Poonam	5344	SYCS
56	Paswan Aman Rajesh Paswan Reeta devi	5038	FYCS
57	Yedge Aditi Babu Sushama	5383	SYCS
58	Gupta Aditya Sarvesh Savita	5061	FYCS
59	Mithbavkar Vedika Santosh Pratibha	6292	SYIT



PRINCIPAL

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**Affiliated to UNIVERSITY OF MUMBAI II NAAC Re-Accredited 'A' Grade (CGPA: 3.10)**

## Value Added Course on “IoT Application Development”

### List of students who have completed the course

Certificate ID	Registration No.	Student Name	Class	Roll No
1	RIOT003	CHAUHAN PRAVIN HARENDRA	SYIT	6227
2	RIOT006	GHORPADE ANANYA VILAS	SYIT.	6314
3	RIOT007	BANSODE SUMIT SANTOSH	SYIT	6276
4	RIOT008	GAIKWAD SUMIT DILIP	SYIT	6202
5	RIOT011	TAMBUWALA EBRAHIM MURTUZA	FYCS	5008
6	RIOT013	AGRAHARI ANJALI PROMOD	FYCS	5059
7	RIOT015	SINGH ANSHIKA RAJKUMAR	SYIT	6313
8	RIOT016	ACHARYA RAHUL KANHU	SYCS	5338
9	RIOT017	BAIRI DUKHISYAM SARATHI	FYCS	5049
10	RIOT019	PATOLE SEJAL SANTOSH	SYCS	5361
11	RIOT020	YADAV SHIVAM SHATRUGHAN YADAV	SYCS	5381
12	RIOT021	RAO DEEPAK RANAPRATAP	FYCS	5055
13	RIOT022	YADAV ABHISHEK RAMCHANDRA	FYCS	5116
14	RIOT023	SHAIKH SAHIL ABDULLA	FYCS	5024
15	RIOT025	SHARMA KIRAN KANHAIYALAL	FYCS	5090
16	RIOT026	SINGH ABHAY DHIRAJ	SYIT	6269
17	RIOT029	GUDHEKAR SARTHA SHASHANK	FYCS	5048
18	RIOT035	MOURYA YASH RAJESH	SYIT	6210
19	RIOT039	INDALKAR SUYASH DNYANESHWAR	SYIT	6226
20	RIOT041	RAZA SAYED AHMED MOHD	FYCS	5109
21	RIOT046	SHUKLA KAJAL CHANDRASHEKHAR	SY IT	6252
22	RIOT050	YADAV SHREERAM BIRENDRA KUMAR	SYCS	5304
23	RIOT052	KUMAR RAUSHAN MAHENDRA RAY	FYCS	5009
24	RIOT053	YADAV ANKIT BHARATLAL	SY IT	6279
25	RIOT055	SINGH PAYAL GOPAL	SYCS	5344
26	RIOT057	YEDGE ADITI BABU	SYCS	5383
27	RIOT058	GUPTA ADITYA SARVESH	FYCS	5061



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**2017: ISO 45001:2018 2018: ISO 50001:2015 2018: ISO 26001:2017 2018: ISO 14001:2015 2018: ISO 9001:2015 2018: ISO 27001:2013**





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28	RIOT059	MITHBAVKAR VEDIKA SANTOSH	SY IT	6292
29	RIOT063	PAL SUMIT RAJENDRA GEETA	SYIT	6249
30	RIOT064	GUPTA VISHAL MADANCHAND	SYIT	6239
31	RIOT066	BENBANSE SURAJ MUNNALAL	SYIT	6258
32	RIOT068	RASTOGI ADITI SHAILESH MAMTA	SYIT	6271
33	RIOT073	KHAN HEENA HAROON NASREEN	FYIT	6039
34	RIOT074	SHAHU SAKSHI AASHARAM MUNNI	FYIT	6009
35	RIOT075	SAHU SANTOSH SARJU GYANDEVI	FYIT	6048
36	RIOT076	GUPTA RADHIKA RAMTEJ SUNITA	FYIT	6024
37	RIOT078	GEHLOT NIKHIL VINODKUMAR ASHA	SYIT	6251
38	RIOT080	VISHWAKARMA RAJ JAYPRAKASH PRITAM	FYIT	6001
39	RIOT081	SAHANI ADITYA AMARNATH DEVKALI	SYIT	6280
40	RIOT082	RADHA SUBHCHANDRA JHA	FYCS	5124



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## Certificate: Value Added Course on IoT Application Development

	<p>Hindi Vidya Prachar Samiti's <b>Ramniranjan Jhunjhunwala College of Arts, Science &amp; Commerce</b> (AUTONOMOUS) Opp. Ghatkopar railway station, Ghatkopar (W), Mumbai - 400086 Affiliated to UNIVERSITY OF MUMBAI</p>
<p align="center"><b>CERTIFICATE</b></p>	
<p>This is to certify that Mr. / Ms. <u>GAIKWAD SUMIT DILIP</u> of class <b>SYIT</b> has completed a value added course in <b>IoT Application Development (RJITC08)</b> of 30 hours conducted by Department of Information Technology from 4<sup>th</sup> April 2024 to 18<sup>th</sup> April 2024. He / She has satisfactorily completed the course with all given assignments / evaluation work.</p>	
 In-charge	 Principal
<p align="center">CERTIFICATE ID: 4_RJITC08_April2024</p>	

	<p>Hindi Vidya Prachar Samiti's <b>Ramniranjan Jhunjhunwala College of Arts, Science &amp; Commerce</b> (AUTONOMOUS) Opp. Ghatkopar railway station, Ghatkopar (W), Mumbai - 400086 Affiliated to UNIVERSITY OF MUMBAI</p>
<p align="center"><b>CERTIFICATE</b></p>	
<p>This is to certify that Mr. / Ms. <u>CHAUHAN PRAVIN HARENDRA</u> of class <b>SYIT</b> has completed a value added course in <b>IoT Application Development (RJITC08)</b> of 30 hours conducted by Department of Information Technology from 4<sup>th</sup> April 2024 to 18<sup>th</sup> April 2024. He / She has satisfactorily completed the course with all given assignments / evaluation work.</p>	
 In-charge	 Principal
<p align="center">CERTIFICATE ID: 1_RJITC08_April2024</p>	



  
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