

## IoT Application Development Value added course schedule 22-23

Ramniranjan Junjunwala College, Ghatkopar  
 Department of Information Technology  
 Schedule for Value Added Course in IOT (2022-23)

Day	Date	Time	Module	Topic	Faculty Member
Saturday	15/04/2023	9:00 am - 10:30 am	I	Introduction to hardware components	Anju Rai
		10:45 am - 12:15 pm		Introduction to Arduino and Raspberry Pi	Archana Bhide
Monday	17/04/2023	9:00 am - 11:00 am	II	MIT APP Inventor	Jeba Roselet
		11:15 am - 12:15 pm		Python Programming with open CV	Punam Sindhu
Tuesday	18/04/2024	9:00 am - 11:00 am	II	Python Programming with open CV	Punam Sindhu
		11:15 am - 12:15 pm		Mobile App development using android studio	Radhika Kapoor
Wednesday	19/04/2025	9:00 am - 10:30 am	III	Project Lifecycle	Prachi Surve
		10:45 am - 12:15 pm		Demonstration	Archana Bhide
Thursday	20/04/2026	9:00 am - 12:00 pm	IV	Project Work	Nagendra Singh
Friday	21/04/2027	9:00 am - 12:00 pm		Project Work	Nagendra Singh
Monday	24/04/2028	9:00 am - 12:00 pm		Project Work	Nagendra Singh
Tuesday	25/04/2029	9:00 am - 12:00 pm		Project Work	Nagendra Singh
Wednesday	26/04/2030	9:00 am - 12:00 pm		Project Work	Nagendra Singh
Thursday	27/04/2023	9:00 am - 12:00 pm		Project Work	Nagendra Singh

Exam MCQ format : 10 Marks, 40 Marks Project Demonstration

Certificate ID as follows according to year 2022-23

RJITC08\_2022-23\_SR.\_no

RJITC08 - in brochure

### Evaluation

30 Marks MCQ

20 Marks Project Demonstration

  
 In-Charge

  
 Principal

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



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Brochure

Hindi Vidya Prachar Samiti's  
Ramniranjan Jhunjunwala 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 15, 2023 – April 27, 2023  
Time : 9:00 AM – 12:00 PM

Venu: IT Lab # 1

Prerequisites: Basic Programming skills needed.

Click to register : <https://forms.gle/VRfvnF22iEK3L2Cs8>



  
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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)

## BROCHURE



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# Knowledge is all Ambrosia

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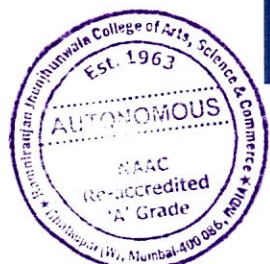
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## CERTIFICATE COURSE IN

## 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 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.

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

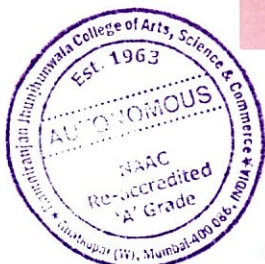
**D**uration: **30** hours

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

**ABOUT COURSE**

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





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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.

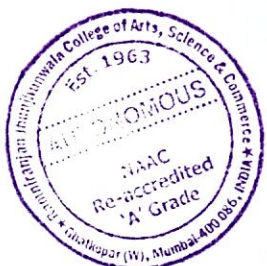
## COURSE OUTCOME

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



*(Signature)*  
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**IOT APPLICATION DEVELOPMENT**

COURSE CONTENT

**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**

The learner should have knowledge of Basic Programming concepts

**IT?**



*(Signature)*  
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## Department of Information Technology

### Report On : IoT Application Development

#### ( Value Added Course)

**Title: IoT Application Development**

**Course Code :RJITC08**

**Year of Offering :2022-2023**

**Organized by: Department of IT**

**Duration :15-04-2023 to 27-04-2023**

**Number of students enrolled in the year : 75**

**Number of Students successfully completed the course in the year : 44**

**Resource Person:**

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

**Prof. Archana Bhide**

**Prof. Jeba Roselet**

**Prof. Prachi Surve**

**Prof. Punam Sindhu**

**Prof. Anju Rai**

**Prof. Radhika Kapoor**

**Venue: IT Lab1**

**Participants: Students from all streams**

**Content of session:**

The Department of IT in association with Perpetual Gravity Labs Pvt Ltd Organized a Value Added Course "IoT Application Development" from April 15,2023 to April 27,2023. 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 comesalso under the umbrella of IoT .The Course included the development of one end to end IoT projects after the course completion 44 students out of 75 registered participants completed the course successfully.



**Principal**

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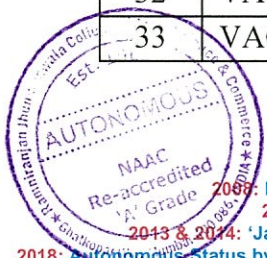
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## Value Added Course in IoT - List of students who completed the course

Sr.No.	Reg. No.	Student's Full Name	Class(FY/SY/TY)
1	VAC_IOT_01	ADALL DEEPAK CHENAYA	S. Y. B.Sc. I.T.
2	VAC_IOT_02	AHER MANAS HARSHAL	S. Y. B.Sc. C.S.
3	VAC_IOT_05	AROTE YASH BALMOHAN	S. Y. B.Sc. C.S.
4	VAC_IOT_06	BACHHE SIDDHI SUDHIR	S. Y. B.Sc. C.S.
5	VAC_IOT_07	CHAUHAN LAXMI SANTOSH	S. Y. B.Sc. I.T.
6	VAC_IOT_08	CHAUHAN SWATI RAMANATH	S. Y. B.Sc. C.S.
7	VAC_IOT_09	CHAURASIYA JULI AJAY	S. Y. B.Sc. C.S.
8	VAC_IOT_10	CHAURASIYA SATYAM SANTOSH	S. Y. B.Sc. C.S.
9	VAC_IOT_11	CHAVAN ROHAN SURESH	S. Y. B.Sc. I.T.
10	VAC_IOT_12	DUBEY PRATHAM BRIJENDRA	S. Y. B.Sc. I.T.
11	VAC_IOT_13	GUPTA BHUMIKA RAMKOMAL	T. Y. B.Sc. C.S.
12	VAC_IOT_14	GUPTA DHEERAJ	T. Y. B.Sc. C.S.
13	VAC_IOT_15	GUPTA REETA DINESH	T. Y. B.Sc. C.S.
14	VAC_IOT_16	GUPTA SAKSHI RAJKUMAR	T. Y. B.Sc. C.S.
15	VAC_IOT_17	GUPTA SNEHA ANIL KUMAR	S. Y. B.Sc. I.T.
16	VAC_IOT_18	GUPTA TISHA RAMKOMAL	F. Y. B.Sc. C.S.
17	VAC_IOT_19	JANA ANKIT ADHIR	S. Y. B.Sc. I.T.
18	VAC_IOT_21	KHAN ARIBA MOHAMMED HAKIM	S. Y. B.Sc. I.T.
19	VAC_IOT_25	KHUDE MANAS VINOD	S. Y. B.Sc. C.S.
20	VAC_IOT_27	KUNDU TANISHQ MANIK	S. Y. B.Sc. I.T.
21	VAC_IOT_28	MAHATO JAGRUTI KUMARI SHAIENDRA	S. Y. B.Sc. I.T.
22	VAC_IOT_29	MAURYA VIKAS RAJESH	S. Y. B.Sc. C.S.
23	VAC_IOT_30	MISHRA ANUSHKA NIRAJ	S. Y. B.Sc. I.T.
24	VAC_IOT_31	MOHANTY JAGADISH AJAY	S. Y. B.Sc. I.T.
25	VAC_IOT_33	MUDALIAR JAYALAXMI PERUMAL	S. Y. B.Sc. C.S.
26	VAC_IOT_34	NAIDU AMITKUMAR DANDAPANI	S. Y. B.Sc. I.T.
27	VAC_IOT_35	NEGI KANAN RANJEET	S. Y. B.Sc. I.T.
28	VAC_IOT_36	PADHI PRIYANKA NILANCHAL	S. Y. B.Sc. I.T.
29	VAC_IOT_37	PALKAR PRANALI PRAKASH	S. Y. B.Sc. I.T.
30	VAC_IOT_38	PANDEY NILESH	T. Y. B.Sc.
31	VAC_IOT_39	PANIGRAHI SANJANA SANTOSH	S. Y. B.Sc. I.T.
32	VAC_IOT_41	PRAJAPATI JAYHIND	T. Y. B.Sc. C.S.
33	VAC_IOT_43	RAJURIKAR SNEHA MADHAV	S. Y. B.Sc. C.S.



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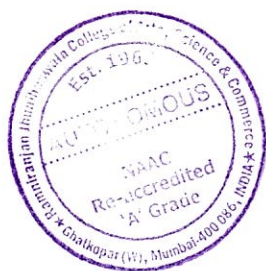
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35	VAC_IOT_45	SHUKLA VIKAS RAVINDRA	S. Y. B.Sc. I.T.
36	VAC_IOT_46	SINGH ANKITA PREMCHAND	S. Y. B.Sc. I.T.
37	VAC_IOT_50	TIWARI DIMPAL SANJAY	S. Y. B.Sc. C.S.
38	VAC_IOT_51	VARMA ANJALI	T. Y. B.Sc. C.S.
39	VAC_IOT_52	VISHWAKARMA ADITYA SHIVSHANKAR	S. Y. B.Sc. I.T.
40	VAC_IOT_53	VISHWAKARMA RISHTA KAUSHAL	S. Y. B.Sc. I.T.
41	VAC_IOT_54	VISHWAKARMA SHUBHAM AMARNATH	T. Y. B.Sc. C.S.
42	VAC_IOT_55	YADAV NITESH KAILASH SHEELA	S. Y. B.Sc. C.S.
43	VAC_IOT_56	YADAV SAKSHI MUNILAL	S. Y. B.Sc. I.T.
44	VAC_IOT_57	YADAV SATYAM KAMLESH	T. Y. B.Sc. C.S.



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## CERTIFICATE

This is to certify that Mr. / Ms. **ADALL DEEPAK CHENAYA** of class **S. Y. B.Sc. I.T.** has completed a Value-Added course in **IOT Application Development (RJITC08)** of 30 hours conducted by Department of Information Technology in association with Perpetual Gravity Labs Pvt. Ltd. from 15<sup>th</sup> April 2023 to 27<sup>th</sup> April 2023. He / She has satisfactorily completed the course with all given assignments / evaluation work.

In-charge

Principal

CERTIFICATE ID: RJITC08\_April\_2023\_01



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This is to certify that Mr. / Ms. **AHER MANAS HARSHAL** of class **S. Y. B.Sc. C.S.** has completed a Value-Added course in **IOT Application Development (RJITC08)** of 30 hours conducted by Department of Information Technology in association with Perpetual Gravity Labs Pvt. Ltd. from 15<sup>th</sup> April 2023 to 27<sup>th</sup> April 2023. He / She has satisfactorily completed the course with all given assignments / evaluation work.

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2019: Star College Status by DBT

2019: Best College by University of Mumbai 2010: IMC RBNQ Award 'Performance Excellence' for the year 2009

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

2013 & 2014: 'Jagar Jaanivancha Award' by Govt, of Maharashtra 2016: ISO 14001:2015 2016: ISO 9001:2015 2017: ISO 27001:2013

2018: Autonomous Status by University Grants Commission (No. F. 22-1/2018(AC) - 28.05.2018) & by University of Mumbai (No.Aff./ICD/18-19/440 - 08.06.2018)