



# 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)

12/07/2022

## NOTICE DEGREE COLLEGE

Department of Physics is organising a Value Added Course on Basics of Electronics, Astrophysics, Phyphox and GNUPlot from 16<sup>th</sup> July 2022 onwards. The duration of the course will be of 30 hours. Students will be awarded with 2 credits on successful completion of the course.

  
HoD Physics



  
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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## Brochure



HINDI VIDYA PRACHAR SAMITI'S

### RAMNIRANJAN JHUNJHUNWALA COLLEGE (AUTONOMOUS)

GHATKOPAR (W), MUMBAI 400 086

## DEPARTMENT OF PHYSICS

### VALUE ADDED COURSE 2022-23

**BASIC**  
ELECTRONICS

Astro + Physics

  
phyphox  
physical phone experiments

  
Gnuplot

**CERTIFICATE COURSE IN**

**BASICS OF ELECTRONICS, ASTROPHYSICS, PHYPHOX APP and GNUPlot Software**

**COURSE CODE : RJPHYC02    CREDITS : 02    DURATION : 30 hrs**  
**DATE OF COMMENCEMENT : JULY 16, 2022 Onwards**

**LEARNING OUTCOME**

*"Basics of Electronics, Astrophysics, Phyphox and GNUPlot Software"*

- Basics of Electronics** : Students will learn basic electronic components and their application in constructing a circuit. They will get hands-on training to construct the circuit on a breadboard.
- Astrophysics**: This module has been included to give the students a glimpse of Celestial co-ordinate systems, constellation and stellarium software. They will get an opportunity to watch the sunspots through a telescope.
- Phyphox App**: In this module the students will learn to use Phyphox App that allows them to use the Mobile sensors for Physics experiments. Students will be given information on how to use the app and carry out experiments, analyze the data and calculate various physical parameters.
- GNUPlot Software** : Gnuplot is a graphing utility. It was originally created to visualize mathematical functions and data interactively. We can use online webpages to generate graphs and plots. The plots generated online can be saved in various formats.



  
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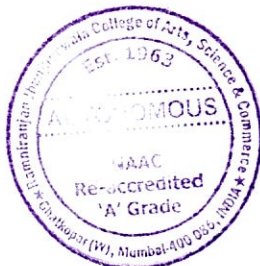
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COURSE CONTENT		
 <b>BASIC ELECTRONICS</b>	<b>MODULE 1</b>	<b>INTRODUCTION TO ELECTRONICS</b> In this module students will get introduced to basic electronic components and their applications.
	<b>MODULE 2</b>	<b>CIRCUIT DESIGNING AND CONSTRUCTION</b> In this module, the students will get hands-on training of circuit designing on bread board to construct "Object counter using IR sensor".
 <b>ASTROPHYSICS</b>	<b>MODULE 3</b>	<b>CO-ORDINATE SYSTEM AND CONSTELLATION</b> In this module, the students will learn about Celestial co-ordinate system, introduction to constellation and use of stellarium software.
	<b>MODULE 4</b>	<b>INTRODUCTION TO TELESCOPE</b> In this module, the students will learn about principle and working of a Telescope.
	<b>MODULE 5</b>	<b>OBSERVATION ACTIVITY</b> In this module, students will observe Sunspots through the Telescope.
 <b>PHYPHOX APP</b>	<b>MODULE 6</b>	<b>INTRODUCTION TO PHYPHOX I</b> In this module students will get an introduction of the Phyphox application available on mobile phones. Two experiments will be carried out in this module.
	<b>MODULE 7</b>	<b>INTRODUCTION TO PHYPHOX II</b> Three experiments will be performed using Phyphox in this module.
 <b>GNU PLOT SOFTWARE</b>	<b>MODULE 8</b>	<b>INTRODUCTION TO 'GNU PLOT' SOFTWARE</b> In this module students will learn to plot graphs of numerical data stored on a file and some functions. This tool can be used online without installing.
<p><b>MEDIUM OF INSTRUCTION : ENGLISH</b>  <b>EVALUATION : ATTENDANCE, ASSIGNMENTS AND MULTIPLE CHOICE TEST</b>  <b>PASSING CRITERIA : 40 / 100 MARKS</b>  <b>WHO SHOULD DO IT : PHYSICS UNDERGRADUATE STUDENTS</b>  <b>CERTIFICATE : CERTIFICATE OF PARTICIPATION WILL BE AWARDED TO A PARTICIPANT WITH MORE THAN 80% ATTENDANCE (Practical is Compulsory) AND WHO PROVIDE FEEDBACK.</b></p>		
<p><b>REGISTRATION</b>  <u>NO REGISTRATION FEE</u>            PLEASE REGISTER USING FOLLOWING LINKS: <a href="https://forms.gle/5UCyfdpkTyn8HUSjg6">https://forms.gle/5UCyfdpkTyn8HUSjg6</a></p>		<p><b>LAST DATE OF REGISTRATION : 12th JULY, 2022</b></p>



*(Signature)*

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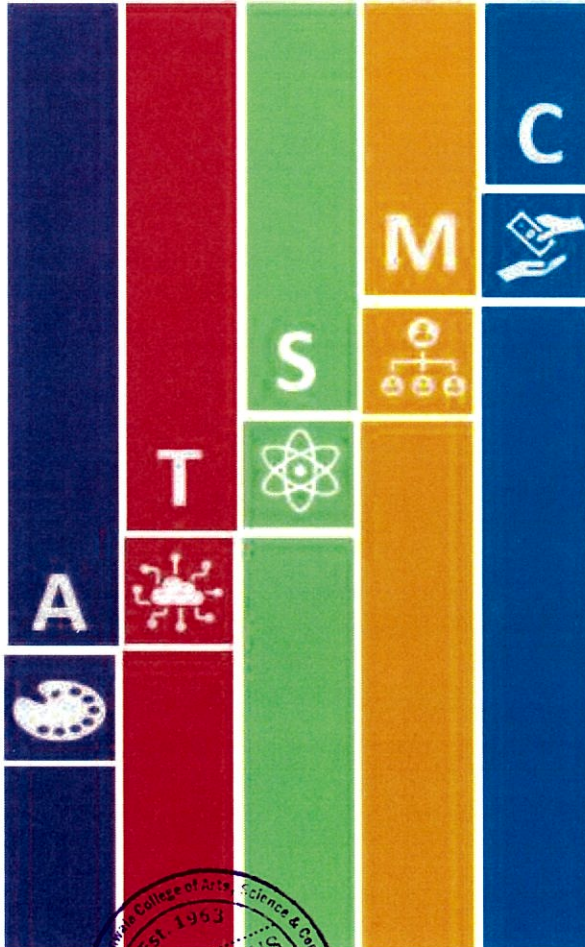
## BROCHURE



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NAAC Accredited 'A GRADE' with CGPA 3.50

### Knowledge is all Ambrosia



### CERTIFICATE COURSE IN

BASICS OF  
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**CERTIFICATE COURSE IN BASICS OF ELECTRONICS, ASTROPHYSICS, PHYPHOX APP AND GNUPLLOT SOFTWARE**

**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: **RJPHYC02**

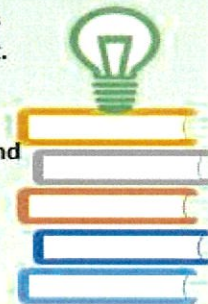
**D**uration: **30** hours

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

**LEARNING OUTCOME**

At the end of this course student will be able to

- Understand the basic electronic components and their application in constructing a circuit.
- Learn to use Phyphox App and carry out experiments
- Use GNUPlot Software to generate graphs and plots



*[Signature]*

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CERTIFICATE COURSE IN **BASICS OF ELECTRONICS, ASTROPHYSICS, PHYPHOX APP AND GNUPLLOT SOFTWARE**



## COURSE CONTENT

Module 1: Introduction to Electronics

Module 2: Circuit Designing and Construction

Module 3: Co-ordinate System and Constellation

Module 4: Introduction to Telescope

Module 5: Observation Activity

Module 6: Introduction to Phyphox I

Module 7: Introduction to Phyphox II

Module 8: Introduction to 'GNUPlot' Software



English

### MEDIUM OF INSTRUCTION

### EVALUATION

Continuous evaluation

### 100 MARKS



### PASSING 40

## WHO SHOULD DO IT?

Any student and teaching staff from Science faculty

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## Department of Physics

### Value added course 2022-23

#### REPORT

Course name: **Basics of Electronics, Astrophysics, Phyphox and Gnuplot**

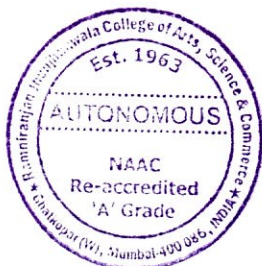
Course duration: **30 hrs**

Who can enroll? **Any undergraduate student**

Date of commencement: **From July 16, 2022 to September 30, 2022 (Every Saturday 2 Hrs)**

Course coordinators: Dr. Devraj Pawar, Rani Shaikh, Jagdish Hande, Rohit Chaudhary, Kirti Singh

Value added course (2022-23) "Basics of Electronics, Astrophysics, and Phyphox" was conducted for undergraduate students between July 16 to September 30, 2022. It was an 8-week (30 hrs) course. The students got an introduction of basic electronic components and their application in constructing a circuit. They got hands-on training to construct the circuit on a breadboard. The Astrophysics module was included to give the students a glimpse of sunspots and how they are created. Phyphox is an app that allows students to use the sensors in their phones for Physics experiments. Students learnt how to use the app and carry out experiments, analyse the data and calculate various physical parameters. Gnuplot is a graphing utility. It was originally created to visualize mathematical functions and data interactively. We can use online web pages to generate graphs and plots. The plots generated online can be saved in various formats. 60 SY and TY BSc students enrolled and 46 students completed this course successfully.



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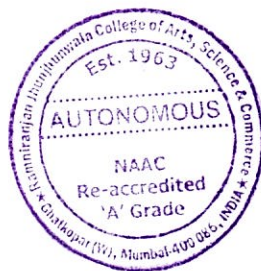
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## STUDENTS DURING THE VALUE ADDED COURSE "BASICS OF ELECTRONICS, ASTROPHYSICS, PHYPHOX AND GNU PLOT SOFTWARES"





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## LIST OF STUDENTS WHO COMPLETED THE VALUE ADDED COURSE IN BASICS OF ELECTRONICS, ASTROPHYSICS, PHYPHOX AND GNUPLOT

Name of the student	Class	Stream
Aditya Jaiprakash Yadav	S.Y.	Science
DEVRAJ DHARMENDRA KUMAR YADAV	T.Y.	Science
Vivek Vishwas Nikam	T.Y.	Science
Sachinkumar Jayprakash	S.Y.	Science
Vrushal A. Sonawane	S.Y.	Science
Neeraj Yadav	S.Y.	Science
Athawale Asawari Sharad Mangal	S.Y.	Science
Gopi Panoramram Vishwakarma	T.Y.	Science
Kajal Yadav	S.Y.	Science
Sneha Suryabhan Chauhan	T.Y.	Science
MUKHIYA KRISHANDEV RANJIT MUNNI DEVI	S.Y.	Science
Yadav Satyam Brijesh	S.Y.	Science
Om Manoj Yadav	T.Y.	Science
Maskar Pranit Shantaram Sharmila	S.Y.	Science
Sonali Dashrath Gupta	T.Y.	Science
Chandraketika Patel	T.Y.	Science
Yadav Shivam Ramashankar	S.Y.	Science
Mithilesh Rajdatta Shinde	T.Y.	Science
Manihar Gulafsha Abdul Qadir	S.Y.	Science
Shaikh Daraksha Naaz mohd Tauqeer	S.Y.	Science
Rinki Shyamnarayan Rajbhar	T.Y.	Science
AAKASH SUGRIV GIRI	T.Y.	Science
JIBRAAN KHAN	S.Y.	Science
Mishra Shivam Mahendra	S.Y.	Science
Prajapati Ashish Anand Shashi	T.Y.	Science

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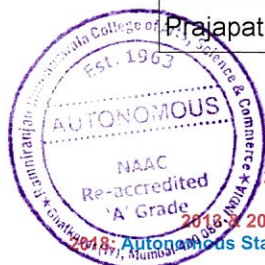
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Chaurasiya Nandini VijayKumar	S.Y.	Science
MANSI RAJENDRA SAW	S.Y.	Science
Khan sahana noor mohd	S.Y.	Science
Karan Hanumant Maske	S.Y.	Science
RANKHAMBE NILESH YOGESH VAISHALI	S.Y.	Science
Mayuri Shashikant Javadekar	T.Y.	Science
Ujwal	T.Y.	Science
Pal Arvind Radheyshyam	T.Y.	Science
Pawan kumar	S.Y.	Science
Chinmay Sanjay Shinde	T.Y.	Science
Swati Rajesh Shukla	S.Y.	Science
Mishra Mohit Raju	S.Y.	Science
Nikhil Dinesh Pandey	S.Y.	Science
Suryakant Bind	S.Y.	Science
Sonika Sunder Soni	T.Y.	Science
Ashana Faiyaz Ansari	T.Y.	Science
Vivek Yadav	T.Y.	Science
ANSARI MOHD AMJAD MOHD TAHIR ALI	T.Y.	Science
Pal Aakash jittal	S.Y.	Science
Anurag umesh chaurasiya	S.Y.	Science
Yadav yogesh janardan	S.Y.	Science
PANDEY SHUBHAM CHANDRABHUSHAN	T.Y.	Science
Nayana Santosh Aher	S.Y.	Science
ASIF AZIMUDDIN SIDDIQUE	T.Y.	Science
Yadav Harsh Laxmishankar Anita	T.Y.	Science
Jaiswar Abhay Kumar Ganesh	S.Y.	Science
Yashwant Ostwal	T.Y.	Science
Saima shaikh zaheed	T.Y.	Science
Shubham Tiwari	T.Y.	Science

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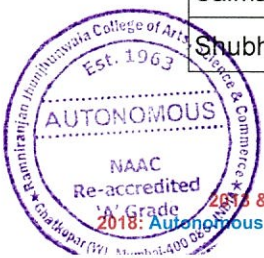
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Sonal Brijbhan mali	S.Y.	Science
Nitesh Giri	T.Y.	Science
DEEPAK PRAKASH RAJBHOJ	S.Y.	Science
Anjali parsad	T.Y.	Science
Prajapati Ashish Dinesh Geeta	S.Y.	Science



  
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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)





# 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)

## Certificates



2019: Star College Status by DBT

2008: 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

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

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