

Rayat Shikshan Sanstha's
KARMAVEER BHAURAO PATIL COLLEGE VASHI
DEPARTMENT OF PHYSICS

(DETAILS OF THE ACTIVITY CONDUCTED UNDER RUSA GRANTS)

- *Name of the Activity: One week workshop on 'Embedded System Basics and 8051 Microcontroller Interfacing' from 19th – 24th Jan. 2021.*

INDEX

Sr. No.	Particulars	Remark
1	Brochure of Event	A
2	Registration details- List of participants	B
3	Invite letters to the resource persons	C
4	Biodata of resource persons	D
5	Links of Event like - YouTube / Meeting platform link	E
6	Feedback of participants (link) / prominent feedback from participants	F
7	Photographs / screenshots of online event	G
8	Certificate Sample	H
9	Brief activity report stating objectives and outcomes of the event	I
10	Exact expenditure incurred	J



One week workshop on Embedded System Basics and 8051 Microcontroller Interfacing



Organized by
Department of Physics
Rayat Shikshan Sanstha's,



Dr. Ashish K. Rewatkar
Objectives :

Karmaveer Bhaurao Patil College,

Vashi, New Mumbai

Funded by:
"RUSA Autonomy Grant"



Head
Physics Department
KARMAVEER BHARAO PATIL COLLEGE
VASHI NAVI, NEW MUMBAI

1. Embedded System has immense importance in the field of automation, hence to know the basic of the automation the certificate course has been designed.
 2. The students are trained with hand on practice through designed developer circuit boards.
 3. Various methodologies were adopted to impart the knowledge and at the same time students are assessed through online methods.
 4. Updated applications also taught through the certificate course.
- Outcomes :**
1. Know what an embedded system is a basic understanding of General System Theory.
 2. Understanding of what an embedded system in R&D project.
 3. Experience of embedded system product conceptualization methods.
 4. Suggestion of own product concepts with development of prototype circuit on breadboard. (including interfacing to microcontroller and control from software)
 5. Interface to peripherals, knowledge of typical interfacing standards.

19 to 24th January, 2021 at 10am to 1.30pm
Session will be held through Google Meet

Registration Link: <https://forms.gle/Zb2WLS7CAaPouE5S8>
Google Meet Link: <https://meet.google.com/pbn-zidg-vmm>

Day 1 (4 Hrs.):-

Embedded System Basics and Hardware Description of 8051 :

Basic of Embedded System, Characteristics of Embedded System, basic building blocks of Embedded System, Difference Between microprocessor and microcontroller and basics about different types of microcontroller available. Basics of 8051 microcontroller, pin architecture of 8051 microcontroller, basic circuit requirement of 8051 microcontroller and Internal and external memory architecture of 8051 Microcontroller.

Day 2 (4 Hrs.):-

Programing in 8051 :

Programming architecture and structure of 8051 microcontroller, discuss about addressing modes, Instruction formats and Instruction Set of 8051 microcontroller.

Day 3 (4 Hrs.):-

LED Interfacing and SSD Interfacing :

Discuss about how to interface peripherals with the 8051 microcontroller and how to interface array of 8 LEDs (Light Emitting Diode) with 8051 microcontroller and develop drivers for it. Interfacing SSD (Seven Segment Display) in simple way as well as multiplexed way with the 8051 microcontroller and develop drivers for it.

Day 4 (4 Hrs.):-

LCD Interfacing :

Interfacing alphanumeric 16 x 2 LCD (Liquid Crystal Display) in 8 bit mode with the 8051 microcontroller and develop drivers for it.

Day 5 (4 Hrs.):-

Keyboard Interfacing :

Interfacing keys as well as Hexadecimal Key-Pad with the 8051 microcontroller and driver develop for it.

Day 6 (4 Hrs.):-

Serial Communication basics and Serial Protocol I²C :

Connecting Computer (PC) with 8051 microcontroller through RS 232 cable using UART (Universal Asynchronous Receiver and Transmitter) and driver develop for it. Discuss about Serial Protocols which are ready to connect with microcontrollers and what is I²C (Intra Integrated Circuit) Bus and features and characteristics of I²C Protocol. Interfacing RTC (Real Time Clock) with 8051 microcontroller using I²C Protocol and develop driver for it.

Head

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RANDESHWAR A-1024, PALLI COLLEGE
GATEWAY, SAVNI, P. H. O. D.

Convener

Dr. Kamlesh V. Chandekar

Dr. V.B. Pujari

Dr. Shubhada Nayak

Principlepal

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Estd July 1979

I/C Principal
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Ref. No.: 540/2020-21

Date : 16/01/2021

To,

Dr. Ashish K. Rewatkar

Assistant Professor, Dept. of Electronics

Kamla Nehru Mahavidyalaya, Nagpur

Respected Sir,

On behalf of organizing committee, we request you to give your consent as a resource person for invited talk for one week work shop on "Embedded System Basics and 8051 Microcontroller Interfacing" during Jan 19-25, 2021. This workshop is sponsored by RUSA. We are sure about your definite academic contribution in this workshop. Waiting eagerly for your favorable reply.

Thanking you,

Yours sincerely,

NAAC GRADE 'A+'
CGPA 3.53
(SINCE 2017)


DBT-STAR STATUS
GOVERNMENT OF INDIA
(SINCE 2019)

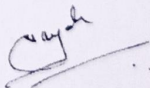
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(SINCE 2019)

DST-FIST SCHEME
GOVERNMENT OF INDIA
(SINCE 2013)

BEST COLLEGE AWARD
UNIVERSITY OF MUMBAI
(2013-14)

ISO 9001:2015
INTERNATIONAL
ACCREDITATION FORUM
(SINCE 2017)


Head
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Dr. S. Nayak
Principal
KBP College, Vashi,
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References :

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1) Dr. V. V. Rangari
Associate Professor & Head of Dept. (Elect.)
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I hereby declare that the aforesaid information is true to best of my knowledge & belief.

Place : Nagpur

Date :

(Dr. Ashish K. Rewatkar)



Head
Physics Department
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Curriculum Vitae

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Dr. ASHISH K. REWATKAR (M.Sc. Electronics, Ph. D, SET)

Career Objective

To apply my education, experience and knowledge within an organization that provides growth and further opportunities and to be part of team

Educational Qualification

- a) Qualified SET [Electronics Science] Sept. 2015
- b) Ph. D. Awarded from R. T. M. Nagpur University, topic is "Development of Luminescence Instrumentation using Embedded Techniques" under the guidance of Dr. P. B. Dahikar, Vice Principal & Head of Electronics Department, Kamla Nehru Mahavidyalaya, Nagpur (June 2015)
- c) M. Sc. [Electronics] from Kamla Nehru Mahavidyalaya Sakkardara Nagpur affiliated to RTM, Nagpur University - 62.1% (2005)
- d) B. Sc. [Physics, Math & Electronics] from Dr. Ambedkar College, Deeksha Bhoomi, Nagpur affiliated to RTM, Nagpur University - 52.66% (2003)

Experience

Having total 11 Year Experience

(7 Year 6 Months teaching and 3 Year 6 Months Industrial Experience)

- 1) Presently working as an Approved (Non Granted) Assistant Professor in Kamla Nehru Mahavidyalaya Sakkardara Nagpur (from Oct. 2015)
- 2) Four years teaching experience as an adhoc basis Assistant Professor for B. E. & Poly (Electronics & Telecommunication), M. C. A. & M. Tech. (VLSI) in Nuva College of Engineering & Technology, Kalmeshwar, Nagpur (From July 2011 to Sept. 2015)
- 3) Approximately One year embedded system developer experience as an R & D Embedded Engineer in ilabs, Nagpur (From Oct. 2010 to June 2011)
- 4) Two and half year training & project designing experience as an Embedded Engineer in Prolific Systems and Technology Pvt. Ltd. (From March 2008 to Sept. 2010)
- 5) Three academic years teaching experience as an adhoc Lecturer in Kamla Nehru Mahavidyalaya Sakkardara Nagpur (from Aug. 2005 to March 2008)

Feedback Form

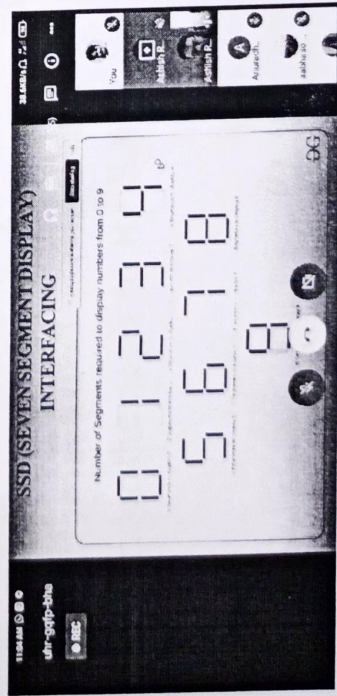
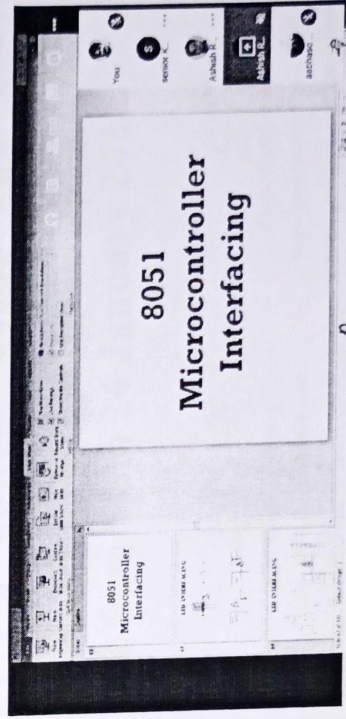
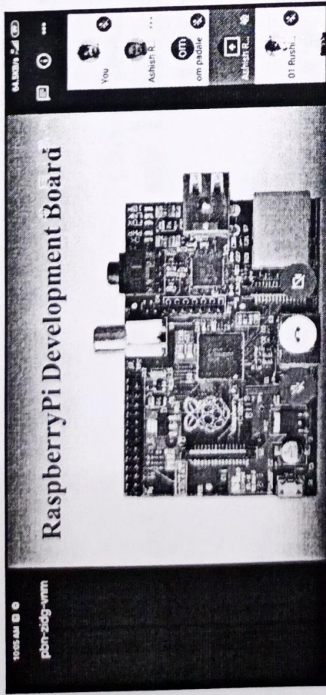
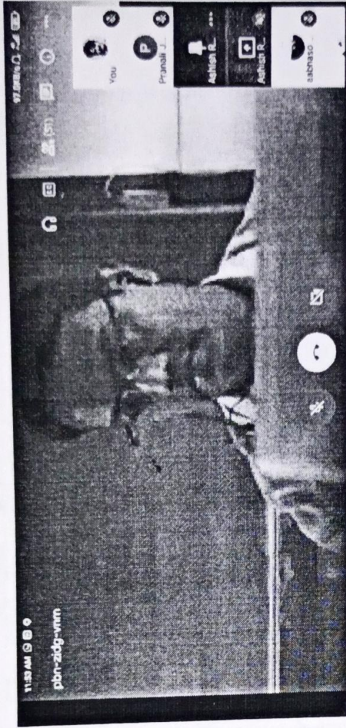
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2-4-2021 8:20:22	supriyakhandu19@gmail.com	cor supriya Santosh Khandu	7718069500	4	5	3	4	3
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2-4-2021 9:34:55	shaistaansari93371@gmail.com	Ms. Shaista Ansari	9004487787	4	5	5	5	5
2-4-2021 9:56:47	surajharal@gmail.com	Sufaj Vasant Haral	9604566759	4	4	5	5	5
2-4-2021 10:03:19	sawantaishwarya951@gmail.com	Aishwarya hindurao sawant	9967796726	5	5	4	4	5
2-4-2021 10:38:49	harshagogawale05@gmail.com	Ms. Harshada Dadasaheb Gogawale	7385002511	5	5	5	4	5
2-4-2021 11:13:38	abhijit01@gmail.com	Mr. Abhijit Madhukar Patil	8356883860	5	5	5	5	5
2-4-2021 12:17:27	prakashinde17@gmail.com	Mr. PRAKASH RAJESH SHINDE	7715907689	4	3	3	3	3
2-4-2021 12:40:09	akashrajage444@gmail.com	Mr. Akash Haridada Rajage	9987147785	5	5	5	5	5
2-4-2021 19:50:34	jwelnit67@gmail.com	Jwelnith Nitin mhatre	9076467478	4	4	4	4	5
2-4-2021 20:56:41	rushishinde46473@gmail.com	Mr. Rushikesh Rameshwar Shinde	9076350277	5	5	5	5	5
2-5-2021 9:26:57	aditigavali20@gmail.com	Gavali Aditi Rohidas	9321219107	4	4	4	5	5

Head

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 KARMAVEER BHURAO PATIL COLLEGE
 VASHI, NAVI - MUMBAI



Rayat Shikshan Sanstha's

**Karmaveer Bhaurao Patil College,
Vashi, Navi Mumbai - 400703.**





One week workshop on
**Embedded System Basics and 8051 Microcontroller
Interfacing**

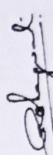
19 - 24, Jan. 2021


Certificate


This is to Certify that, *Vedant Ganesh Bhosle* has actively participated in,
one week workshop on, "Embedded System Basics and 8051
Microcontroller Interfacing" organised by Department of Physics
under the aegis of RUSA of our college from 19 to 24 January 2021.


Dr. Kamlesh V. Chaudhkar
Convener


Dr. V. B. Pujari
Head of Physics Department


Mr. Sarang Bhagavat
RUSA, Co-ordinator


Dr. Shubhada Nayak
Principal, KBPC, Navi Mumbai


Head
Physics Department
Karmaveer Bhaurao Patil College
Vashi, Navi Mumbai

Brief Report of Students Training Program

on “One week workshop on Embedded System Basics and 8051 Microcontroller Interfacing”

Embedded System has immense importance in the field of automation, hence to know (i) the basic of the automation the certificate course has been designed. (ii) The students are trained with hand on practice through designed developer circuit boards. (iii) Various methodologies were adopted to impart the knowledge and at the same time students are assessed through online methods. (iv) Updated applications also taught through the certificate course..

Outcomes:

It provides an environment to the students of the institute as follows

- (i) Knowing an embedded system is a basic understanding of General System Theory.
- (ii) Understanding of an embedded system in R&D project.
- (iii) Experienced of embedded system for product conceptualization methods.
- (iv) Suggestion of own product concepts with development of prototype circuit on breadboard. (including interfacing to microcontroller, and control from software)
- (v) Interface to peripherals, knowledge of typical interfacing standards.

Links:

- 1) Registration form link: <https://forms.gle/Zb2WLs7CAaPouEES8>
- 2) Google meet link: <https://meet.google.com/pbn-zidg-vnm>
- 3) Feedback form link: <https://forms.gle/3b8LRQCKnW2eGbgC7>

Kamlesh

Dr. Kamlesh V. Chandekar
Convener

A
Head

Physics Department
KARMAVFER B- AURAO PATIL COLLEGE
VASHI, NAVI - MUMBAI