**WALCHAND COLLEGE OF ENGINEERING SANGLI**
(*Government Aided Autonomous Institute*)

**Two Credit**
**VALUE ADDED COURSE**

**On**
**Internet of Things**
**(Approved under Center for Continuing Education)**

**From**
**25th September 2021 to 16th October 2021**
**[Every Saturday, Sunday only]**



**Course Co-coordinators**
**MrsA.M.Chimana**
**Asst.Professor**

**Dr. P. H. Sawant**
**Director**

**Dr.S.B.Joshi**
**CCE Coordinator**

**Dr.M.A.Shah**
**HOD, Department of CSE**

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## ABOUT WALCHAND COLLEGE OF ENGINEERING

Walchand College of Engineering Sangli (WCE), established in 1947 and aided by the Govt. of Maharashtra, is one of the oldest and premier engineering institutions in India. With a rich history of over 70 years and a beautiful campus of over 90-acres, WCE Sangli, is providing transformational learning experience in various disciplines of engineering.

WCE offers 6 UG programs in Civil, Electrical, Mechanical, Electronics, Computer Science and Engineering and Information Technology and 10 PG programs. It also offers PhD programs under Shivaji University, National Doctoral Fellowship of AICTE and under Quality Improvement Program (QIP) scheme of Ministry of Human Resource Development (MHRD). At present, around 1900 students are studying in various B.Tech programs, 480 students in M.Tech programs and around 75 scholars are pursuing their PhD programs. Walchand College of Engineering is affiliated to Shivaji University Kolhapur and is approved by AICTE, New Delhi. The institute is also given autonomous status by University Grants Commission since 2007.

The students of WCE get placed in reputed Multinational and Indian Companies such as Google, Microsoft, LinkedIn, Amazon, John Deere, Rakuten, P&G, Mahindra, TCS, Infosys and many other companies. With a high percentage of placements, WCE students also get very good packages, with the highest package being 43 LPA in the year 2019.

Through the Transformational Teaching Learning (TTL) processes, WCE aims at overall development of students with focus on Education, Employability and Employment. The Track Based Curriculum and Choice Based Credit System along with Value Added Professional and Life Skill Courses at WCE, enable students to choose appropriate path of their career.

## ABOUT COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

The CSE department of WCE has been established in the year 1986 with the introduction of Undergraduate Programme in Computer Science and Engineering. The UG and PG programmes of the department are affiliated to Shivaji University, Kolhapur and use the academic autonomy for the overall development of students with focus on Education, Employability and Employment. The Ph.D. Programme in the department which runs under AICTE's QIP has boosted the research culture further. The department also provides research guidance to Ph.D. students of Shivaji University, Kolhapur. Many researchers have completed their Ph.D. research work at the department. The strong research culture, fully equipped computing facility and well qualified faculty and staff are the key highlights of the department.

## COURSE INTRODUCTION

Department of CSE has launched value added programme on Internet of Things under Center for Continuing Education (CCE). Emerging trends in technical and professional education call for value addition i.e. students must acquire something more than what is provided in the curriculum. The college offers numerous of value added courses which are designed to bridge the gap between the academia and industry. By doing this VAP course participant excel in Internet of Things basics.

## PROGRAMME OBJECTIVES

- To illustrate the basic concepts of Internet of Things.
- To demonstrate working of Ardino and Raspberry Pi.
- To develop the skills of providing solution for real life problem using IoT .

## COURSE CONTENT

The syllabus of the course typically consists of 4 modules namely Introduction to IoT, Introduction to Aurdino programming and Raspberry Pi, Case studies, Implementation of mini project on IoT.

## COURSE SCHEDULE & EVALUATION

**Date**: 25th September 2021 to 16th October 2021 (Every Saturday, Sunday only)
1. There will be internal evaluation and Final exam.
2. Internal evaluation (Assignment and Quiz) carries 30 marks while Final exam carries 70 marks.
3. At the end of every session there will be assignment and quiz as part of internal evaluation.
4. Mode of Final Examination will be online mode
5. For final exam Question paper will contain objective and subjective type questions.
6. Maximum marks will be 70
7. Time duration of final examination will be 120 minutes.

**Certificate**: A certificate will be issued to the participant, after successful completion of the course and after clearing final exam with at least 40 marks (including internal evaluation). For WCE students, the credits of this Value Added Course shall be mentioned on the grade card. These credits shall not be considered for CGPA/SPGA calculation.
Note: Detailed course schedule will be displayed later on website.

## VENUE FOR CLASSES

Online Mode: Lectures will be conducted in online mode through Google meet, Microsoft teams etc.

## FACULTY/SPEAKERS

| No. | Name | Organisation | Affiliation |
|-----|------|--------------|-------------|
| 1 | Mr. Amey Tambe | Samarth Techno services, Pune | Director |
| 2 | Mrs. Amruta. M. Chimanna | WCE, Sangli | Asst.Professor |
| 3 | Mr. Abhijeet A. Urunkar | WCE, Sangli | Asst.Professor |
| 4 | Ms. Aprupa S. Pawar | WCE, Sangli | Asst.Professor |

## IMPORTANT DATES

The course will be organized during: 7 sessions 25th September 2021 to 16th October 2021 (Every Saturday, Sunday only)

Deadline for submitting application: 23th Sept. 2021

Notification of acceptance: 24th Sept.2021

Note: Incomplete application forms will not be entertained. Please fill the form carefully.

## ELIGIBILITY FOR COURSE RESGISTRATION

All students of engineering discipline, faculty from various colleges having basic knowledge of programming can register for this course.

## ELIGIBILITY FOR COURSE CERTIFICATE

All participants who have successfully attended the sessions and completed the assignments within given time and who have passed the final exam (which will be scheduled at the end of course) with 40% marks they will be eligible for certificate.

Final score will be calculated as: 70% marks secured in final exam and 30% from assignment score.

## REGISTRATION

Candidates should complete the registration by submitting the form **online** (the link is given below). Candidate need to pay registration fees **online**. A link for online payment is also provided below. Confirmation of eligible candidates will be on a first come first served basis.

**Registration steps:**

1. **Online payment of fees using Google Pay/Phone Pay/Net Banking (details are provided below)**

2. **Online Submission of course registration form( form link is given below)**

**Registration fees**: Rs.1300\- (Including exam fee)

**Registration form link: https://forms.gle/xu8tbnWaimhFVtkk8**

**Payment of fees: Use Google Pay/Phone Pay/ Net banking for online payment of Fees**

**Account details:-**

| Name of Bank | Bank of India |
|---|---|
| Branch | Vishrambagh, Sangli |
| A/c No | 150710110000187 |
| IFSC | BKID0001507 |
| MICR | 416013154 |

**Website link (for more details): http://wce-valueadded.herokuapp.com/**

**Enquiries:**
**Course Coordinator:**

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**Note: Detailed course schedule will be displayed later on website.**