

WALCHAND COLLEGE OF ENGINEERING SANGLI
(An autonomous institution affiliated to Shivaji University)



Two Credit
VALUE ADDED COURSE
(Approved under Center for Continuing Education)

On
Deep Learning Basic to Advances

From
1st March to 31st March 2021
[Only on Saturday and Sunday].



Course Co-ordinators

Mr. Kiran P. Kamble
Assistant Professor

Miss. Pooja D. Mundada
Assistant Professor

Dr. P. H. Sawant
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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 Deep Learning basic to advances for Every learner under Center for Continuing Education (CCE). This course is designed to introduce the participants to the exciting area of Deep Learning. Starting from the basics of Neural Networks, powerful architectures and techniques in deep learning are introduced, such as Recurrent Neural Nets, Convolution Neural Nets and Generative model. The emphasis is on providing insight and feel for each technique, rather than the theory. A crucial part of this course is the hands-on sessions. About half the course time is spent on the hands-on sessions and demos. The hands-on sessions show how to program and implement various deep learning techniques in different real-world applications. Python based libraries are used throughout the course for software exercises. Lastly, demos show how to deploy the deep learning-based models on embedded boards, such as Raspberry Pi and Jetson TK1/TX2

PROGRAMME OBJECTIVES

- To excel participants in Deep-learning technology.
- To train and guide participants to do cutting-edge research in the areas related to the Deep learning.
- To grasp depth of Deep-Learning model creation and solve problem of real-life using DL.

COURSE CONTENT

- Introduction to Deep Learning , Back propagation, Image fundamentals Parameterized Learning, Optimization Methods, Convolutional Neural Networks (CNN), CNN Building blocks, Deep learning-based object detection Sequence Models, Generative Models, Browser-based DL Model Inference using Java Script Inference edge device.

****For WCE students the earned credits from value-added courses would also be reflected into their grade card as additional credits along with regular defined academic credits.**

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	Dr. Meghshyam Prasad	Target Walmart	Principal AI Scientist
2	Prof. Kiran P. Kamble	WCE, Sangli	Asst.Professor
3	Prof. Nandini Mudegol	WCE, Sangli	Asst.Professor
4	Prof P. D. Mundada	WCE, Sangli	Asst.Professor
5	Prof. Hetal V. Gandhi	WCE, Sangli	Asst.Professor
6	Prof. V. N. Honamane	WCE, Sangli	Asst.Professor

IMPORTANT DATES

- The course will be organized during: 1st March to 31st March 2021.
- Deadline for submitting application: 27th Feb 2021.
- Notification of acceptance and detail schedule: 28th Feb 2021

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

ELIGIBILITY FOR COURSE REGISTRATION

Faculty & Students from any branch of Engineering or Science, Researchers, and Industrial Practitioners can attend and benefit from this course. Familiarity with college level mathematics is desirable.

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 fees:

Sr.	Type of Participant	Fees (Rs.)
1.	Outside WCE PhD students and faculties	3000/-
2.	Outside WCE PG students	2500/-
3.	Outside WCE UG and diploma students	2000/-
4.	For WCE PhD students and faculties	2500/-
5.	For WCE PG Students	2000/-
6.	For WCE UG and Diploma students	1500/-

Payment of fees:

Account details

Bank of India, Vishrambag, Sangli

A/c No.: 150710110000187

IFSC: BKID0001507

MICR: 416013154

Registration form link: <https://forms.gle/H4w42KR2f1zvHZ557>

For more details and offers kindly visit <https://wce-valueadded.herokuapp.com/>

Address for Correspondence and Enquiries:

Course Coordinator:

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