Shri Saraswati Bhuvan Education Society's

S.B.E.S. College of Science, Aurangabad

Reaccredited by NAAC with "A" Grade   An ISO 9001: 2008 Certified   'A' Grade by Dr. B.A.M. University

National Level
Faculty Development Programme
on

"Machine Learning, Deep Learning and Applications"

8th to 12th April - 2019

Organized by
Department of Computer Science & IT

Sponsored by
E&ICT Academy,
PDPM IIITDM Jabalpur
An Initiative of
Ministry of Electronics and Information Technology,
Government of India

● **Visit Us** ●

Saraswati Nagar, Aurangpura, Aurangabad (M.S.) Phone : 0240-2332192
Email : sbsciencecollege@gmail.com Website : www.sbscience.org

S. B. Signifies Sanctity, Sacrifice & Scientific Temper

ABOUT SB EDUCATION SOCIETY :

Shri Saraswati Bhuvan Education Society, Aurangabad was established in the year 1915 and recently celebrated 100 years. The institute is committed to social and educational reforms. This Institution is group of dedicated and zeal-am peoples some of the names like - the visionary freedom fighter and founder Padmvibhushan Late. Govindbhai Shroff, Great Veteran Parliamentarian Late Dr. Bapusaheb Kaldate and Educationist Late. Prof. Dinkar Borikar, the society is progressing towards providing holistic education in Arts, Science and Commerce fields. Today, the S. B. Education Society is known for a knowledge hub and one of the oldest and the most reputed Educational Institute in Maharashtra. Considering the high profile of the institution in academics, its valuable contribution in educational and social fields, the Govt. of Maharashtra, of its own conferred the award as 'the best institution in the state' in the very first year of its inception of 5th September 2000.

ABOUT SBES COLLEGE OF SCIENCE :

S.B. College enjoys a rich and distinctive history among institutions of Maharashtra. Continuing the vision of the founders, it takes seriously the education, nurturing social values and human development. This well known educational institute has successfully completed fifty five years. The Institution feels proud to be an Alma Mater of brilliant students who have made rich contributions in the field of medicine, engineering, technology, Judiciary, Art and Drama, Research, Sports and basic sciences. NAAC has reaccredited 'A' grade to the college in 2014.

College offers B.Sc., B.C.S., B.Voc. Programs at UG level and M.Sc. in 6 subjects at PG level. Most of the faculties are Ph.D. Guides who are guiding the Ph.D. scholars of various subjects. Beside this, College has started 11 certificate courses from academic year 2018-2019. 4 of them are value education courses and remaining are skill-oriented.

ABOUT DEPARTMENT OF COMPUTER SCIENCE & IT :

To provide a gateway for emerging technologies in the field of Computer Science, SBES College of Science has established Department of Computer Science & IT in 1995. The vision of our department is to provide high quality education in the field of Information Technology to the students from Marathwada Region and creating job opportunities for them. Department started undergraduate course on B.Sc. from 1995 on self-finance basis.

In year 2005, the professional course B.Sc. in Computer Science (BCS) has been started. In year 2000, Department started two post graduate courses M.Sc. C.S. and M.Sc. I.T. from 2012 and B.Voc. from 2018. A Placement Cell is active and pursuing all the time Job opportunities by organizing Campus Interviews in the Institution. Till date department is progressing towards providing holistic education and innovative practices by arranging various guest lectures, seminars and workshop on advanced technologies.

ABOUT E&ICT ACADEMY, IIITDM, JABALPUR :

Ministry of Electronics and Information Technology, Government of India has instituted seven Electronics and ICT Academy at PDPM IIITDM Jabalpur with the primary objective preparing manpower for two important missions — 'Digital India' and ' Make in India '. The Academy aims at the design and implementation of scalable training programs in niche areas of electronics and ICT for the development of required knowledge base, skill and tools to unleash the talent of Indian population. The Academy at PDPM IIITDMJ run high quality specialized courses for faculty, students and unemployed graduates. In addition, the Academy conducts customized training programs and research promotion workshops for corporate sector and educational institutions. The Academy is envisioned to become a central hub of activities on training, consultancy work and entrepreneurship programs.

ABOUT THE PROGRAMME :

The faculty development programme focuses on the recent topics like machine learning, deep learning and its applications. The program will cover all the content in five days with two sessions per day including Theory and Practicals. The faculties will have in-depth coverage on topic like Python, R and Tensor Flow etc. This FDP is a great opportunity for the aspirants who want to get updated and do research in this field. The platform provides good interaction with the highly eminent resource persons from IIITDM and leading institutions. Over the last fifteen years much effort have been taken by the researchers to develop this field. Participants will have a great opportunity to get acquainted with the new era & technology. So be the part of it.

IMPORTANT DATES :

Last Date of Online Registration: 30th March 2019
Limited Seats are Available.

HOW TO APPLY :
Interested Faculty Member can fill Registration Form online at http://www.sbscience.org/fdp/registration along with payment details.

CONTACT PERSON :
Mrs. Pradnya Naik (Mobile: 9420265243)

REGISTRATION FEES :
1) Faculty & Research Scholar : ₹ 1500/*-
2) Industry Person : ₹ 3000/-*
* Includes: Registration Kit, Breakfast & Lunch only

PAYMENT DETAILS :
A/c Name: Principal, SBES College of Science, Aurangabad.
A/No: 20133400373 IFSC : MAHB0001259
Bank: Bank of Maharashtra, SB Colony Br, Aurangpura, Aurangabad.

NOTE :
- Participants can also have their Laptops for practical sessions.
- 100% Attendance & Examination is mandatory to avail Certificate.

COURSE CONTENTS :
1. Introduction to Basic Statistics - Sampling & Design, Hypothesis Testing, Time Series Analysis, Probability and Distributions (Binomial, Multinomial, Poisson, Normal, Bernoulli and Fisher's), Data Analysis & Visualization, Random Variables, Mean and Variance, Frequency distribution, Marginalization, Independence, Conditioning, and Bayes Rule, Inferential statistics, Z-Test, T-Test, Chi-Square Test, F-test, ANOVA.
2. Python Programming - Basic constructs variables, loops, functions, libraries, arrays, and utilities. Working of Anaconda, Pandas, Spyder, Jupyter notebook, Matplotlib, Scipy and Numpy.
3. Machine Learning & Deep Learning Fundamentals - Supervised, Unsupervised & Reinforcement Learning Algorithms, Kernel Based ML, Bayesian Learning, Regression Analysis & Classification (KNN, Maximum Likelihood, ISODATA, Random Forest), Clustering (K-Means) & Decision Trees, PCA, LDA, ICA, HMM.
4. Applications of Machine Learning & Deep Learning - Dog/Cat Image Classification, Speaker Recognition, NLP (Chatbot).
5. Tensorflow Open Source Machine Learning Framework - Installation and Configuration, Basic classification, Text, Image & Speech classification, Regression, Overfitting and Underfitting, Time Series, Sentiment Analysis. Sample applications with above mentioned Dataset.

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RESOURCE PERSONS

Prof. Aparajita Ojha
Professor CSE and Chief Investigator,
E&ICT Academy IIITDM Jabalpur.

Dr. Vinay Kulkarni
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Dept. of Mechanical Engineering,
IIT Mumbai.

Mr. Madhusudhana Rao
Director, UG Consultants,
Bangalore.

Mr. Tushar Kute
Researcher, MITU Skillologies,
Pune.

Mr. Adarsh Raveendra
Freelance Corporate Trainer
Machine Learning, Bangalore.

OUR PATRONS

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Chairman, School Committee & Joint Secretary,
S.B. Education Society, Aurangabad.

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COORDINATORS

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