

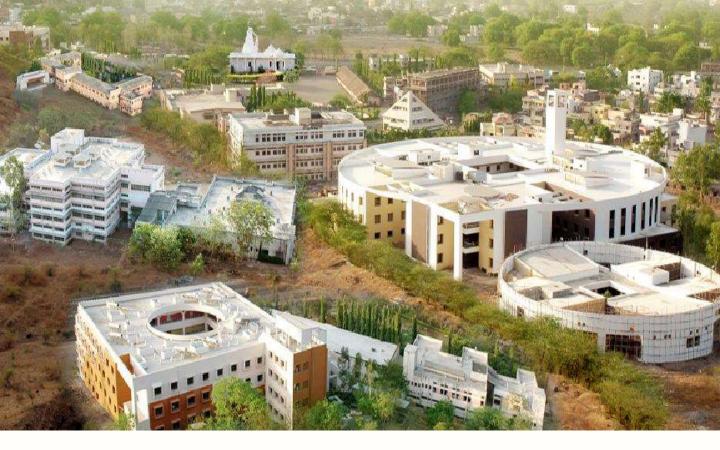
VOL-7 ISSUE-1



DEPARTMENT OF COMPUTER **ENGINEERING**

SEMESTER-I

ACADEMIC YEAR 2021-22



STUDENT COMMITTEE COORDINATOR

BABHALE SHARVARI BE COMPUTER

JAYASHRI PENDHARI BE COMPUTER

KOTECHA PRACHI TE COMPUTER

THAKUR MAYUR TE COMPUTER

VYAS SAKSHI SE COMPUER MOHIT JAIN SE COMPUTER

FACULTY COORDINATOR

Dr. M. R. SANGHAVI CHIEF EDITOR

PROF. K. M. SANGHAVI EDITOR (I/C)

PROF. R. R. BHANDARI ASSOCIATE EDITOR







SNIB's

Late Sau. Kantabai Bhavarlalji Jain College of Engineering



VISION

Transform young aspirant learners towards creativity and professionalism for societal growth through quality technical education.

MISSION

- To share values, ideas, beliefs by encouraging faculties and students for welfare of society.
- To acquire the environment of learning to bridge the gap between industry and academics.
- To enhance diverse career opportunities among students for building nation.
- To transfer the suitable technology particularly for rural development.



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SNJB's

Late Sau. Kantabai Bhavarlalji Jain College of Engineering



Department of Computer Engineering

VISION

To empower young generations for significant contribution in the field of computer engineering through excellence in knowledge, technical education and innovation to cater the industrial demands and societal needs.

MISSION

- To achieve academic excellence by inculcating basic and latest knowledge in which new idea flourish.
- To undertake collaborative training which offer opportunities for long term interaction with academia and industry.

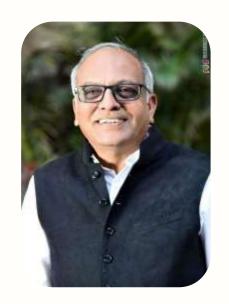


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SOURCE OF INSPRIATION



SHRI.DINESHKUMARJI LODHA



SHRI. ZUMBARLALJI BHANDARI



SHRI. SUNILJI CHOPDA

DIRECTORS OF COLLEGE OF ENGINEERING SOURCE OF MOTIVATION



DR. M. D. KOKATE PRINCIPAL



DR. M. R. SANGHAVI VICE-PRINCIPAL



FROM HEAD OF DEPARTMENT CORNER



DR. M. R. SANGHAVI

It gives me great satisfaction to welcome you all on behalf of the entire Computer engineering department. Happy to share the release of **Computer Buzz**, Vol-7 Issue-1. Dedication, Devotion and Determination are keys to success in any endeavor. With the due respect Department of Computer Engineering believe in the philosophy of "Learning by Doing".

It is heartening to see the transformational programs of our government such as Digital India, Skill India, Stand-Up India .In the same context our department has adopted the practical solutions based on 'Digital Theme'.

Department aims to 'Go Green' by using digital technology and making the system paperless ultimately saving the environment. The department encompasses a fine blend of renowned as well as young and dynamic faculties who promote the theme using the digital medium; the blog for sharing their teaching and other technological information making it global; Google Classroom for interacting with the students to upload their assignments/classwork which students can access any time, any where; Google Forms to conduct mock tests for Online Examinations.

Apart from academic activities, encouragement to appear for extra as well as co-curricular activities and many other academic excellences certainly pave a red carpet welcome to the hard working students in the department. **Parent Teacher Meet, Salesforce Training,Internship Program** & multiple programs under banner of **CSI & SPACE** are highlights of this semester.

The Alumni of the Institute have done exceedingly well in all walks of life at both national and international levels, brought name and fame for themselves as well as to their parent institute. The Institute takes pride in their success.

Our students have achieved the pinnacle of success by getting placed in Top MNCs like **Infosys, Wipro, TCS, Eternus, Capgemini** & many more...



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EVENTS

SR NO	NAME OF EVENT	DATE OF CONDUCTION	RESOURCE PERSON	EVENT COORDINATOR
1	Career Opportunity in GRE/TOFEL Exam & Study Abroad	5/7/2021	Mr. Amit Gore	G.P.Dhomse
2	Business Intelligence	24/7/2021	Mr Abhijeet Dixit	R. R. Bhandari
3	Webinar on Presentation Skills	16/8/2021	Mr.Shrikan t Karode	G.P.Dhomse
4	Digital Mind & Metrics Wokshop	21/8/2021	Mr.Vikas Gadiya	G.P.Dhomse
5	Webinar on Career Opportunity in Data Science	25/8/2021	Ms.Rupali Kulkarni	G.P.Dhomse
6	Webinar on Recent TRends in Computer and IT Sector	3/9/2021	Mrs. Ankita Chordia Sancheti	K.M. Sanghavi
7	CentOS Installation & REDHAT Certification	4/9/2021	Mr. Sagar Ikhankar	R. R. Bhandari/ G.P.Dhomse/ Swati Sinha
8	How to Earn Money at Freelancer.com	15/9/2021	Mr. Mayur Munot	G.P.Dhomse



EVENTS

Sr No	Name of Event	Date of Conduction	Resource Person	Event Coordinator
9	Parents Teacher Meet	14/9/2021	All Parents	A. J. Shakadwipi
10	Industry 4.0	24/9/2021	Mrs. Premlata Misra	S.V. Sinha









SNJB's Late Sau K B Jain College of Engineering Department of Computer Engineering PRESENTS

LIVE WEBINAR ON

How to get Job after MS in USA

Day: Saturday Date: 28 August 2021
Time: 11 AM to 12.30 PM

Ms. Rachana Bumb Data Scientist Avery Dennison California USA

> Dr. M. R. Sanghavi Vice-Principal & HOD (Comp/IT)

Dr. M. D. Kokate Principal







Mr. Mayur Munot Software Developer Aurus Tech Pvt Ltd, Pune

SNJB's

Late Sau. K. B. Jain College of Engineering
Department of Computer Engineering
Presents

LIVE WEBINAR ON

Webinar on How to Earn Money at Freelancer.com

Day: Monday Date: 6th September 2021
Time: 12:30 PM to 2:00 PM

Dr. M. R. Sanghavi Vice-Principal & HOD (Comp/IT) Dr. M. D. Kokate Principal



SNJB's

Late Sau. K. B. Jain College of Engineering
Department of Computer Engineering
Presents



LIVE WEBINAR ON

Workshop on CentOS Installation & REDHAT
Certification

Day: Saturday Date: 4th September 2021

Time: 1 PM to 230 PM

Mr. Sagar Ikhankar Senior Technical Support Engineer Veritas Technologies LLC, Pune

> Dr. M. R. Sanghavi Vice-Principal & HOD (Comp/IT)

Dr. M. D. Kokate Principal





SNJB's Late Sau. K. B. Jain College of Engineering, Chandwad



Department of Computer Engineering with association of IT

and CSI Student Branch

Organizes

Webinar on



"Literature Survey"

Resource Person Dr. K.R. Nirmal Snjb Coe Chandwad.





SNJB's

Late Sau. Kantabai Bhavarlalji Jain

COLLEGE OF ENGINEERING

(DTE Code - EN5173)(Accredited with 'A' Grude by NAAC)
(Jain Gurukul) Neminagar, Chandwad - 423101, Dist. Nashik



Our Poojya Kakaji (Founder)

Department of Computer Engineering

Organizes Expert Talk on "Full Stack Development"

By

Date: 27/9/21 Time: 12:45 PM



Mr. Junaid Shaikh Co-Founder & CTO Coexis Tech Zoom Meeting Details ID: 838 6950 9798 Passcode: snjbcoe

Prof. N. P. Bora Coordinator Dr. M. R. Sanghavi HOD Of Computer



STUDENT'S ACHIEVEMENT



COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Patil Lalit Anil.

for successfully completing the course

Introduction to Python

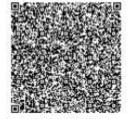
on Saturday, April 16th 2022



Congratulations! You make us proud!

Lea

Thirumala Archi Senior Vice President and Head Education, Training and Assessment (ETA) Infloors Limited



Issued on: Saturday, April 16th 2022
This certificate can be verified by scanning the QR code at https://verify.orwingspan.com



CERTIFICATE OF COMPLETION

Presented to

Sharma Sagar Ganesh

For successfully completing a free online course Python Programming

Provided by

Great Learning Academy

To early the certificate yest verify greatmening in CFF#7002



STUDENT'S ACHIEVEMENT





STUDENT'S PUBLICATION

Sr. No	Name of Student	Guide Name	Date of Publicati on	Title of Paper	Name of Conference/Journa l
1	Saurabh Kothari Raksha Ingale Sakshi Gangurde Varun Shah	Guide: M.R. Sanghavi Co Guide- Prof. L.I. Surana	15 & 16 Nov 2021	Digitized Meter and Invoice Generation	7th International Conference ICRTET 2021
2	1. Darshan Shelar Pranjal Sharma Sakshi Jain Swati Shinde	G.P. Dhomse	15 & 16 Nov 2021	A Survey Paper on Human Health Monitoring System and Its Application	7th International Conference ICRTET 2021
3	Shreya N Alizad Virti M Patni Sayali D Pisolkar Shubhangi R Jadhav	S.B. Ambhore	15 & 16 Nov 2021	Smart Restaurant Ordering System with Recommendati on	7th International Conference ICRTET 2021

ICRTET



Faculty Interaction Outside World

Sr. No	Name	Date	Topic Name	Name of College/Institute/Any other
1	Dr. M.R. Sanghavi	12/7/2021	Digital Transformation	Srivenkateshwaraa College of Engineering & Technology, Ariyur, Puduchery
2	Dr. M.R. Sanghavi	25/8/2021	Operating Systems	K. K.Wagh Institute of Engineering Education and Research, Nashik
3	Dr. M.R. Sanghavi	13/9/2021	Digital Transformation	AISSMS IOIT, Pune
4	Dr. M.R. Sanghavi	25/10/2021	Blog Creation using WordPress	Students & Faculties of SIEM CoE, Nashik
5	Dr. M.R. Sanghavi	9/12/2021	Effective Tools for Teachers	Dr. Panjabrao Deshmukh Polytechnic, Amravati, Maharashtra. of Polytechnic
6	Dr. K.R.Nirmal	29/11/2021	One Day Hands on Workshop on LaTex	Late G.N.Sapkal College of Engineering, Anjaneri, Nashik
7	Dr. K.R.Nirmal	3/12/2021	"LaTeX :Report writing tool, Overleaf"	NDMVP's KBT College of Engineering, Nashik
28	Bhavana A. Khivsara	23- 24/11/2021	Classification Techniques	Dr. D.Y. Patil COE, Pune
9	Bhavana A. Khivsara	06/12/2021	Advanced Analytics Tools & Techniques	AVCOE, Sangamner
10	Bhandari Rajiv R.	16/10/2021	Recent Trends in IoT	SIEM Nashik
11	Bhandari Rajiv R	11/11/2021	Hands on session on Wordpress Blog	AMT Skill Enhancement Institute, Nashik
12	Bhandari Rajiv R	27/12/2021	One Day Workshop on Open Source Computer Networking Tool	Matoshri College of Engineering & Research Centre, Nashik
13	Rajnor Dnyaneshwar S	27/09/2021	Message passing interface in High Performance Computing	Zeal Education Society's, Zeal College of Engineering & Research, Pune.
14	Dhomse Ghanshyam P.	30/11/2021	Cucumber BDD Framework	NDMVP College Of Engineering Nashik
15	Dhomse Ghanshyam P.	18/11/2021	Googling Google	AMT Skill Enhancement Institute, Nashik
16	Madhuri D. Kawade	2/12/2021	Google Doc	AMT Skill Enhancement Institute, Nashik
17	Nilam S. Khairnar	29/10/2021	"Understanding Polymorphism using C++"	ZEAL COE Narhe Pune



Faculty Interaction Outside World





ZEAL COLLEGE OF ENGINEERING &



STAFF ACHIEVMENTS

Prof. Khyati R. Nirmal has Awarded with PHD From KLEF, Vijaywada





STAFF PATENT



Prof. S. V. Sinha has published Patent on Internet at MAX (iMax) dated on 3/12/2021 with Application No: 202121036531A



PLACEMENTS

Sr No	Name of Student	Company Name	Designation
1	SHINDE SWATI DIPAK	TCS	System Engineer
2	CHAVAN GAURAV VIJAY	TCS, Wipro Hexaware Technologies, Infosys	System Engineer
3	GADE MAYURI DINKAR	TCS, Wipro Hexaware Capgemini, Infosys	Analyst
4	KATARIYA ARTI SURESH	TCS	System Engineer
5	LOHADE RUTIK RAVINDRA	TCS	System Engineer
6	MUNOT MRUNAL RISHABH	TCS	System Engineer
7	CHUTTARMUTHA ANAND SANJAY	Infosys	System Engineer
8	PATIL PRIYA SURESH	ATOS Syntel	System Engineer
9	SHEWALE ASHVINI JEEVAN	ZENSAR	System Engineer
10	PENDHARI JAYASHRI RAMESH	Infrasoft Technologies limited	System Engineer
11	SALUNKE NIKITA SANJAY	Wipro	Project Engineer



PLACEMENTS

Sr No	Name of Student	Company Name	Designation
12	SANT KARTIK SAHEBRAO	WIPRO	Project Engineer
13	SIDDHANT PAHADE	WIPRO	Project Engineer
14	PAGARIYA SANDESH SUDHIR	WIPRO	Project Engineer
15	KELHE AKSHAY MOHAN	WIPRO	Project Engineer
16	KELHE ROHAN MOHAN	WIPRO	Project Engineer
17	SHELAR DARSHAN PRADIP	WIPRO	Project Engineer
18	AHER ARCHANA RAJARAM	WIPRO	Project Engineer
19	JADHAV SHUBHANGI RAJENDRA	Capgemini	Project Engineer
20	BABHALE SHARVARI SANJIV	ZENSAR	Project Engineer
21	SAMKIT NITINRAJ KOTHARI	Hexaware Technologies	Graduate Engineer Trainee
22	WYAVHARE AKASH	ZENCAD	Software
22	RAJENDRA	ZENSAR	Developer



R RECRUITER



Capgemun









PLACED STUDENTS

ALUMNI CORNER



KRISH JAIN Computer 2020





SECURED ADMISSION IN
MS DATA SCIENCE & ANALYTICS



ALUMNI CORNER



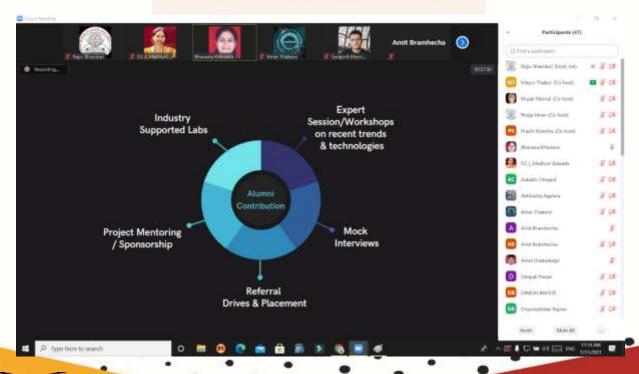






ALUMNI MEET







MEDIA AND COVERAGE



नाशिक' जिल्हा पुलआउट 18-11-2021

अभियांत्रिकी महाविद्यालयातील 9६ विद्यार्थ्यांना बहुराष्ट्रीय कंपनीत प्लेसमेंट

प्रतिनिधी।चांदवड

येथील नेमिनाथ जैन ब्रह्मचर्याश्रम संचलित स्व. सौ. कांताबाई भवरलालजी अभियांत्रिकी महाविद्यालयाच्या शैक्षणिक वर्ष २०२२ मध्ये शिक्षण असलेल्या तब्बल विद्यार्थ्यांची टाटा कन्सल्टन्सी सर्व्हिसेस (टीसीएस) बहराष्ट्रीय कंपनीत प्लेसमेंटद्वारे निवड झाली आहे. यामुळे विद्यार्थी व पालकांमध्ये आनंदाचे व उत्साहाचे वातावरण निर्माण झाले असून इतर विद्यार्थ्यांचेही मनोबल उंचावले आहे.

याविषयी अधिक माहिती देताना प्राचार्य डॉ. एम. डी. कोकाटे यांनी सांगितले की, स्वाती शिंदे या संगणक शास्त्र शाखेच्या विद्यार्थिनीला सिस्टिम इंजिनियर पदासाठी सुमारे ७ लाख प्रतिवर्ष पॅकेजवर तर १५ विद्यार्थ्यांची असिस्टंट सिस्टिम इंजिनियर म्हणून तीन लाख ६० हजार रुपयांच्या पॅकेजवर नियुक्ती करण्यात येणार

आहे. १५ विद्यार्थ्यांमध्ये अंतिम वर्ष संगणक अभियांत्रिकीचे आरती कटारिया, गौरव चव्हाण, मयुरी गाडे, अश्विनी शेवाळे, मृणाल मुनोत, ऋतिक लोहाडे, प्रिया पाटील तर माहिती व तंत्रज्ञान विभागाचे किरण गायकवाड, प्रसाद मांडे, करिष्मा कोठारी, पल्लवी आहेर, प्रणव देवरे, तेजल तिडके व यंत्र अभियांत्रिकीचे जिग्नेश आहिरे व जयंत पवार यांची निवड झालेली आहे. यशाबद्दल विद्यार्थ्यांचे शिक्षक व कर्मचारी यांनी अभिनंदन केले.



लोक्समत

प्रा. ख्याती निर्मल यांना पीएच.डी.

चांदवड : येथील श्री. नेमिनाथ जैन



ब्रह्मचर्याश्रम संचलित सौ. कांताबाई जैन अभियांत्रिकी महा-विद्यालयाच्या

संगणक विभागातील सहायक प्रा. ख्याती निर्मल यांनी नुकतेच के. एल. विद्यापीठ, विजयवाडा आंध्र प्रदेशची पीएच.डी. पदवी संपादन केली. त्यांनी इम्प्रोविंग अँड ऑप्टिमायझिंग के-प्रोटोटाइप क्लस्टरिंग अल्गोरिदम यजिय क्रिञ्चचेन्सी डिससिमिलॅरिटी मेजरमेंट अँड मॅप या विषयावर रिड्युसिंग प्रोग्राम संशोधन प्रबंध सादर केला होता. त्यांना प्राचार्य हॉ. एम. डी. कोकाटे, उपप्राचार्य व संगणक विभागप्रमुख डॉ. महेश संघवी, के, एल, विद्यापीठाचे मार्गदर्शक डॉ. के. वही. सत्यनारायण यांचे मार्गदर्शन लाभले. या यशाबद्दल विश्वस्त समितीचे बेबीलाल 3762781 दिनेशकुमार लोढा, जवाहरलाल आबड, प्रबंध समितीचे अजितकुमार सुराणा, अरविंदकुमार भन्साळी, तसेच झुंबरलाल भंडारी व सुनीलकुमार चोपडा, आदींनी त्यांचा सत्कार केला.

Helio Nashik Gramin Page No. 3 Sep 07, 2021 Powered by: erelego.com



Robotics and Artificial Intelligence

Ms. Prachi Kotecha and Mr. Mayur Thakur (TE Computer)

Robotics is a separate entity in Artificial Intelligence that helps study the creation of intelligent robots or machines. Robotics combines electrical engineering, mechanical engineering and computer science & engineering as they have mechanical construction, electrical component and programmed with programming language. Although, Robotics and Artificial Intelligence both have different objectives and applications, but most people treat robotics as a subset of Artificial Intelligence (AI). Robot machines look very similar to humans, and also, they can perform like humans, if enabled with AI.

In earlier days, robotic applications were very limited, but now they have become smarter and more efficient by combining with Artificial Intelligence. AI has played a crucial role in the industrial sector by replacing humans in terms of productivity and quality.



What is Artificial Intelligence?

Artificial Intelligence is defined as the branch of Computer Science & Engineering, which deals with creating intelligent machines that perform like humans. Artificial Intelligence helps to enable machines to sense, comprehend, act and learn human like activities.

There are mainly 4 types of Artificial Intelligence:

 $reactive\ machines, limited\ memory, theory\ of\ mind, and\ self-awareness.$

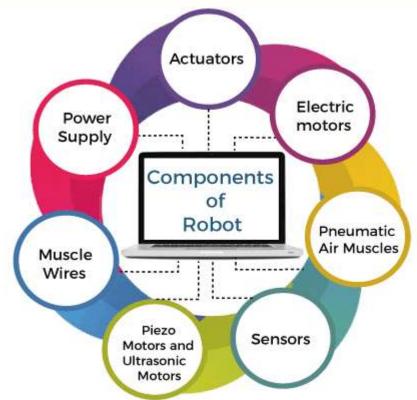
What is a robot?

A robot is a machine that looks like a human, and is capable of performing out of box actions and replicating certain human movements automatically by means of commands given to it using programming



Robotics and Artificial Intelligence

Components of Robot:



Applications of Robotics

Robotics have different application areas. Some of the important applications domains of robotics are as follows:

Robotics in defence sectors: The defence sector is undoubtedly the one of the main parts of any country. Each country wants their defence system to be strong. Robots help to approach inaccessible and dangerous zone during war. DRDO has developed a robot named *Daksh* to destroy life-threatening objects safely. They help soldiers to remain safe and deployed by the military in combat scenarios. Besides combat support, robots are also deployed in *anti-submarine operations, fire support, battle damage management, strike missions, and*

laying machines. **Robotics in Medical sectors:** Robots also help in various medical fields such as laparoscopy, neurosurgery orthonaedic surgery disinfecting rooms, dispensing medication, and various others.

neurosurgery, orthopaedic surgery, disinfecting rooms, dispensing medication, and various other medical domains.

Robotics in Industrial Sector: Robots are used in various industrial manufacturing industries such as cutting, welding, assembly, disassembly, pick and place for printed circuit boards, packaging & labelling, palletizing, product inspection & testing, colour coating, drilling, polishing and handling the materials.



Robotics and Artificial Intelligence

AI technology used in Robotics

1. Computer Vision

Robots can also see, and this is possible by one of the popular Artificial Intelligence technologies named Computer vision. *Computer Vision* plays a crucial role in all industries like health, entertainment, medical, military, mining, etc.

Computer Vision is an important domain of Artificial Intelligence that helps in extracting meaningful information from images, videos and visual inputs and take action accordingly.

2. Natural Language Processing

NLP (Natural Languages Processing) can be used to give voice commands to AI robots. It creates a strong human-robot interaction. NLP is a specific area of Artificial Intelligence that enables the communication between humans and robots. Through the NLP technique, the robot can understand and reproduce human language. Some robots are equipped with NLP so that we can't differentiate between humans and robots.

3. Edge Computing

Edge computing in robots is defined as a service provider of robot integration, testing, design and simulation. Edge computing in robotics provides better data management, lower connectivity cost, better security practices, more reliable and uninterrupted connection.

4. Complex Event Process

Complex event processing (CEP) is a concept that helps us to understand the processing of multiple events in real time. An event is described as a Change of State, and one or more events combine to define a Complex event.

5. Transfer Learning and AI

This is the technique used to solve a problem with the help of another problem that is already solved. In Transfer learning technique, knowledge gained from solving one problem can be implement to solve related problem. We can understand it with an example such as the model used for identifying a circle shape can also be used to identify a square shape.

