# JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES (An Autonomous Institution)

The following list of Value Added courses organized by the Institution with Brochure, contents and outcomes for the academic year 2019-20

S.NO	NAME OF THE VALUE ADDED COURSE
1	Artificial Intelligence In Robotics
2	Machine Learning for signal Processing
3	Data Acquisition System
4	Power System Stability Implement by Using Fact Devices
5	Ethical Hacking & Cyber Security
6	Android Application Development
7	Enhancement of SAP Software for Civil Engineers
8	Enhancement of E-LABs Software for Civil Engineers
9	Robotics
10	Design & Fabrication of PCB
11	I Week Workshop on Robotics and Its Applications
12	Brain wave Robotics & its Applications
13	R.F. Design Using Latest CMOS Techniques
14	Java Fundamental and Data Base Management Training



# JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES

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# **ARTIFICIAL INTELLIGENCE IN ROBOTICS**





# **ARTIFICIAL INTELLIGENCE IN ROBOTICS**

# **CONTENTS:**

- 1. Artificial intelligence.
- 2. Data science.
- 3. Computer science.
- 4. Mathematics.
- 5. Statistics.
- 6. Data mining.
- 7. Deep learning.
- 8. Natural Language Processing.



# **ARTIFICIAL INTELLIGENCE IN ROBOTICS**

#### **COURSE OUTCOMES**

- 1. Differentiate between a rudimentary problem and AI problem, it's Characteristics and problem solving Techniques.
- 2. Determine and evaluate the various search strategies.
- 3. Compare and contrast the various "knowledge representation" schemes of AI.
- 4. Understand and analyze the various reasoning techniques involved in solving AI problems.
- 5. Understand the different learning techniques, apply the AI techniques to solve the real world problems.

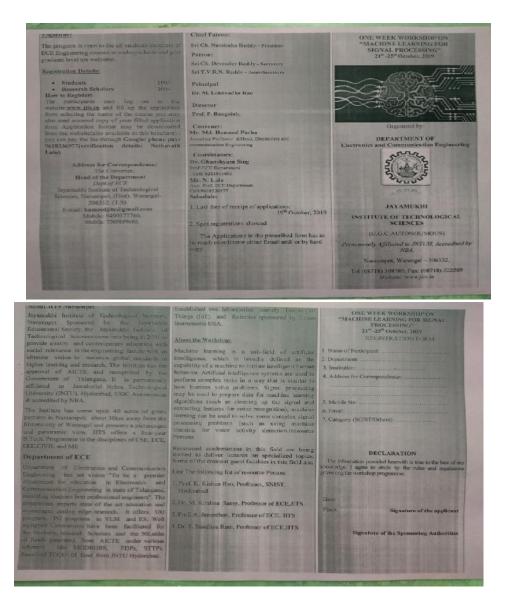


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#### MACHINE LEARNING FOR SIGNAL PROCESSING





# MACHINE LEARNING FOR SIGNAL PROCESSING

#### **CONTENTS:**

- 1. Linear Algebra Refresher
- 2. Probability Theory Refresher
- 3. Digital Signal Processing Refresher
- 4. Machine Learning basics
  - a. Supervised and Unsupervised learning
  - b. Classification and Regression (linear models)
  - c. Evaluation metrics
- 5. Probability Models and Expectation Maximization Algorithm
  - a. Gaussian Mixture Models
- 6. Neural Networks and Deep Learning
  - a. Multi-class classification and Multi-label classification
  - b. Different kinds of non-linearities, objective functions and learning methods
- 7. ML for Audio Classification
  - a. Time Series Analysis, LSTMs and CNNs
- 8. ML for Speech Recognition
  - a. Hidden Markov Models, Finite State Transducers and Dynamic Programming
- 9. ML for Music Information Retrieval
  - a. Latent Variable Models, Matrix Factorization and Signal Separation
- 10. ML for Image Processing
  - a. Transfer Learning, Attention models, Attribute-based learning
- 11. ML for Communication
  - a. Deep learning for wireless applications



# MACHINE LEARNING FOR SIGNAL PROCESSING

# **COURSE OUTCOMES**

- **1.**Remembering and understand the various machine learning methods.
- 2. Understand the Local models of machine learning concepts
- 3. Characterize the machine learning algorithms as supervised learning and unsupervised learning and Apply and analyze the various algorithms of supervised and unsupervised learning
- 4. Analyze the concept of neural networks for learning linear and non-linear activation functions
- 5. Learn the concepts in Bayesian analysis from probability models and methods



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# DATA ACQUISITION SYSTEM

# **CONTENTS LIST:**

Introduction to Data Acquisition system
 Digital to Analog and Analog to Digital conversion
 Data acquisition and manipulation
 Op amp applications & frequency Response
 A/D s in microcontroller
 Data sampling and recording
 A/D s in MC9S12DPS56B
 68HC11 Analog I/O
 Instrumentation and product Testing
 Applications of Data acquisition system



# DATA ACQUISITION SYSTEM

#### **COURSE OUTCOMES:**

•

- 1. Identify digital control and data acquisition system components.
- 2. Determine the OP amp applications and frequency Response
- 3. Determine the Data acquisition and manipulation
- 4. Select A/D s in microcontroller
- 5. Design and test Data acquisition system circuit



A Workshop on Power System Stability Implement by Using Fact Devices

# **Brochure:**



Engineering Department, VCE, WGL 2. Dr. A. Naraina Professor - Electrical and Electronics

Professor - Electrical and Electro

1. Dr. P.Sodanandam



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Journals



# A Workshop on Power System Stability Implement by Using Fact Devices

#### Contents:

- 1. Introduction to Power System Stability Improvement By Using Facts Devices
- 2. Static power-electronic devices
- 3. AC transmission networks
- 4. Power transfer capability of transmission line
- 5. More Effective Use of Transmission Corridors and Increased Loading
- 6. Power quality improvement
- 7. Future advantages of power system stability improvement
- 8. Conclusion



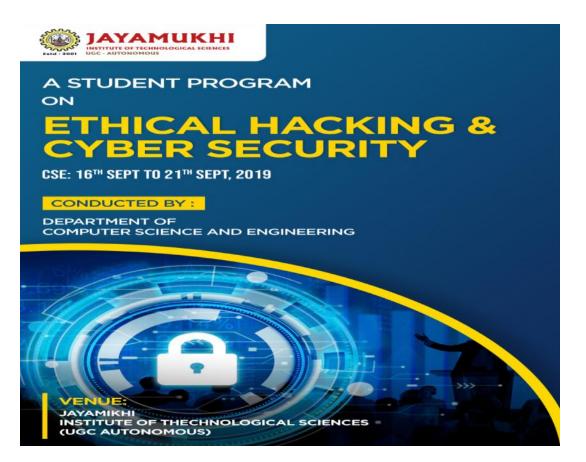
# A Workshop on Power System Stability Implement by Using Fact Devices

# **Outcomes**:

- By the use of FACTS devices high power transfer capacity is increased at the same time line tripling faults are also reduces.
- > New industries want good quality of electric supply.
- Constant voltage with less fluctuation and desired frequency as mentioned by electricity department
- > These devices are also employed for congestion management and loss optimization.



#### **Ethical Hacking & Cyber Security**





# Ethical Hacking & Cyber Security

#### **Course Content:**

- Introduction:Hacking Impacts, The Hacker Framework: Planning the test, Sound Operations, Reconnaissance, Enumeration,
- Vulnerability Analysis, Exploitation,
- > Final Analysis, Deliverable, Integration Information Security Models:
- Computer Security, Network Security, Service Security,
- > Application Security, Security Architecture Information Security Program:
- The Business Perspective: Business Objectives, Security Policy, Previous Test Results, Business Challenges Planning for a Controlled Attack: Inherent Limitations, Imposed Limitations,
- Timing is Everything, Attack Type, Source Point, Required Knowledge, Multi-Phased Attacks, Teaming and Attack Structure, Engagement Planner,
- > The Right Security Consultant, The Tester, Logistics, Intermediates, Law Enforcement
- Preparing for a Hack:Technical Preparation, Managing the Engagement Reconnaissance: Social Engineering, Physical Security, Internet Reconnaissance



# Ethical Hacking & Cyber Security

# **Course Outcomes:**

- 1. Gain the knowledge of the use and availability of tools to support an ethical hack
- 2. Gain the knowledge of interpreting the results of a controlled attack
- 3. Understand the role of politics, inherent and imposed limitations and metrics for planning of a test
- 4. Comprehend the dangers associated with penetration testing

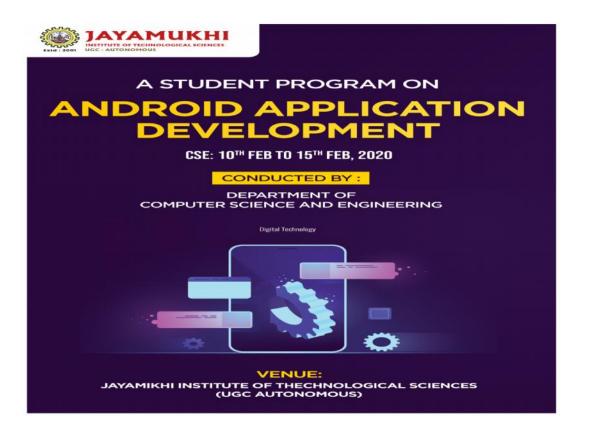


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#### Android Application Development





# Android Application Development

#### **Course Content**

- Basics of Android?
- Importance and scope
- Android Architecture
- Android Stack
- o Android Applications Structure
- Android Emulator
- Android SDK
- Overview of Android Studio
- Android and File Structure
- Android Virtual Device Manager
- o DDMS
- LogCat
- Eclipse and SDK installation
- AVD creation
- Project Structure
- Creating a Project
- Working with the AndroidManifest.xml
- Using the log system Activities
- Application context
- Intents
- Activity life cycle
- Supporting multiple screen sizes



# Android Application Development

#### **Course Outcomes:**

- 1. Build enterprise level mobile applications with Kotlin on Android
- 2. Understand both the basic and advanced concepts of Kotlin
- 3. Understand why use Kotlin over Java
- 4. Install and configure Android Studio
- 5. Explain and use key Android programming concepts



Enhancement of SAP Software for Civil Engineer

Sponsoring & Forwarding	About JITS Narsampet:	ONE WEEK WORKSHOP ON
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# Enhancement of SAP Software for Civil Engineer

#### CONTENTS

- Introduction to Recent Advances in software and Importance of SAP Software of Construction Techniques
- Recent Advances in Software of Construction Methods
- Recent Advances in software of Construction Materials
- Introduction in software of Construction Management
- ✤ Importance of Construction Engineering in Recent Scenario of Indian Market.
- Foundation Engineering and its application to Construction Engineering.



Enhancement of SAP Software for Civil Engineer

# **COURSE OUT COMES**

- This workshop is students will get the hands-on with SAP Software. It is the only software which provides complete Structural details.
- This workshop aims the full range of Structural details, Construction processes, building services and Structural Drawings.
- The lecture focus on the real-time work-related concepts, issues, which is enhanced by the inputs of the instructor's practical experience.
- It Gives Knowledge to Civil Engineers, Entry or senior level, who wishes to streamline their existing, knowledge to make a career in Structural planning for various building system.



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# Enhancement of E-TAB Software for Civil Engineer



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	Chief Patron:	JAYAMUKHI
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Knowledge to Civil Engineers, Entry or senior level,	Sri Ch.Devender Reddy - Secretary	Website: www.fits.in
who wishes to streamline their existing,	Sri T.V.R.N.Reddy Joint Secretary	1. Full Name:
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# Enhancement of E-TAB Software for Civil Engineer

# CONTENTS

- Introduction to Recent Advances in software of Construction Techniques
- Recent Advances in Software of Construction Methods
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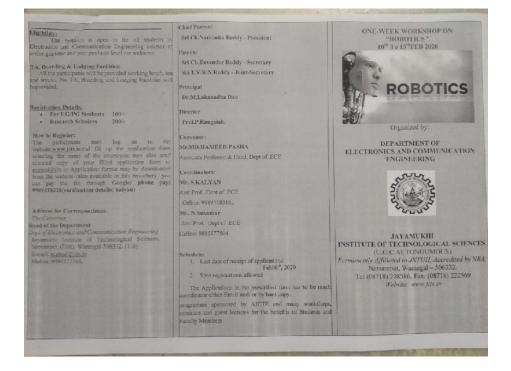


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#### ROBOTICS





# ROBOTICS

# List of Content:

- 1. Detail study on signal processing technique
- 2. Advance study on modulation technique.
- 3. Voice/speech Recognition
- 4. DC-motor
- 5. Arduino Programming
- 6. Design and fabrication of voice controlled robot
- 7. Bluetooth/ESP8266 Wi-Fi module technology



# ROBOTICS

# **Course outcomes:**

- 1. Understand the concepts of signal processing and modulation techniques.
- 2. Detail study on Voice/speech recognition and DC-Motor
- 3. Ability to understand the Arduino Programming concepts
- 4. Design and fabrication of various robots which is used in real world applications

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# **DESIGN & FABRICATION OF PCB**

#### The program is open to the all students of lectronics & Communication Engineering ourses at undergraduate and post graduate level re welcome.

tegistration Details:

ligibility;

Students Free
 Research Scholars Free

How to Register:

The participants may log on to the website<u>sww.its.in</u> and fill up the application from selecting the annu of the course you may also send sounced copy of your filled application from Application format may be downloaded from the website(also available la this Brochard).

Address for Carrespondence: The Convense: Head of the Department Depart #275 Jayamatkit to startner of Technological tenances, Narsampet, (Distr Wassing) 506732, (LS) Bernal: hanceoffics/genal.com Mobile: 9506830692, Sri Ch Narsimha Roddy - President Patron: Sri Ch Devender Reddy - Secretary

Sri T.V.R.N.Reddy - Joint-Secretary Principal Dr. M.Lokanadha Rao

Chief Patrun:

Director

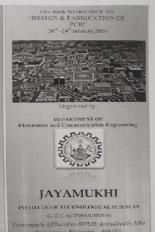
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Associate Profession & Hoad, ECE De Coordinator: Mrs.S.Sandhya Rani Assoc.Prof.LUE Depertment Ont. 9900073969, 9849820390, Ms.S.Priyanka AsscholleCE Department Oct. 9841662002

Schedule: 1. Last date of receipt of applications: 15° January, 2020

2. Spetregistrations allowed

The Applications in the prescribed form has a secret coordinator either Email and/ or by hard



Narsampet, Warangal 506332. Tel (08718) 208356. Fax: (08718) 222569 Webstle: www.jbs.m

#### About JITS Narsamper

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Prof.K.Kishan Rati, Professor, SNIST, Hydroxbad

De P. Krushna, Professor, of ECE, JITS

D. D. Marrishna, Sarry, Professor of E.C.L.1118
 Prof.M. Sushamh Baha, Professor of E.C.E., IITS
 Prof.A. Janarihan, Professor of E.C.E., IITS

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# **DESIGN & FABRICATION OF PCB**

# **CONTENTS:**

- 1.Introduction to Computer Aided Design of electronics
- 2.Fundamental of basic electronics
- Component identification
- Component symbols & their footprints
- 3.Schematic Design using OrCAD
- 4.Layout Design using CADSTAR
- 5.Design rule checking
- 6.Manufacturing exports

#### 7.Fabrication of PCB

8.Assembling & Testing



# **DESIGN & FABRICATION OF PCB**

# **COURSE OUTCOMES**

Upon the completion of this course, students will able to:

- CO 1 : Understand the various symbols, foot prints/packaging of components
- CO 2: Design schematic and layout of electronic circuits
- CO 3: Fabricate Printed Circuit Board
- CO 4: Evaluate and test the completed PCB



### ROBOTICS AND ITS APPLICATIONS

#### List of Content:

- 8. Detail study on signal processing technique
- 9. Advance study on modulation technique.
- 10. Voice/speech Recognition
- 11.DC-motor
- 12. Arduino Programming
- 13.Design and fabrication of voice controlled robot
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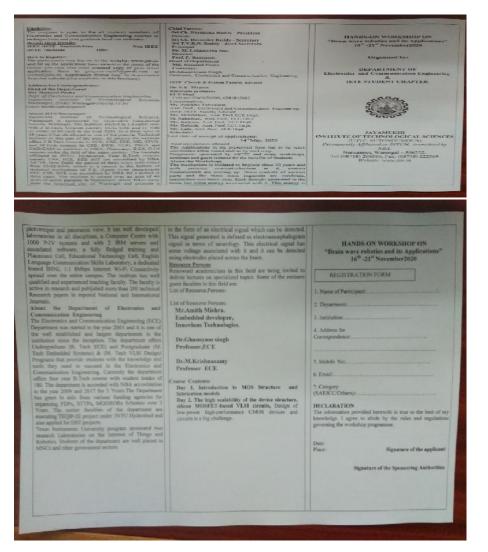
# ROBOTICS AND ITS APPLICATIONS

#### **Course outcomes:**

- 1. Understand the concepts of signal processing and modulation techniques.
- 5. Detail study on Voice/speech recognition and DC-Motor
- 6. Ability to understand the Arduino Programming concepts
- 7. Design and fabrication of various robots which is used in real world applications



# **BRAIN WAVE ROBOTICS & ITS APPLICATIONS**





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#### **BRAIN WAVE ROBOTICS & ITS APPLICATIONS**

# **CONTENTS:**

- 1. Introduction to Embedded Systems
- 2. Application of Embedded Systems in Robotics
- 3. Introduction to Robotics,,
- 4. Operator Interface,
- 5. Introduction to Arduino,
- 6. Artificial Intelligence
- 7. Introduction to IoT,
- 8. Robotics Applications
- 9. Machine Learning in Robotics,
- 10. Programming



# **BRAIN WAVE ROBOTICS & ITS APPLICATIONS**

#### **COUSRE OUTCOMES**

- 1. Able to apply robot fundamentals in designing various types of end effecters
- 2. Able to design end effectors required for Artificial Intelligence applications
- 3. Able to determine the robot trajectory to robotic motion by applying Robotic basics
- 4. Able to select Sensors for applications of Artificial Intelligence
- 5. Able to work on Real Time Hardware modules based on Industrial applications



Days 5 Workshop on Composite Materials



Days 5 Workshop on Composite Materials



# **R.F. DESIGN USING LATEST CMOS TECHNIQUES**

<ul> <li>Elizibilitzi         The program is open to the all student members         Electronics and communication Engineering courses at         undergraduate and post graduate level are verticents.         Replotration Flatibility         Elizibility         E</li></ul>	Chief Patron: Sri CL, Narsimha Reddy - President Patron: Sri CL, Narsimha Reddy - Secretary Sri TV, IN, Reddy - John-Secretary Principal Dr. M. Lokanatha Rao Director Prof. P. Rangaiah. Head of Department Md. Hamed Plaha Convence: Dr. Ghaadyam Singh Professor, Electronics and Communication Engineering ISTE Circuit & System Faculty Advisor Dr. S. K. Mastan Associate Professor ECE Dept Coll no: 59406/1900, 0281815605 Courdinators Ms. Zatishah Tabasum Asst. Frof, Electronics and Communication Engineering IEEE: STE Faculty Advisor Mr. M.Sridhar, Ast. Prof. ECE Dept. Mr. Rakyam, Asst. Prof. ECE Dept. Mr. Lain, Asst. Prof. Acce. Dept. Mr. Lain, Asst. Prof. Acce. Dept. Mr. Lain, Asst. Prof. ECE Dept. Mr. Lain, Asst. Prof. ECE Dept. Mr. Lain, Asst. Prof. Acce. Dept. Mr. Lain,	HANDS-ON WORKSHOP ON "R.F. DESIGN USING LATEST CAUGE TECHNIQUES" 11 <sup>10</sup> – 16 <sup>10</sup> November 2019 DEPARTMENT OF DEPARTMENT OF TECETORIES and Communication Engineering <u>A</u> ITTE STUDENT CHAPTER DEPARTMENT AUX AUX AUX DEPARTMENT OF TECHNOLOGICAL SCIENCES (UGC AUTONOLOGICAL SCIENCES (UGC AUTONOLO
AICTE, New Defiti for period of three years with effect from 10-02-2009, which is a model in the history of	seminars and guest lectures for the benefits of Students.About the Workshop:	
AICTE, New Delhi for period of three years with effect	seminars and given between for the benefits of Students. About the Workshop: The State-of-the-art design approaches for low-voltage radie frequency (RF) and millimeter-wave (nm-wave)	



# **R.F. DESIGN USING LATEST CMOS TECHNIQUES**

# **COURSE CONTENT**

- 1. Introduction to low-voltage radio frequency (RF) and millimeter-wave (mm-wave).
- 2. CMOS circuits. Effective design techniques at RF/mm-wave frequencies.
- 3. Including body biasing in fully depleted (FD) silicon-on-insulator (SOI) CMOS technologies and circuit topologies based on integrated reactive components.
- 4. Application of low-voltage design techniques is discussed for the main RF/mm-wave circuit blocks, i.e., low-noise amplifiers.
- 5. Important contribution is also given by the body biasing approach, especially in fully depleted (FD) silicon-on-insulator (SOI) platforms
- 6. Main design tradeoffs. A crucial role in RF/mm-wave, low-voltage operation



# **R.F. DESIGN USING LATEST CMOS TECHNIQUES**

# **COURSE OUTCOMES**

- 1. Understanding electromagnetic waves is important to Develop Skills for an RF WPH system.
- 2. This workshop provides guidance in the RF Design field of various parameters that need to be evaluated, which decides the performance of a WPH Design.
- **3.** This workshop also helped clear concepts of low-power consumption electrical systems; power leakage during transmission may lead to energy insufficiency.
- **4.** Students got the opportunity to learn choosing the appropriate operation frequency to the application's requirement critically dictates the efficiency of the WPH system.
- **5.** The operation ranges also need to be specified. Long range (far-field) power harvesting or transmission requires high frequency such as 2.45, 5.24 GHz.
- **6.** Students learnt for safety issues, RF emission power and frequency must be considered carefully to avoid unwanted damages.



### Java Fundamental and Data Base Management Training

#### **Course Content:**

- What is Computer, Basic Applications of Computer; Concepts of Hardware and Software, Number System, Number System Conversion.
- Introduction to the C Language Algorithm, Pseudo code, Flow chart, Background, C Programs, Java Fundamental with Programming ,Identifiers, Data Types,
- > Variables, Constants, Input / Output, Operators (Arithmetic, relational, logical, bitwise etc
- Statements- Selection Statements (making decisions) if and switch statements,
- Repetition statements (loops)-while, for, do-while statements, Loop examples, other statements related to looping – break, continue, go to, Simple Java Program examples.



# Java Fundamental and Data Base Management Training

### **Course Outcomes:**

- 1. Understand computer basics.
- 2. Understand C and Java programming basics .
- 3. Understand binary number system.
- 4. Use different data types in a computer program.
- 5. Design programs involving decision structures, loops, arrays and functions.