# 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 2018-19

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# 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.



# JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES

UGC - AUTONOMOUS

Permanently Affiliated to JNTUH, Accredited by NBA, Recognised Under UGC 2 (f) & 12 (b)

NARSAMPET, WARANGAL - 506332

# **RECENT ADVANCES IN NEURAL NETWORK**

Participant in the second seco		
Electricity:	Chief Patron:	ONE WEEK WORKSHOP ON
Electronics and Communication Engineering courses at	Sri Ch.Narsimha Reddy - President	"RECENT ADVANCES IN NEURAL
undergraduate and post graduate level are welcome.		NETWORKS"
Registration Details:	Patron:	19 <sup>th</sup> to 24 <sup>th</sup> Nøvember 2018
Non IEEE /ISTE Students 100/-	Sri Ch.Devender Reddy - Secretary	The Garage Hand
How to Register:	Sri T.V.R.N.Reddy - Joint-Secretary	
The participants may log on to the website; www.jita.in	Principals	
and fill up the application form selecting the name of the	Tructual .	
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nethodifficies in Application format may be downloaded	Director:	S V Starting of the
Address for Correspondence:	ProLP,Rangalah.	E /s and the state
Head of the Department	Head of Denartment:	
Md.Hameed Pasha Dept. of Electronics and Communication Engineering	Mr. Md Hameed Pasha	
Invanuabi Institute of Technological Sciences,	Associative Professor Electronics and Communication	Organized by:
F-mult hodeesite@amail	Engineering	DEPARTMENT OF
About JITS Narsampet:	Convenor	Electronics and Communication Engineering
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MBA, Pharmacy, R.Ed, D.Ed courses under the fold of the same speciety. The frequence affiliated to DVT	Mrs. D.Supriya	INSTITUTE OF TECHNOLOGICAL SCIENCES
Hyderahud. Four B. Tech courses namely CSE, ECE,	Asst.Prof. Electronics and Communication Engineering	(U.G.C AUTONOUMOUS)
EEE &IT are accredited by NBA AICTE, New Delhi	Mrs.D.Supriya	Permanently Affiliated to JNTUH, Accredited by NBA,
which is a record in the history of technical institutions	bir.N.Lalu	Tel (08718) 208586, Fax: (08718) 222569
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# **RECENT ADVANCES IN NEURAL NETWORK**

# LIST OF CONTENTS:

- 1. Introduction to Neural Networks
- 2. Basic of recent advance neural networks
- 3. Feature application of Neural Networks
- 4. Recent Advances of Neaural Networks
- 5. A Neuro-Symbolic Hybrid Intelligent
- 6. Feature application of LeNet-5 architecture nueral network
- 7. Recent Advances in Neural Networks for Remote Sensing
- 8. LeNet-5 architecture
- 9. Feature application of neural networks
- 10. Computational and Theoretical Issues
- 11. Efficient Neural Network-Based Methodology for the Design of Multiple Classifiers
- 12. Application in a Large-Scale Handwritten Digit Recognition Problem
- 13. Design of Multiple Classifiers
- 14. Feature application A Neuro-Symbolic Hybrid Intelligent



# **RECENT ADVANCES IN NEURAL NETWORK**

# **COURSE OUTCOMES:**

- 1. Understand the context of neural networks and deep learning
- 2. Know how to use a neural network
- 3. Understand the data needs of deep learning
- 4. Have a working knowledge of neural networks and deep learning
- 5. Explore the parameters for neural networks



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NARSAMPET, WARANGAL - 506332

# ROBOTICS

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# ROBOTICS

# CONTENTS

- 1. Introduction to Robotics
- 2. Robotics an Educational Tool
- 3. Machine Learning in Robotics
- 4. Artificial Intelligence
- 5. Robotic and its Impact on Society
- 6. Mobility or locomotion
- 7. Manipulators & Effectors
- 8. Sensing & perception
- 9. Robotics involves design



# ROBOTICS

# **COUSRE OUTCOMES**

- 1. Ability to apply robot fundamentals in designing various types of end effecters
- 2. Ability to design end effectors required for different applications
- 3. Ability to formulated D-H matrices for forward kinematics problems & Develop dynamic equations for robotic dynamic problem.
- 4. Ability to determine the robot trajectory to robotic motion & Basics of Robot Language.
- 5. Ability to select the sensors depending upon robotic application & its uses in various areas.



# 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-linearity's, 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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## MACHINE LEARNING





# MACHINE LEARNING

# **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

# **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



# EMBEDDED SYSTEM WITH POWER SYSTEM CONTROL

REGISTRATION FORM
Name of Participant:
2. Designation:
3. Qualification:
5. Department
6. Institution/Industry
7. Address for Correspondence
8. Mobile No

9. Email. 10.Category (stscoeciocioeus)

### DECLARATION

The information provided herewith is true to the best of my knowledge. I agree to abide by the rules and regulations governing the workshop Program.

Date: Place: Signature of the applicant Registration Fee

100/-Stude Address for Correspondences

Mr. D. Rajani Kumar Department of Electrical and Electronics Engineering Jayamukhi Institute of Technological Sciences. Narsampet, (Dist): Warangal-506332. (T.S) E-Mail: <u>eeehod@jits in</u>

Jayamukhi Institute of Technological Sciences, Society, Warangal. The Institute of Technological Sciences, Narsampet is sponsored by Jayamukhi Educational Society, Warangal. The Institute is approved by AICTE and permanently affiliated to INTU, Hydenbad. The Institute started in a humble way with Three B.Tech. Courses namely ECE, CSE and IT with an intake of 60 each in the year 2001. In a short span of 19 years, it has developed as one of the premier Technical Institute in this part of the Telangana state. At present the institute offers 5 B. Tech Courses in ECE, CSE, EEE, ME, CIVIL and M. Tech courses in CSE, SWE, VLSI. Embedded Systems, PSCA and CAD/CAM in addition to MBA, Pharmacy, B. Ed, D. Ed courses under the fold of the same society. B. Tech courses namely EEE& ECE are accredited by NBA, New Delhi. The institution is recognized under UGC 2(f) & 12(b) and also got an AUTONOMOUS state by the UGC among technical institutions of Telangana State in this part of the region. The institute is spread over an area of 40 acres of

tures in Narsampet, about 30km away from th een pas historical city of Warangal and presents a picturesqui and panoramic view. It has well developed laboratories in all disciplines, a Computer Centre with 1000 latest computers with 3 IBM servers and associated software, a fully fledged training and Placement Cell, Educational Technology Cell, English Language Communication Skills Laboratory, a dedicated leased BSNL 100 Mips Internet Wi-Fi Connectivity spread over the entire campus. The institute has well qualified and experienced teaching faculty. The faculty is active in research and published more than 300 technical Research papers in reputed National and Internation Journals

Sri Ch. Narsimha Reddy - President

Sri Ch. Devender Reddy - Socretary Sri T.V.R.N. Reddy - Joint-Secretary Principal:

Dr.M. Lokanadha Rao

Chief Patron:

Prof.V. Rangaiah

Conveners: Mr. D. Rajani Kumar Associate Projessor & Head, Dept. of EEE Coordinator: Mr.S. Rasjith Kumar, Asst.Prof Dept. of EE Mobile: 491-9701296643

Mr.E.Manoj, Asst.Prof Dept of EEE Mobile: +91-8125396823 E-Mail: eechod@jits.in

### How to Register:

<u>How to keptiter</u>; The participants may log on to the website: <u>www jitt in</u> and fill up the application form selecting the name of the course you may also send scanned copy of your filled application form to ecched@jits.in on or before 6<sup>th</sup> April 2019. Application format may be downloaded from the website (also available in this Broucher)

> The Department of Electrical & Electronic ingineering was established in the year 2002. The current intake in UG program is 120 and PG program M.Tech (PSCA) is 24. The department is Accredited by NBA, New Delhi The department has dedicated and qualified aculty as per the norms of AICTE.The department has equipped with sophisticated laboratories. The department had already organized two AICTE sponsored two week DP program entitled "Soft Computing Techniques in Electrical Engineering" in the year 2010 with a grant of 7 Lakh and another DP entitled "Renowable Energy Sources integration to Power'Systems" in the year 201 with a grant of 4 Lakh .



A One Week Workshop On

JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES (An Autonemous Institution) ently Affiliated to JNTUH, accredited by NBA, recognized Under UGC 2(f) & 12(b))

Narsampet, Warangal (Rural) - 506332(T.S)

- > This webcast explores how Analog Device's Digital Power System Management ICs and LT power Play tool simplify power system design challenges by providing high-level integration and increased system reliability
- > In summary, an embedded control syst refers to the computer hardware und software which are physically embedded within a large industrial process or production system

### Resource Persons

Resource remain Renowmed academicians in this field are being invited to deliver fectures on specialized topics. Some of the eminent guest faculties in this field are: List of Resource Persons: in the second

1. Dr. Yogesh Y.Pundalik

Professor - Electrical and Electroni Engineering Department. KITS(S), KMR 2. Dr.KBVSR Subrahmanyam Professor - Electrical and Electronics

Engineering Department. SREC, WGL





# Contents:

- 1. Introduction to Embedded System and Power System Control
- 2. Shunt compensation
- 3. Micro Controllers
- 4. Microprocessor based system
- 5. Embedded System with Applications Devices
- 6. Electronic calculators
- 8. Outcomes



# **Outcomes:**

- Furthermore, embedded systems are rapidly becoming a catalyst for change in the computing, data communications, telecommunications, industrial control, and power system control and entertainment sectors.
- > Automatic systems in any field will be useful and will save the people and organizations.
- New trends in embedded electronics will change how electronics are programmed and increase the impact of machine learning in technology.
- The future of embedded systems lies in the advancement of technologies that enable faster communications, heavy data storage capacities and highly interwoven connections among the devices.



# **BASIC COMPUTER PROGRAMMING**



A STUDENT PROGRAM

# BASIC COMPUTER PROGRAMMINING

CSE: 10<sup>™</sup> SEPT TO 15<sup>™</sup> SEPT, 2018

CONDUCTED BY :

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING





# **Basic Computer Programming**

## **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, Identifiers, Data Types, Variables, Constants, Input / Output, Operators(Arithmetic, relational, logical, bitwise etc.), Expressions, Precedence and Associatively, Expression Evaluation, Type conversions.

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 C Program examples.

Functions- Introduction to Structured Programming, Functions- basics, user defined functions, inter function communication(call by value, call by reference), Standard functions. Storage classes-auto, register, static, extern, scope rules, arrays to functions, recursive functions, example C programs.

Arrays– Basic concepts, one-dimensional arrays, two – dimensional arrays, multidimensional arrays, C programming examples



# **Course Outcomes:**

- 1. Understand computer basics.
- 2. Understand 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.
- 6. Identify the difference between call by value and call by reference



# JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES

UGC - AUTONOMOUS

Permanently Affiliated to JNTUH, Accredited by NBA, Recognised Under UGC 2 (f) & 12 (b) NARSAMPET, WARANGAL - 506332

## MS EXCEL TRAINING



### CSE: 07<sup>TH</sup> JAN TO 12<sup>TH</sup> JAN, 2019

CONDUCTED BY :

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### VENUE:

JAYAMIKHI INSTITUTE OF THECHNOLOGICAL SCIENCES (UGC AUTONOMOUS)



# **MS Excel Training**

# **Course Content:**

- MODULE 1 EXCEL BASICS (for Beginners) Getting Started with Excel, Data Entry, Data Editing, and Number Formatting Data Formatting, Working with Cells and Ranges in Excel, Managing Worksheets
- Module 2 EXCEL ESSENTIALS Introduction to Excel Tables, Auto-fill, Custom Lists, and Flash Fill, Number Formatting in Excel
- MODULE 3 EXCEL FORMULAS Excel Formula Basics, Logical Formulas in Excel, Math Formulas in Excel Lookup and Reference Formulas in Excel, Stats Formulas in Excel Text Formulas in Excel, Date and Time Formulas in Excel
- MODULE 4 DATA ANALYSIS Named Ranges in Excel, Data Validation in Excel, Data Sorting and Filtering in Excel Using Conditional Formatting in Excel
- MODULE 5 INTRODUCTION TO EXCEL CHARTING Introduction to Excel Charting, Advanced Excel Charting Examples, Dynamic Charts in Excel.



# **MS Excel Training**

# **Course Outcomes:**

- 1. Examine spreadsheet concepts and explore the Microsoft Office Excel environment.
- 2. Create, open and view a workbook.
- 3. Modify a worksheet and workbook.
- 4. Learn to use functions and formulas.
- 5. Create and edit charts and graphics.
- 6. Filter and sort table data.



# ENHANCEMENT OF SAP SOFTWARE FOR CIVIL ENGINEERS

### Sponsoring & Forwarding

This is to certify that Prof / Dr /Sri / Ms workin g as \_\_\_\_ the

Department me Department of is sponsered to attend ONE WEEK WORKSHOP ON ENHARCENENT OF E1-ASS SOFT WARE FCR CIVIL ENCANTERS 2016" Organized by jayramkkhi resitute of Technological Sciences, Narsamper, and Dist. Warangal from 20/05/2018 to 25/(6)/2018, in case the candidate is selected he/she sciall be permitted to attend the scarse

Date: person: Signature of the authorized Name Designation: (SEAL)

Regulation fee: Registration fee of Ro.1009/ has to be paid along with negistration form. It has to be paid in the form of crossed demand draft in fevor of Principal, Jayamukh Institute of Technological Sciences Narsampel' payable at Wommed

Schedule: 1. The Applications in the prescribed form after payment of fee has to reach the convenue either by e-mail and/or by hard copy on or before 346 October , 2018. 2. Selected candidate will be informed by e mail an 176 hourset 2019. on 17th August 2018.

Address for Correspondence: The Co ESSCE-2017 ESSCE-2017 Department of Civil Engineering Jayamukhi Institute of Tachnological Sciences, Narsampet (Dist): Warangal-506332 (T.S) E-Maik jitscivil@gmail.com

About J115 Narsampet Jayamucki Institute of Technological Sciences, Narsampet is sponosoed by Jayamucki Educational Scotety, Warangal. The Institute started in a humble way with Tunee RTech. Curarose ramwall FET, CSF and TL with an intakes of 60 each in the year 2011. In a short spar. of 15 years it has developed as one of the premier Technical Institute in this part of the state. At present the institute offers 5 b Tech Courses in CSF, SWF, VI SI, PSCA and CATU/CAM in dulition to MDA, Humrany, DEA, DEL course under the fished of the same society. The Institute outfliates to JNL, Hydrenbad, Force B Iech courses namely CGL, DEL, EEL course accredited by N&A AICTE New Dahli for period of J years with effect from 10-40-2000, which is a record in the history of technical institutions of TS. TS

The institute is spread over an area of 40 acres of green pastures in Narsampet, about 30km away from the historical city of Warangal and away trim the historical city of Warangal and presents a picturesque and pancramic view. It has well developed laboratorice in all disciplines, a Computer Corthe with 1000 PUV systems and will 2 IEM servers and associated software a fully fludged realising and Placoment Call, Educational Technology Cell. English Language Communication Skills Laboratory, a dedicated leased BSM. 13 8 MBs Internet Wi-Fi Connectivity spread over the entire campus. The institute has well quadified and experienced institute has well qualified and expresented taching faculty. The faculty is active in research and published more than 100 technical Research papers in reputed National and International Journals

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Jeinnals and international About CTVIL DEPARTMENT The Department of Civil Engineering was established in the year 2013. The current inlake in UG program is 126. The department has dedicated and qualified faculty as por the norms of AICE. The department has equipped with soplexistuted laboratories.



DEPARTMENT OF CIVIL ENGINEERING **JAYAMUKHI** Institute of Technological Sciences Narsampet, Warangel-56632 (T.S), INDIA. Tel (08718) 208586, Fax: (08718) 222569 Website: ucuru.jfts.in

11

Mobile: 9490530014

ABOUT THE COURSE: This course tilled ' F-TAPS Complete Course from Begarner to Pro' teaches you. ETADS is a highly efficient analysis and design program covoloped aspecially for building systems. It is loaded with an integrated system with an ability to tandle the largest and most complex building models and configurations. dels and configurations.

The lecture focus on the real-time work-related The latture focus on the real-time work-resided concepts, issues, which is enhanced by the inputs of the instructor's practical experience. It Gives Knowledge to Colif Engineers, Entry or sanior lavel, who wishes to streamline their existing, knowledge to imake a career in Structural planning for various building system.

### OURSE CONTENTS

- Complete knowledge of E-TABS.
   The software has powerful CAD-like
   drawing tools with a graphical and objectbased interface.
- + It increases the productivity of structura
- Coordinator: Miss.Ch.Shalini -Asst.Prof The course will help the candidates to acquire in-depth details about the different procedures and simplified analysis aspects of the design models.
   Export the designed data to excel for further manizing Committee
- Ms M SnKavya, Asst Prof Mr.S.Venkatesh, Asst.Prof
   Mr.Syed Samiullah, Asst.Prof
   Wr.DS Shiva Kumar, Asst.Prof calculations. Do preliminary design of structural members. Ms.A.Sindhuja, Asst.Prof.
- Eligibility: The put

Lightity: The program is for the faculty of AKCTE approved Engineering Collegge teaching and doing meansh in Civil Engineering **7.4.** Bounding & Lodging Facilities: No TA, Boanding and Lodging Facilities will be provided to the out station participants in the college hostisk. Local participants will be previded working landt tea and stacks along with other participants. rticipa

Resource Persona: Renowned acadomicians and rosearchen in this field are being invited to deive lactures on specialized toyles. Some of the varinent guest faculties in this field are. 1. Er-Shravan Kumar Project Manager. MS Tech IT Solutions Chief Pairon: Sri ChaNarsinaha Roddy - President Patron:	ONE WEEK WO "ENHARCEMIN SOFTWARE FOR CT 20#10 25# AU Institute of Techne Narsamper, Vanagaya Tel (09719) 208566, F Versus	RKSHOP ON ENT OF SAP IVIL ENGINEERS gast-2018 UKIII ological Sciences pass (T.5), INDIA. acc (08718) 222569 mature of the sector
Sri Ch.Devender Reddy - Secretary	10 00000 000000000000000000000000000000	
Sri T.V.R.N.Reddy - Joint-Secretary	I. Full Names	
Principal	2. Designation:	
Dr.M.Lokanadha Rao	3. Institute:	
Director		
Prof.P.Kangatah.	4. Qualification	
Cansonar	5. Date of Birth:	
Mr.Gulam Samdani-Head, CED	b. Address for	
Coordinator: Miss.Ch.Shalini "Asst Prof	Correspondence:	
Organizing Committee	Fmail:	
1 Ms M SnKavya, Asst Prof	Mobile:	
2. Mr.S.Venkatesh, Asst.Prof 1. Mr.Sved Samiullah, Asst.Prof	Fee: 1000-	
4 MrTDS Show Kumar, Aast Prof 5. Ms.A.Sindhuja, Asst.Prof 6. Mr.YM Punith - Asst.Prof	Mode of Payment:	
7. Ms H H Joice, Asst Prof 8. Ms H.Luxni, Asst.Prof. 9. Mr A.ShivShankar, Asst.Prof 10 Ms G.Swathi, Asst.Prof 11.Mr.L.Naveen, Asst.Prof	This is to be certify that the information given by me is correct to the best of my knowledge.	
	Date.	Signature.

25



# ENHANCEMENT OF SAP SOFTWARE FOR CIVIL ENGINEERS

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 ENGINEERS

# 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.



# ENHANCEMENT OF E-TABS SOFTWARE FOR CIVIL ENGINEERS

### Sponsoring & Forwarding

This is to certify that Prof./ Dr./Sri./Ms workin

g as the Department is sponso ONE WEEK WORKSHOP attend CN "ENHANCEMENT OF E-TABS SOFTWARE FOR CIVIL ENCINEERS 2018" Organized by ayamukhi institute of Technological Sciences, Narsampet, and Dist. Warengel from 07/10/2018 to 12/10/2018, In case the candidate is selected he/she shall be permitted to attend the course.

Signature of the authorized Data person Name: Designation: (5EAL)

Registration for: Kegistration fee of Ks.1003/- has to be paid along with registration form. It has to be paid in the form of enseed domand dust in favor of Francipal, payamukhi Institute of Technological Sciences Narsampet' payable at Waranzal.

Schedure: 1. The Applications in the prescribed form after payment of fee has to reach the convenor either by e-mail and/or by hard copy on or before 04<sup>th</sup> October, 2018. 2. Selected candidate will be informed by e-mail on 05th October, 2017.

Address for Correspondence: The Con ESSCE-2018 Department of Civil Engineering ayamukhi Institute of Technological Sciences

payamutru institute of Technological Sciences, Narsampot (Dist): Warangal-506332. (T.S) E-Mail: jitscivil@gmail.com Mobile: 9490630014

About J115 Narsampet: Jayamukki Institute of Technological Sciences, Narampet is spensoroi by Jayamukhi Educational Sockey, Waanagal, The Institute started in a hamide way with Three B.Tech Courses name yECE CSE and II with an indake of 60 each in flar year 2001, hi a short span of 15 years if has devaloped as one of the premier Technical Institute in this part of the state. At present the institute of the S Brach Courses in ECE, CSF, FER, WE, CVIII, and MT&h-courses in ECE, CSF, FER, WE, CVIII, and CAD/CAM in N.E.C. SN, EEP, MP, UNIL and M. LWICHURSEN, C.S.E. SWE, VISJ, PSCA. and CAD/CAM. In addition to MBA, Pharmacy, B.Ed, D.Ed courses under the infl of the same society. The Institute diffiliand to JNTU, Hydrarabal. Your D.Tech. courses namely CSE, ECE, EEE & IT are accredited by NBA AICTE, New Delhi for period of 3 years with effect from 10-02-2009, which is a record in the history of sechnical institutions of T.S.

The institute is spread ever an area of 40 acres of green pastures in Narsampet, about 30km roway from the historical city of Warangal and presents a picturescue and paronamic view. It has well developed laboratories in all disciplines, a Computer Centre with 1000 PVF systems and with 2 BM servers and associated software, z fally fledged training and Placement Cell Educational Technology Cell, English Language Communication Stills Laboratory, a dedicated heared BSNL 11 & MUpe laterated Wi-F, Consectivity spread over the entire campus. The institute has well qualified and experienced techning faculty. The faculty is active in research and published more than 100 technical Research papers. In reputer National and International Journals. About CVIL DEPARTMENT The institute is spread over an area of 40

Journals. About CVII. DEPARTMENT The Department of Grif Ergenering was established in the year 2015 The current intake in: UG program is 120. The department has dedicated and qualified faculty as per the norms of AUCE. The department has equipped with sophistikated laboratories.

Chief Patron: Sri Ch.Narsimha Reddy - President

Sri Ch.Devender Reddy - Secretary Sri T.V.R.N.Reddy - Joint-Secretary

Convener: Ar.Gulam Samdani- Hoad, CED

Miss.Ch.Shalini -Ass.Prof

Organizing Committee:

1. Ms.M.SriKavya, Asst.Prof 2. Mr.S.Venkatesh, Asst.Prof

10.Ms.G.Swathi, Asst.Prof 11.Mr.L.Naveen, Asst.Frof

Principal Dr.M.Lekanadha Rao

irector of.P.Rangaish,

loordinator:

atron:



Institute of Technological Sciences Narsampet, Warangai-90032 (T.S), INDIA. Tol (98718) 208586, Fax: (98718) 222569 Website: www.jits.in

ABOUT THE COURSE: This course tilled " E-TABS Complete Course From Beginner to Pro" teaches you ETABS is highly efficient analysis and design program developed appreciably for huirking systems. It hadded with an integrated system with an ability is added. andle the largest and most complex buildin todels and configurations.

The lecture focus on the real-time work-relate concepts issues, which is enhanced by the inputs of the instructor's practical asportiones. It Give Knewledge to Civil Engineers, Entry or senor leve who wishes to streamline their existin knowledge to make a career in Structural plannin tor various building system.

OURSE CONTENTS

- Complete knowledge of E-TAES. The software has powerful CAD-like drawing tools with a graphical and object-based interface
- · It increases the productivity of structure
- ingineers. \* The course will help the candidates to
- acquire in-depth details about the different procedures and simplified analysis aspects of
- the design models. Export the designed data to excel for hurther calculations.
- 2 Mr.S. Verikatesh Asse Prof S. Mr.Syed Samidlah, Asst.Prof I. Mr.DS Shiva Kemar, Asst.Prof S. Ms. X Burlin, Asst.Prof S. Mr. YM Punih Asst.Prof 7. Mr.B.H.Joice, Asst.Prof 7. Mr.B.H.Joice, Asst.Prof 9. Mr.A. ShivaShankar, Asst.Prof 9. Mar.A. ShivaShankar, Asst.Prof 9. Mar.A. ShivaShankar, Asst.Prof Do preliminary design of structural members Eligibility
- Eligibility: The program is for the faculty of AICHE expressed Engineering Colleges and ing and doing neoarch in Civil Engineering. **TA Bounding & Lodging Facilities** No TA, Dranding and Lodging Facilities will be provided to the out station participants in the college brothsk. Lecal participants will be provided working lunch, tea and snacks along with other participents.
- participants.

Renowned academicians and researchen n this field are being invited to delive ONE WEEK WORKSHOP ON "ENHANCEMENT OF E-TABS lectures on specialized topics. Some of the eminent guest faculties in this field are: 1. Er.Shravan Kumar Project Manager, MS Tech II Solutions SOFTWARE FOR CIVIL ENGINEERS 07th to 12th October-2018 **JAYAMUKHI** Institute of Technological Sciences Narsarpet, Warngat-59032 (T.5), INDIA. Tel (08718) 208586, Fax: (08718) 222569 Website: www.jits.in I. Full Names 2. Designation: 3. Institute: 4. Qualification: 5. Date of Birth: 6. Address for Correspondences Emails Mobile Fee: 1600/ Mode of Payments This is to be certify that the information giver is correct to the best of my knowledge Signature



# ENHANCEMENT OF E-TABS SOFTWARE FOR CIVIL ENGINEERS

COURSE CONTENTS

- Introduction to Recent Advances in 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 E-TABS SOFTWARE FOR CIVIL ENGINEERS

# COURSE OUT COMES

- This workshop is students will get the hands-on with E-Tabs Software. It is the only software which provides complete Structural details.
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- 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.



## **OPEN SOURCE SOLUTIONS FOR THE IOT**





# **OPEN SOURCE SOLUTIONS FOR THE IOT**

## LIST OF CONTENTS

- 1. Introduction to Internet of Things (IoT)
- 2. IoT Architecture
- 3. How to build an IoT product
- 4. Application of IoT technology, IoT Standards
- 5. Different requirements for implementation
- 6. Sensors & Interfacing
- 7. Software & Hardware platforms for IoT implementation
- 8. Major components in IoT implementation
- 9. Introduction to Arduino Hardware & IDE
- 10 .Introduction to Cloud
- 11. Uploading sensor data to Cloud using API's
- 12. Hardware, sensors, Embedded Systems
- 13. Data Visualization, Data Analytics, Plugins, Import & Export,
- 14. Home automation using Voice Commands & Bluetooth
- 15. Practicals Hands and Session



# **OPEN SOURCE SOLUTIONS FOR THE IOT**

# **COURSE OUTCOMES**

- 1. It is developed for data-intensive and real-time applications
- 2. Protocol agents like HTTP REST or MQTT to connect your IoT devices, gateways, or data services or build a missing vendor-specific API
- 3. developing a machine to machines (M2M) applications such as remote control
- 4. Create cloud services for smart products
- 5. Easy interface and necessary programming to control sensors, actuators, and controllers



# JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES

UGC - AUTONOMOUS

Permanently Affiliated to JNTUH, Accredited by NBA, Recognised Under UGC 2 (f) & 12 (b)

NARSAMPET, WARANGAL - 506332

## **BRAIN WAVE ROBOTICS**





# **BRAIN WAVE ROBOTICS**

# **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**

# **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



# CFD AND ITS APPLICATIOND

# **COURSE CONTENTS:**

- 1. Introduction to CFD using MATLAB and OpenFOAM
- 2. Advanced CFD for IC Engine Applications using CONVERGE
- 3. Introduction to GUI based CFD using ANSYS Fluent
- 4. Introduction to Aero-Thermal simulation using ANSYS Fluent
- 5. Advanced Aerodynamic Simulations using CONVERGE



# CFD AND ITS APPLICATIOND

# **COURSE OUTCOMES**:

- 1. Ability to write simple solvers and turbulence models in MATLAB and OpenFOAM framework
- 2. Ability to become an advanced user of ANSYS Fluent and pre/post-processing utilities
- 3. Ability to perform advanced meshing in ANSA
- 4. Ability to simulate and solve advanced CFD problems in different fields using CONVERGE
- 5. Understanding and improving engine calibration, performance and emission using GT-Power & GT-Suite



# **RECENT TRENDS IN FEA(FINITE ELEMENT ANALYSIS)**

# **COURSE CONTENTS:**

1.Introduction, comparison of FEM with other methods, GalerkinMethods. Rayleigh- Ritz method, shape functions and characteristics,

2.Two-dimensional problems using CST: FE modelling, isoparametricrepresentation, PE approach, element stiffness, force terms, stress

3. Isoparametric formulation: 4-noded quadrilateral and its shape functions, element stiffness matrix,

4.Beams and frames: finite element formulation, load vector, boundaryconsiderations, shear force and bending moment, and plane frames

5.Dynamic analysis and nonlinear FEA: formulation-solid body withdistributed mass, element mass matrices, evaluation of Eigen values and Eigen vectors for a stepped bar and a beam, introduction to non-linearproblems, geometric nonlinearity, material non linearity non-lineardynamic problems, analytical problems



# JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES

UGC - AUTONOMOUS

Permanently Affiliated to JNTUH, Accredited by NBA, Recognised Under UGC 2 (f) & 12 (b) NARSAMPET, WARANGAL - 506332

# **RECENT TRENDS IN FEA(FINITE ELEMENT ANALYSIS)**

COURSE OUTCOMES: At the end of the course, a student will be able to

CO1: apply direct stiffness, Rayleigh-Ritz, Galerkin method to solve engineering problems and outline the requirements forconvergence.

CO2: analyze linear 1D problems like bars and trusses; 2D structuralproblems using CST element and analyse the axi-symmetric problems with triangular elements.

CO3: write shape functions for 4 and 8 node quadrilateral, 6 nodetriangle elements and apply numerical integration to solve; 1Dand 2D; stiffness integrations.

CO4: solve linear 2D structural beams and frames problems; 1Dheatconduction and convection heat transfer problems.

CO5: evaluate the Eigenvalues and Eigenvectors for stepped bar andbeam, explain nonlinear geometric and material non linearity.



# JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES

UGC - AUTONOMOUS

Permanently Affiliated to JNTUH, Accredited by NBA, Recognised Under UGC 2 (f) & 12 (b)

NARSAMPET, WARANGAL - 506332

# INDUSTRIAL APPLICATIONS USING IOT





# INDUSTRIAL APPLICATIONS USING IOT

# **CONTENTS:**

- 1. Introduction to Internet of Things (IoT)
- 2. IoT Architecture
- 3. How to build an IoT product
- 4. Application of IoT technology, IoT Standards
- 5. Different requirements for implementation
- 6. Sensors & Interfacing
- 7. Software & Hardware platforms for IoT implementation
- 8. Major components in IoT implementation
- 9. Introduction to Arduino Hardware & IDE
- 10. Introduction to Cloud
- 11. Uploading sensor data to Cloud using API's
- 12. Hardware, sensors, Embedded Systems
- 13. Data Visualization, Data Analytics, Plugins, Import & Export,
- 14. Introduction to ESP8266 and NODE MCU firmware
- 15. Introduction to ESP8266 and NODE MCU firmware
- 16. Home automation using Voice Commands & Bluetooth
- 17. Practicals Hands and Session



# INDUSTRIAL APPLICATIONS USING IOT

# **COURSE OUTCOMES**:

Interpret the impact and challenges posed by IoT networks leading to new architectural models. Compare and contrast the deployment of smart objects and the technologies to connect them to network.

Appraise the role of IoT protocols for efficient network communication.

Elaborate the need for Data Analytics and Security in IoT.

Illustrate different sensor technologies for sensing real world entities and identify the applications of IoT in Industry.