

**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 2016-17

<b>S.NO</b>	<b>Name of the value added Courses</b>	<b>Page no</b>
1.	DNA sequencing applying for DSP	2-4
2.	Recent advances in NN	5-7
3.	Brain wave robotics	8-10
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6.	Critical thinking & problem solving	18-20
7.	Introduction to Computers	21-23
8.	Enhancement of sap software for civil engineers	24-27
9.	Enhancement of E-tabs software for civil engineers	28-31
10.	PCB design	32-34
11.	Machine Learning	35-37
12.	One Week Workshop on Design of Heat Exchangers	38-39
13.	5Day Workshop on Assembly & Disassembly of IC Engine	40-41




# JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES

UGC - AUTONOMOUS

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NARSAMPET, WARANGAL - 506332

## DNA Sequence by applying Digital Signal Processing

<p><b>Eligibility:</b> The program is open to the all students and Faculty members engaged in teaching Electronics and Communication Engineering courses at undergraduate and post graduate level are welcome.</p> <p><b>TA, Boarding &amp; Lodging Facilities:</b> All the participants will be provided working lunch, tea and snacks. No TA, Boarding and Lodging Facilities will be provided.</p> <p><b>Registration Details:</b> • IEEE /ISTE Students Free Non IEEE /ISTE Students 100/- <b>How to Register:</b> The participants may log on to the website <a href="http://www.jits.in">www.jits.in</a> and fill up the application form selecting the name of the course you may also send scanned copy of your filled application form to <a href="mailto:gshyamsingh2@gmail.com">gshyamsingh2@gmail.com</a> or <a href="mailto:ecchod@jits.in">ecchod@jits.in</a> Application format may be downloaded from the website(also available in this brochure).</p> <p><b>Address for Correspondence:</b> Head of the Department Md.Hameed Pasha Dept. of Electronics and Communication Engineering Jayamukhi Institute of Technological Sciences, Narsampet, (Dist): Warangal-506332, (T.S) E-mail: <a href="mailto:hodecejts@gmail">hodecejts@gmail</a></p> <p><b>About JITS Narsampet:</b> Jayamukhi Institute of Technological Sciences, Narsampet is sponsored by Jayamukhi Educational Society, Warangal. 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 state. At present the institute offers 5 B.Tech Courses in ECE, CSE, EEE, ME, CIVIL and M.Tech courses in CSE, SWE, VLSI, PSCA and CAD/CAM in addition to MBA, Pharmacy, B.Ed, D.Ed courses under the fold of the same society. The Institute affiliated to JNTU, Hyderabad. Four B.Tech courses namely CSE, ECE, EEE &amp; IT are accredited by NBA AICTE, New Delhi for period of three years with effect from 10-02-2009, which is a record in the history of technical institutions</p>	<p><b>Chief Patron:</b> Sri Ch.Narsimha Reddy - President</p> <p><b>Patron:</b> Sri Ch.Devender Reddy - Secretary Sri T.V.R.N.Reddy - Joint-Secretary</p> <p><b>Principal</b> Dr.M.Lokanadha Rao</p> <p><b>Director</b> Prof.P.Rangaiah, <b>Head of Department</b> Md.Hameed Pasha</p> <p><b>Convenor:</b> Dr.Ghanshyam Singh Professor Electronics and Communication Engineering</p> <p><b>Coordinators:</b> Ms. Zalekha Tabassum Asst.Prof Electronics and Communication Engineering IEEE /ISTE Faculty Advisor Dr.S.K.Mastan Associate professor ECE Dept Cellno: 9949676900, 6281815605</p> <p><b>Schedule:</b> 1. Last date of receipt of applications: nov 12<sup>th</sup>, 2016 2. Spot registrations allowed</p> <p>The Applications in the prescribed form has to be reach coordinator either Email and/ or by hard copy.</p>	<p>HANDS-ON WORKSHOP ON "DNA SEQUENCE BY APPLYING DIGITAL SIGNAL PROCESSING" 14<sup>th</sup>-19<sup>th</sup> november 2016</p> <p>Organized by: DEPARTMENT OF Electronics and Communication Engineering &amp; IETE STUDENT CHAPTER</p>  <p>JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES (U.G.C AUTONOMOUS) Permanently Affiliated to JNTUH, Accredited by NBA, Narsampet, Warangal - 506332. Tel (08718) 208586, Fax: (08718) 222569 Website: <a href="http://www.jits.in">www.jits.in</a></p> <p>HANDS-ON WORKSHOP on "DNA Sequence by applying Digital Signal Processing" 14<sup>th</sup>- 19<sup>th</sup> november 2016</p>
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<p>of T.S. Again three departments EEE,CSE,ECE was accredited by NBA for a period of threeyears. The Institute is spread over an area of 40acres of green pastures in Narsampet, about 30km away from the historical city of Warangal and presents a picturesque and panoramic view. It has well developed laboratories in all disciplines, a Computer Centre with 1000 P-IV systems andwith.</p> <p>2. IBM servers and associated software, a fully fledged training and Placement Cell, Educational Technology Cell, English Language Communication Skills Laboratory, a dedicated leased BSNL 1:1 8 Mbps 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 200 technical Research papers in reputed National and International Journals.</p> <p><b>About the Department of Electronics and Communication Engineering</b> The Electronics and Communication Engineering (ECE) Department was started in the year 2001 and it is one of the well established and largest departments in the institution since the inception. The department offers Undergraduate (B. Tech ECE) and Postgraduate (M. Tech Embedded Systems) &amp; (M. Tech VLSI Design) Programs that provide students with the knowledge and tools they need to succeed in the Electronics and Communication Engineering. Currently the department offers four year B.Tech course with student intake of 180. The department is accorded with NBA accreditation in the year 2009 and 2017 for 3 Years. The Department has grant in aids from various funding agencies for organizing FDPs, STTPs, MODROBs Schemes over 3 Years. The senior faculties of the department are executing TEQIP-III project under JNTU Hyderabad and also applied for DST projects.</p> <p>Texas Instruments University program sponsored two research Laboratories on the Internet of Things and Robotics. Students of the department are well placed in MNCs and other government sectors.</p>	<p>programmes sponsored by AICTE and many workshops, seminars and guest lectures for the benefits of Students and Faculty Members</p> <p><b>About the Workshop:</b> Recently there are greater advances in bioinformatics and genomic signal processing. Digital Signal Processing (DSP) applications in genomic sequence analysis have received great attention in recent years. New methods are being developed to analyze Deoxyribonucleic acid (DNA) sequences. In order to use DSP principles to analyze DNA sequences, the DNA sequences should be converted into numeric sequences. Then the DSP algorithms are used in DNA analysis. Discrete Fourier Transform (DFT), digital filtering, Discrete wavelet transform (DWT), Parametric modeling and entropy are some of the important DSP concepts used for DNA analysis. In this paper, we present a review of the DSP techniques used for DNA analysis. We have explained the required basics behind molecular biology. We have discussed about the applications of DSP in sequence analysis.</p> <p><b>Resource Persons</b> Renowned academicians in this field are being invited to deliver lectures on specialized topics. Some of the eminent guest faculties in this field are: List of Resource Persons: 1. Prof. A. Janardhan, Professor Of ECE, JITS 2. Mr. Dr. Ghanshyam Singh Professor, of ECE, JITS 3. Prof. K. Kishan Rao, Professor, SNIST, Hyderabad 4. Dr. T. Kishore Kumar, Professor ECE, NIT Warangal. 5. Dr. P. Krishna, Professor, of ECE, JITS 6. Dr. M. Krishna Samy, Professor of ECE, JITS 7. Prof. M. Sushanth Babu, Professor of ECE, JITS</p>	<p>REGISTRATION FORM</p> <p>1. Name of Participant:..... 2. Department:..... 3. Institution/Industry:..... 4. Address Institution/Industry:..... 5. Address for Correspondence:..... 6. Mobile No:..... 7. Email:..... 8. Category (SC/ST/OBC/Others):.....</p> <p><b>DECLARATION</b> The information provided herewith is true to the best of my knowledge. I agree to abide by the rules and regulations governing the workshop programme.</p> <p>Date:..... Place: <b>Signature of the applicant</b></p> <p><b>Signature of the Sponsoring Authorities</b></p>
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NARSAMPET, WARANGAL - 506332

## **DNA Sequence by applying Digital Signal Processing**

### **CONTENTS:**

- 1) Introduction of DNA
- 2) Recent advances of DNA Sequences
- 3) Future Application of DNA Sequences
- 4) Studies of biological sequence data and sequence alignment
- 5) Software programme on 'DNA Invariant' by Microsoft visual basic 6.0 tools
- 6) Signal processing for DNA Sequences
- 7) Numeric Representation and Applications of DSP in the Analysis of DNA
- 8) Discrete Fourier Transform, Digital Filters
- 9) DSP of a sequence X64775 using AR model (b) DSP of same using FT
- 10) DSP on Bioinformatics new field of Genomic Signal Processing (GSP)
- 11) Dsp Methods For Acceptors Splice Site Prediction
- 12) DSP tools that have been applied in analysis are addressed.
- 13) Application Of Digital Signal Processing In DNA Sequence



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## **DNA Sequence by applying Digital Signal Processing**

### **COURSE OUTCOMES:**

**Co1:** Can able to remember basics of DNA Sequence

**Co2:** Understand Studies of biological sequence data and sequence alignment

**Co3:** Analyse various parameter of DNA Numeric Representation and Applications of DSP

**Co4:** Can able to design various Application Of Digital Signal Processing In DNA Sequence



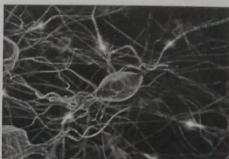

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## RECENT ADVANCES IN NEURAL NETWORK

<p><b>Eligibility:</b> The program is open to the all students in Electronics and Communication Engineering courses at undergraduate and post graduate level are welcome.</p> <p><b>Registration Details:</b> • Non IEEE /ISTE Students 100/-</p> <p><b>How to Register:</b> The participants may log on to the website: <a href="http://www.jits.in">www.jits.in</a> and fill up the application form selecting the name of the course; you may also send scanned copy of your filled application form to <a href="mailto:gshamsingh2@gmail.com">gshamsingh2@gmail.com</a> or <a href="mailto:ecchod@jits.in">ecchod@jits.in</a> Application format may be downloaded from the website(also available in this brochure).</p> <p><b>Address for Correspondence:</b> Head of the Department Md.Hameed Pasha Dept. of Electronics and Communication Engineering Jayamukhi Institute of Technological Sciences, Narsampet, (Dist) Warangal-506332, (T.S) E-mail: <a href="mailto:hodceejits@gmail.com">hodceejits@gmail.com</a></p> <p><b>About JITS Narsampet:</b> Jayamukhi Institute of Technological Sciences, Narsampet is sponsored by Jayamukhi Educational Society, Warangal. 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 state. At present the institute offers 5 B.Tech Courses in ECE, CSE, EEE, ME, CIVIL and M.Tech courses in CSE, SWE, VLSI, PSCA and CAD/CAM in addition to MBA, Pharmacy, B.Ed, D.Ed courses under the fold of the same society. The Institute affiliated to JNTU, Hyderabad. Four B.Tech courses namely CSE, ECE, EEE &amp; IT are accredited by NBA AICTE, New Delhi for period of three years with effect from 10-02-2009, which is a record in the history of technical institutions of T.S. Again three departments EEE,CSE,ECE was accredited by NBA for a period of three years. 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 presents a picturesque and panoramic view. It has well developed laboratories</p>	<p><b>Chief Patron:</b> Sri Ch.Narsimha Reddy - President</p> <p><b>Patron:</b> Sri Ch.Devender Reddy - Secretary Sri T.V.R.N.Reddy - Joint-Secretary</p> <p><b>Principal:</b> Dr.M.Lokanadha Rao</p> <p><b>Director:</b> Prof.P.Rangaiah,</p> <p><b>Head of Department:</b> Mr.Md.Hameed Pasha Associate Professor. Electronics and Communication Engineering</p> <p><b>Convener:</b> Mrs.Zulekha Tabassum Associate Professor. Electronics and Communication Engineering</p> <p><b>Coordinators:</b> Mrs. S.Gouthami Asst Prof Electronics and Communication Engineering IEEE /ISTE Faculty Advisor</p> <p><b>Mrs. D.Supriya</b> Asst.Prof. Electronics and Communication Engineering</p> <p><b>Mrs.M.Usha Rani</b> <b>Mr.M.Srihar</b> <b>Mrs. S.Kavya</b> <b>Mrs.B.Saritha</b> Asst.Prof. Electronics and Communication Engineering Cellno: 9392262457.</p>	<p>ONE WEEK WORKSHOP ON "RECENT ADVANCES IN NEURAL NETWORKS" 17<sup>th</sup> to 22<sup>nd</sup> April 2017</p>  <p>Organized by: DEPARTMENT OF Electronics and Communication Engineering &amp; IEEE STUDENT CHAPTER</p>  <p>JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES (U.G.C AUTONOMOUS) Permanently Affiliated to JNTUH, Accredited by NBA, Narsampet, Warangal - 506332. Tel (08718) 208586, Fax: (08718) 222569 Website: <a href="http://www.jits.in">www.jits.in</a></p>
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<p>in all disciplines, a Computer Centre with 1000 P-IV systems and with 2. IBM servers and associated software, a fully fledged training and Placement Cell, Educational Technology Cell, English Language Communication Skills Laboratory, a dedicated leased BSNL 1:1 8Mbps 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 200 technical Research papers in reputed National and International Journals.</p> <p><b>About the Department of Electronics and Communication Engineering</b> The Electronics and Communication Engineering (ECE) Department was started in the year 2001 and it is one of the well established and largest departments in the institution since the inception. The department offers Undergraduate (B. Tech ECE) and Postgraduate (M. Tech Embedded Systems) &amp; (M. Tech VLSI Design) Programs that provide students with the knowledge and tools they need to succeed in the Electronics and Communication Engineering. Currently the department offers four year B.Tech course with student intake of 180. The department is accorded with NBA accreditation in the year 2009 and 2017 for 3 Years.The Department has grant in aids from various funding agencies for organizing FDPs, STTPs, MODROBs Schemes over 3 Years. The senior faculties of the department are executing TEQIP-III project under JNTU Hyderabad and also applied for DST project. Texas Instruments University program sponsored two research Laboratories on the Internet of Things and Robotics. Students of the department are well placed in MNCs and other government sectors.</p>	<p><b>Schedule:</b> 1. Last date of receipt of applications: April 16<sup>th</sup> 2017 2. Spot registrations allowed</p> <p>The Applications in the prescribed form has to be reach coordinator either Email and/ or by hard copy.</p> <p>Programme sponsored by AICTE and many workshops, seminars and guest lectures for the benefits of Students.</p> <p><b>About the Workshop:</b> Neural networks represent a new generation of information processing paradigms designed to mimic-in a very limited sense-the human brain.Recent Advances in Artificial Neural Networks collects the latest neural network paradigms and reports on their promising new applications. World-renowned experts discuss the use of neural networks in pattern recognition, color induction, classification, cluster detection, and more. Application engineers, scientists, and research students from all disciplines with an interest in considering neural networks for solving real-world problems will find this collection useful.</p> <p><b>Resource Persons</b> Renowned academicians in this field are being invited to deliver lectures on specialized topics. Some of the eminent guest faculties in this field are:</p> <p><b>List of Resource Persons:</b> 1. Dr. T. Kishore Kumar Professor - Electronics &amp; communication Engineering Department 2. Dr. L. Anjaneyulu Professor - Electronics &amp; communication Engineering Department.</p>	<p>ONE WEEK WORKSHOP ON "RECENT ADVANCES IN NEURAL NETWORKS" 17<sup>th</sup> to 22<sup>nd</sup> April 2017</p> <p>REGISTRATION FORM</p> <p>1. Name of Participant:..... 2. Department:..... 3. Institution:..... 4. Address for Correspondence:..... 5. Mobile No:..... 6. Email:..... 7. Category (SC/ST/Others):.....</p> <p><b>DECLARATION</b> The information provided herewith is true to the best of my knowledge. I agree to abide by the rules and regulations governing the workshop programme.</p> <p>Date: _____ Place: _____</p> <p>Signature of the applicant _____</p> <p>Signature of the Sponsoring Authorities _____</p>
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NARSAMPET, WARANGAL - 506332

## RECENT ADVANCES IN NEURAL NETWORK

### CONTENTS

1. A Neuro-Symbolic Hybrid Intelligent Architecture With Applications
2. New Radical Basis Neural Networks and Their Application in a Large-Scale Handwritten Digit recognition Problem
3. Efficient Neural Network-Based Methodology for the Design of Multiple Classifiers
4. Learning Fine Motion in Robotics: Design and Experiments
5. A New Neural Network for Adaptive Pattern Recognition of Multichannel Input Signals 6. Lateral priming Adaptive Resonance Theory (LAPART)-2: Innovation in Art
6. Neural Network Learning in A Travel Reservation Domain
7. Recent Advances in Neural Network Applications in Process Control
8. Monitoring Internal Combustion Engines by Neural Network Based Virtual Sensing 10. Neural architectures of Fuzzy Petri Nets



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## RECENT ADVANCES IN NEURAL NETWORK

### Course Outcomes

Understand the context of neural networks and deep learning

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



Estd:2001


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## BRAIN WAVE ROBOTICS

<p><b>Eligibility:</b> The program is open to the all students members of Electronics and Communication Engineering courses at undergraduate and post graduate level are welcome.</p> <p><b>Registration Details:</b> IEEE /ISTE Students Free Non IEEE /ISTE Students 100/-</p> <p><b>How to Register:</b> The participants may log on to the website: <a href="http://www.jits.in">www.jits.in</a> and fill up the application form selecting the name of the course you may also send scanned copy of your filled application form to <a href="mailto:tabbusmile786@gmail.com">tabbusmile786@gmail.com</a> or <a href="mailto:eechod@jits.in">eechod@jits.in</a>. Application format may be downloaded from the website (also available in this brochure).</p> <p><b>Address for Correspondence:</b> <b>Head of the Department</b> Md. Hameed Pasha Dept. of Electronics and Communication Engineering Jayamukhi Institute of Technological Sciences, Narsampet, (Dist): Warangal-506332, (T.S) Email: <a href="mailto:hodecejits@gmail.com">hodecejits@gmail.com</a></p> <p><b>About JITS Narsampet:</b> Jayamukhi Institute of Technological Sciences, Narsampet is sponsored by Jayamukhi Educational Society, Warangal. The Institute started in a humble way with 3 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 state. At present the institute offers 5 B.Tech Courses in ECE, CSE, EEE, ME, CIVIL and M.Tech courses in CSE, SWE, VLSI, PSCA and CAD/CAM in addition to MBA, Pharmacy, B.Ed, D.Ed courses under the fold of the same society. The Institute affiliated to JNTU, Hyderabad. Four B.Tech courses namely CSE, ECE, EEE &amp; IT are accredited by NBA AICTE, New Delhi for period of three years with effect from 10-02-2009, which is a record in the history of technical institutions of T.S. Again three departments EEE, CSE, ECE was accredited by NBA for a period of three years. The institute is spread over an area of 40 acres of green pastures in Narsampet, about 30km away</p>	<p><b>Chief Patron:</b> Sri Ch. Narsimha Reddy - President</p> <p><b>Patron:</b> Sri Ch. Devender Reddy - Secretary Sri T.V.R.N. Reddy - Joint-Secretary</p> <p><b>Principal</b> Dr. M. Lokanadha Rao</p> <p><b>Director</b> Prof. P. Rangaiah.</p> <p><b>Convener:</b> Mr. Md. Hameed Pasha Associate Professor &amp; Head, Dept. of ECE</p> <p><b>Coordinators :</b> Mrs. S. Sandhya Rani, Assoc.Prof Dept. of ECE Mobile: +91-9849829390 Ms. Zulekha Tabassum, Asst.Prof Dept. of ECE Mobile: +91-9949676900 E-Mail: <a href="mailto:eechod@jits.in">eechod@jits.in</a></p> <p><b>Schedule:</b> Last date of receipt of applications: 20<sup>th</sup> August, 2016</p> <p>Spot registrations allowed The Applications in the prescribed form has to be reach coordinator either Email and/ or by hard copy. Programme sponsored by AICTE and many workshops, seminars and guest lectures for the benefits of Students.</p> <p><b>About the Workshop:</b> The mechanism is initiated to implant since 30 years and with growing conceptualization in it, various fundamentals are coming up. Brain consists of various parts and the three main segments are cerebrum, cerebellum and brain stem. Each thought generated in the brain has some energy associated with it. This energy is in the form of an electrical signal which can be detected. This signal generated is defined as electroencephalogram in terms of neurology. This electrical signal has some voltage associated with it and it can be detected using electrodes placed across the brain.</p>	<p><b>HANDS-ON WORKSHOP ON "BRAINWAVE ROBOTICS"</b> 22<sup>nd</sup> - 26<sup>th</sup> August, 2016</p> <p>Organized by:</p> <p><b>DEPARTMENT OF Electronics and Communication Engineering &amp; IETE STUDENT CHAPTER</b></p>  <p><b>JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES</b> (U.G.C AUTONOMOUS) Permanently Affiliated to JNTUH, Accredited by NBA, Narsampet, Warangal - 506332. Tel (08718) 208586, Fax: (08718) 222569 Website: <a href="http://www.jits.in">www.jits.in</a></p>
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<p>from the historical city of Warangal and presents a picturesque and panoramic view. It has well developed laboratories in all disciplines, a Computer Centre with 1000 P.V systems and with 2 IBM servers and associated software, a fully fledged training and Placement Cell, Educational Technology Cell, English Language Communication Skills Laboratory, a dedicated leased BSNL 1:1 8Mbps 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 200 technical Research papers in reputed National and International Journals.</p> <p><b>About the Department of Electronics and Communication Engineering</b> The Electronics and Communication Engineering (ECE) Department was started in the year 2001 and it is one of the well established and largest departments in the institution since the inception. The department offers Undergraduate (B. Tech ECE) and Postgraduate (M. Tech Embedded Systems) &amp; (M. Tech VLSI Design) Programs that provide students with the knowledge and tools they need to succeed in the Electronics and Communication Engineering. Currently the department offers four year B.Tech course with student intake of 180. The department is accorded with NBA accreditation in the year 2009 and 2017 for 3 Years. The Department has grant in aids from various funding agencies for organizing FDPs, STTPs, MODROBs Schemes over 3 Years. The senior faculties of the department are executing TEQIP-III project under JNTU Hyderabad and also applied for DST projects. Texas Instruments University program sponsored two research Laboratories on the Internet of Things and Robotics. Students of the department are well placed in MNCs and other government sectors.</p>	<p><b>Resource Persons</b> Renowned academicians in this field are being invited to deliver lectures on specialized topics. Some of the eminent guest faculties in this field are: List of Resource Persons:</p> <p>List of Resource Persons:</p> <ol style="list-style-type: none"> <li>1. Dr. N. Bheema Rao Professor - Electronics &amp; communication Engineering Department, NIT, WGL</li> <li>2. Dr. C B. Rama Rao Professor - Electronics &amp; communication Engineering Department, NIT, WGL</li> </ol> 	<p><b>HANDS-ON WORKSHOP ON "BRAINWAVE ROBOTICS"</b> 22<sup>nd</sup> - 26<sup>th</sup> August, 2016</p> <p><b>REGISTRATION FORM</b></p> <p>1. Name of Participant:.....</p> <p>2. Department:.....</p> <p>3. Institution:.....</p> <p>4. Address for Correspondence:.....</p> <p>5. Mobile No:.....</p> <p>6. Email:.....</p> <p>7. Category (SC/ST/Others):.....</p> <p><b>DECLARATION</b> The information provided herewith is true to the best of my knowledge. I agree to abide by the rules and regulations governing the workshop programme.</p> <p>Date: _____ Place: _____</p> <p style="text-align: right;">Signature of the applicant</p> <p style="text-align: right;">Signature of the Sponsoring Authorities</p>
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## **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



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## **BRAIN WAVE ROBOTICS**

### **COUSRE OUTCOMES**

1. Able to apply robot fundamentals in designing various types of end effectors
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



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NARSAMPET, WARANGAL - 506332

## Industrial applications of IOT

<p><b>Eligibility:</b> The program is open to the all students in Electronics and Communication Engineering courses at undergraduate and post graduate level are welcome.</p> <p><b>Registration Details:</b> • Non IEEE /ISTE Students 200/-</p> <p><b>How to Register:</b> The participants may log on to the website <a href="http://www.jits.in">www.jits.in</a> and fill up the application form selecting the name of the course you may also send scanned copy of your filled application form to <a href="mailto:gshyamsingh2@gmail.com">gshyamsingh2@gmail.com</a> or <a href="mailto:eechod@jits.in">eechod@jits.in</a> Application format may be downloaded from the website (also available in this brochure).</p> <p><b>Address for Correspondence:</b> Head of the Department Md.Hameed Pasha Dept. of Electronics and Communication Engineering Jayamukhi Institute of Technological Sciences, Narsampet, (Dist), Warangal-506332, (T.S) Email: <a href="mailto:hodecejits@gmail">hodecejits@gmail</a></p> <p><b>About JITS Narsampet:</b> Jayamukhi Institute of Technological Sciences, Narsampet is sponsored by Jayamukhi Educational Society, Warangal. 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 state. At present the institute offers 5 B.Tech Courses in ECE, CSE, EEE, ME, CIVIL and M.Tech courses in CSE, SWE, VLSI, PSCA and CAD/CAM in addition to MBA, Pharmacy, B.Ed, D.Ed courses under the fold of the same society. The Institute affiliated to JNTU, Hyderabad. Four B.Tech courses namely CSE, ECE, EEE &amp; IT are accredited by NBA AICTE, New Delhi for period of three years with effect from 10-02-2009, which is a record in the history of technical institutions of T.S. Again three departments EEE, CSE, ECE was accredited by NBA for a period of three years. The Institute is spread over an area of 40 acres of green</p>	<p><b>Chief Patron:</b> Sri Ch.Narsimha Reddy - President</p> <p><b>Patron:</b> Sri Ch.Devender Reddy - Secretary Sri T.V.R.N.Reddy - Joint-Secretary</p> <p><b>Principal:</b> Dr.M.Lokanadha Rao</p> <p><b>Director:</b> Pro.P.Rangaiah,</p> <p><b>Head of Department:</b> Mr. Md.Hameed Pasha Associate Professor Electronics and Communication Engineering</p> <p><b>Convenor:</b> Mr.Hameed Pasha Associate Professor Electronics and Communication Engineering</p> <p><b>Coordinators:</b> Mr. S.k.Mastan Associate.Prof. Electronics &amp; Communication Engineering Faculty Advisor Cello: 9701781241.</p> <p><b>Mr.S.Kalyan</b> Asst.Prof. Electronics &amp; Communication Engineering Cello: 9989418318.</p> <p><b>Schedule:</b></p>	<p>ONE WEEK WORKSHOP ON "INDUSTRIAL APPLICATIONS OF IOT" 24<sup>th</sup> to 29<sup>th</sup> May 2017</p> <p><b>Organized by:</b> DEPARTMENT OF Electronics and Communication Engineering &amp; IEEE STUDENT CHAPTER</p> <p>JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES (U.G.C AUTONOMOUS) Permanently Affiliated to JNTUH, Accredited by NBA, Narsampet, Warangal - 506332. Tel (08718) 208586, Fax: (08718) 222569 Website: <a href="http://www.jits.in">www.jits.in</a></p>
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<p>pastures in Narsampet, about 30km away from the historical city of Warangal and presents a picturesque and panoramic view. It has well developed laboratories in all disciplines, a Computer Centre with 1000 P-IV systems and with,</p> <p>2. IBM servers and associated software, a fully fledged training and Placement Cell, Educational Technology Cell, English Language Communication Skills Laboratory, a dedicated leased BSNL 1:1 Mbps 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 200 technical Research papers in reputed National and International Journals.</p> <p><b>About the Department of Electronics and Communication Engineering</b> The Electronics and Communication Engineering (ECE) Department was started in the year 2001 and it is one of the well established and largest departments in the institution since its inception. The department offers Undergraduate (B. Tech ECE) and Postgraduate (M. Tech Embedded Systems) &amp; (M. Tech VLSI Design) Programs that provide students with the knowledge and tools they need to succeed in the Electronics and Communication Engineering. Currently the department offers four year B.Tech course with student intake of 180. The department is accorded with NBA accreditation in the year 2009 and 2017 for 3 Years. The Department has grant in aids from various funding agencies for organizing FDPs, SITPs, MOORBS Schemes over 3 Years. The senior faculties of the department are executing TEQIP-III project under JNTU Hyderabad and also applied for DST projects. Texas Instruments University program sponsored two research Laboratories on the Internet of Things and Robotics. Students of the department are well placed in MNCs and other government sectors.</p>	<p>1. Last date of receipt of applications 23<sup>rd</sup> May-2017</p> <p>2. Spot registrations allowed</p> <p>The Applications in the prescribed form has to be reach coordinator either Email and/ or by hard copy.</p> <p>Programme sponsored by AICTE and many workshops, seminars and guest lectures for the benefits of Students.</p> <p><b>About the Workshop:</b> Internet of Things (IoT) and smart connected devices have radically changed the way our world works and how companies operate and create new businesses. Do you want to learn about IoT fundamentals? This is a course for you! In this course we provide an overview of the under laying IoT technologies and its business applications. his course is an introduction to IoT and explains why it is a continuously evolving concept with many industrial applications. You will learn the fundamental building blocks of IoT and the fast-changing trends to combine them suitably for a precise industrial application. Join us to learn about the latest IoT concepts and business success stories.</p> <p><b>Resource Persons</b> Renowned academicians in this field are being invited to deliver lectures on specialized topics. Some of the eminent guest faculties in this field are:</p> <p><b>List of Resource Persons:</b> 1. Dr. P. Sreehari Rao Associate Professor and Head - Electronics &amp; communication Engineering Department, NIT, WGL</p> <p>2. Dr. L. Anjaneyulu Professor-Electronics &amp; communication Engineering Department, NIT, WGL</p>	<p>ONE WEEK WORKSHOP ON "INDUSTRIAL APPLICATIONS OF IOT" 24<sup>th</sup> to 29<sup>th</sup> May 2017</p> <p>REGISTRATION FORM</p> <p>1. Name of Participant:.....</p> <p>2. Department:.....</p> <p>3. Institution:.....</p> <p>4. Address for Correspondence:.....</p> <p>5. Mobile No:.....</p> <p>6. Email:.....</p> <p>7. Category (SC/ST/Others):.....</p> <p><b>DECLARATION</b> The information provided herewith is true to the best of my knowledge. I agree to abide by the rules and regulations governing the workshop programme.</p> <p>Date:.....</p> <p>Place:.....</p> <p style="text-align: right;">Signature of the applicant</p> <p style="text-align: right;">Signature of the Sponsoring Authorities</p>
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# 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 of 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



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## **Industrial applications of IOT**

### **Course Outcomes:**

- CO1: Interpret the impact and challenges posed by IoT networks leading to new architectural models.
- CO2: Compare and contrast the deployment of smart objects and the technologies to connect them to network.
- CO3: Appraise the role of IoT protocols for efficient network communication.
- CO4: Elaborate the need for Data Analytics and Security in IoT.
- CO5: Illustrate different sensor technologies for sensing real world entities and identify the applications of IoT in Industry.



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NARSAMPET, WARANGAL - 506332


## ELECTRIC VEHICLE

REGISTRATION FORM	
1. Name of Participant: .....	<b>Chief Patron:</b> Sri Ch. Narsimha Reddy – President
2. Designation: .....	<b>Patron:</b> Sri Ch. Devender Reddy - Secretary Sri T.V.R.N. Reddy - Joint-Secretary
3. Qualification: .....	<b>Principal:</b> Dr.M. Lokanadha Rao
5. Department .....	<b>Director:</b> Prof.V. Rangaiah,
6. Institution/Industry.....	<b>Conveners:</b> Mr. D.Rajani Kumar Associate Professor & Head, Dept. of EEE
7. Address for Correspondence.....	<b>Coordinator:</b> Mr.G.Anil, Associate.Prof Dept. of EEE Mobile: +91-9885658384
8. Mobile No.....	<b>Mr.M.Satyanarayana, Asst.Prof</b> Dept. of EEE Mobile: +91-9550944471 E-Mail: <a href="mailto:eeehod@jits.in">eeehod@jits.in</a>
9. Email.....	<b>How to Register:</b> The participants may log on to the website: <a href="http://www.jits.in">www.jits.in</a> and fill up the application form selecting the name of the course you may also send scanned copy of your filled application form to <a href="mailto:eeehod@jits.in">eeehod@jits.in</a> on or before 6 <sup>th</sup> April 2019. Application format may be downloaded from the website (also available in this Broucher)
10. Category (ST/SC/OBC/OC/Other) .....	
<b>DECLARATION</b> 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
<b>Registration Fee:</b> • Students 100/-	
<b>Address for Correspondence:</b> The Convenor, Mr. D. Rajani Kumar Department of Electrical and Electronics Engineering Jayamukhi Institute of Technological Sciences, Narsampet, (Dist): Warangal-506332. (T.S) E-Mail: <a href="mailto:eeehod@jits.in">eeehod@jits.in</a>	

**A One Week Workshop  
On  
" ELECTRIC VECHICLE "**  
11<sup>th</sup> -15<sup>th</sup> September 2017



**Organized by**  
Department of Electrical and Electronics Engineering



**JAYAMUKHI  
INSTITUTE OF TECHNOLOGICAL  
SCIENCES**  
(An Autonomous Institution)  
(Permanently Affiliated to JNTUH, accredited by NBA,  
recognized Under UGC 2(f) & 12(b))  
Narsampet, Warangal (Rural) – 506332(T.S)  
@ jayamukhi.ac.in

Jayamukhi Institute of Technological Sciences, Narsampet is sponsored by Jayamukhi Educational Society, Warangal. The Institute is approved by AICTE and permanently affiliated to JNTU, Hyderabad. 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 green pastures in Narsampet, about 30km away from the historical city of Warangal and presents a picturesque 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 Mbps 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 International Journals.

**About E.E.E. Department:**

The Department of Electrical & Electronics Engineering 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 faculty as per the norms of AICTE. The department has equipped with sophisticated laboratories. The department had already organized two AICTE sponsored two week FDP program entitled "Soft Computing Techniques in Electrical Engineering" in the year 2010 with a grant of 7 Lakh and another FDP entitled "Renewable Energy Sources Integration to Power Systems" in the year 2013 with a grant of 4 Lakh.

**About the workshop:**

- Road Electric Vehicles (EVs) include a large range of vehicles from electric two-wheeled, three-wheeled (rickshaws), cars and electric buses.
- electric vehicles (BEVs), and plug-in hybrid electric vehicles (PHEVs). BEVs have an electric motor in place of combustion engine and use electricity from the grid stored in batteries. Plug-in hybrid electric vehicles (PHEV) use batteries to power an electric motor and liquid fuel such as gasoline or diesel to power an internal combustion engine or other propulsion.

**Resource Persons**

Renowned academicians in this field are being invited to deliver lectures on specialized topics. Some of the eminent guest faculties in this field are:

**List of Resource Persons:**

1. Dr. Nagarajan Rajendran  
Professor – Electrical and Electronics Engineering Department, JITS, WGL
2. Dr. Anuraja Moganandan  
Professor – Electrical and Electronics Engineering Department, JITS, WGL





## **ELECTRIC VEHICLE**

### **CONTENTS:**

1. Introduction to Electric Vehicle
2. Recent Advances of Electric Vehicle
3. Electric grid
4. Types of Controllers
5. Energy management and systems control
6. Electric energy storage systems, such as batteries and ultracapacitors
7. Applications of electric vehicles
8. Outcomes





## **ELECTRIC VEHICLE**

### **COURSE OUTCOMES:**

- Electric vehicles are definitely more environmentally friendly than internal-combustion vehicles.
- Batteries are being engineered to have a long life. When the Electric vehicles become more widespread.
- Battery recycling will become economically possible.
- Research into other energy sources such as fuel cells and renewable fuels make the future look brighter for Electric vehicles.



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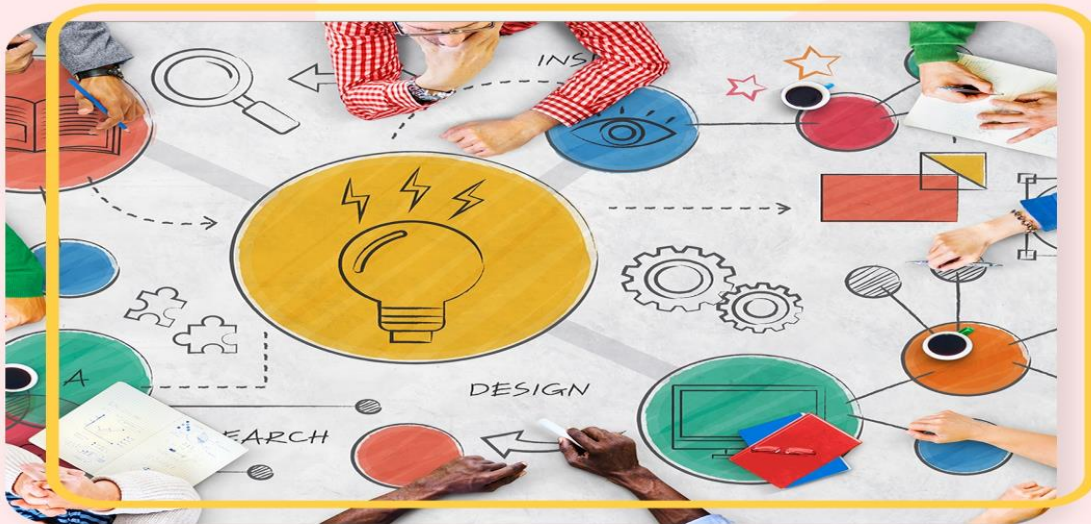
## CRITICAL THINKING & PROBLEM SOLVING



**JAYAMUKHI**

INSTITUTE OF TECHNOLOGICAL SCIENCES

UGC - AUTONOMOUS



A STUDENT PROGRAM  
ON

# CRITICAL THINKING & PROBLEM SOLVING

CSE: 11<sup>TH</sup> JULY TO 15<sup>TH</sup> JULY, 2016

**CONDUCTED BY :**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**VENUE:**

JAYAMUKHI  
INSTITUTE OF TECHNOLOGICAL SCIENCES  
(UGC AUTONOMOUS)



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## **CRITICAL THINKING & PROBLEM SOLVING**

### **CONTENTS**

Introduction, Getting Started, Problem Solving Method, Information Gathering, Problem Definition, Preparing for Brainstorming, Generating Solutions (I), Generating Solutions (II), Analyzing Solutions, Selecting a Solution, Planning Your Next Steps, Recording Lessons Learned, Closing

Critical Thinking, Getting Started, Components of Critical Thinking, Non-Linear Thinking, Logical Thinking, Critical Thinkers (I), Critical Thinkers (II), Evaluate the Information, Benefits of Critical Thinking, Changing Your Perspective, Problem Solving, Putting It All Together



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### **CRITICAL THINKING & PROBLEM SOLVING**

#### **COURSE OUTCOMES:**

1. Stating, and describing comprehensively, an issue or problem to be considered, delivering all relevant information necessary for full understanding.
2. Developing conclusions and related outcomes (consequences and implications) that are logical and reflect the student's informed evaluation and ability to place evidence and perspectives discussed in priority order.
3. Proposing one or more solutions/ hypotheses that indicate a deep comprehension of the problem.
4. Evaluating a solution, considering the history of problem, logic/reasoning behind the solution, the feasibility of the solution, and the impacts of the solution.
5. Implementing a solution in a manner that addresses thoroughly and deeply multiple contextual factors of the problem.



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## INTRODUCTION TO COMPUTERS



**JAYAMUKHI**

INSTITUTE OF TECHNOLOGICAL SCIENCES  
UGC - AUTONOMOUS

A STUDENT PROGRAM  
ON

# INTRODUCTION TO COMPUTERS

CSE: 24<sup>TH</sup> OCT TO 28<sup>TH</sup> OCT, 2016

**CONDUCTED BY :**

DEPARTMENT OF  
COMPUTER SCIENCE AND ENGINEERING



**VENUE:**

JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES  
(UGC AUTONOMOUS)



# JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES

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NARSAMPET, WARANGAL - 506332

## INTRODUCTION TO COMPUTERS

### CONTENTS

#### **I. Computers, Devices, and the Web**

- A. Computers
- B. Mobile and Game Devices
- C. Data and Information
- D. The Web
- E. Digital Security and Privacy

#### **II. Connecting and Communicating Online: The Internet, Websites, and Media**

- A. The Internet
- B. Connecting to the Internet
- C. The World Wide Web
- D. Types of Websites
- E. Digital Media on the Web

#### **III. Computers and Mobile Devices: Evaluating Options for Home and Work**

- A. Mobile Computers and Desktops
- B. Servers
- C. Terminals
- CIS 110 June 2017
- D. Supercomputers

#### **IV. Programs and Apps: Productivity, Graphics, Security and Work**

- A. Programs and Apps
- B. Productivity Applications
- C. Graphics and Media Applications
- D. Personal Interest Applications
- E. Communications Applications

#### **V. Digital Security, Ethics, and Privacy: Threats, Issues, and Defenses**

- A. Digital Security Risks
- B. Internet and Network Attacks
- C. Unauthorized Access and Use
- D. Software Theft
- E. Information Theft
- F. Hardware Theft, Vandalism, and Failure
- G. Backing Up



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## **INTRODUCTION TO COMPUTERS**

### **COURSE OUT COMES**

1. Identify the basic elements required in a computer system.
2. Produce electronic documents using various software applications.
3. Illustrate the role of the computer for personal and professional uses.





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## ENHANCEMENT OF SAP SOFTWARE FOR CIVIL ENGINEERS

<p style="text-align: center;"><b>Sponsoring &amp; Forwarding</b></p> <p>This is to certify that Prof./Dr./Sri./Ms. _____ working as _____ in the _____ Department of _____ is sponsored to attend ONE WEEK WORKSHOP ON "ENHANCEMENT OF E-TABS SOFTWARE FOR CIVIL ENGINEERS 2018" Organized by Jayamukhi Institute of Technological Sciences, Narsampet, and Dist. Warangal from 10/08/2017 to 15/08/2017. In case the candidate is selected he/she shall be permitted to attend the course.</p> <p>Date: _____ Signature of the authorized person: _____ Name: _____ Designation: _____ (SEAL)</p>	<p><b>About JITS Narsampet:</b> Jayamukhi Institute of Technological Sciences, Narsampet is sponsored by Jayamukhi Educational Society, Warangal. 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 13 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 ECE, CSE, EEE, ME, CIVIL and M.Tech courses in CSE, SWE, VLSI, PSCA and CAD/CAM in addition to MBA, Pharmacy, B.Ed, D.Ed courses under the fold of the same society. The Institute affiliated to JNTU, Hyderabad. Four B.Tech courses namely CSE, ECE, EEE &amp; 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 technical institutions of T.S.</p> <p>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 presents a picturesque and panoramic view. It has well developed laboratories in all disciplines, a Computer Centre with 1000 P-IV systems and with 2 IBM servers and associated software, a fully fledged training and Placement Cell, Educational Technology Cell, English Language Communication Skills Laboratory, a dedicated leased BSNL 1:1 8 Mbps 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 100 technical Research papers in reputed National and International Journals.</p> <p><b>About CIVIL DEPARTMENT</b> The Department of Civil Engineering was established in the year 2013. The current intake in UG program is 120. The department has dedicated and qualified faculty as per the norms of AICTE. The department has equipped with sophisticated laboratories.</p>	<p style="text-align: center;"><b>ONE WEEK WORKSHOP ON "ENHANCEMENT OF SAP SOFTWARE FOR CIVIL ENGINEERS 10<sup>th</sup> to 15<sup>th</sup> August-2017</b></p>  <p style="text-align: center;"><b>Convener Mr. Gulam Samdani Head, Dept. of Civil Engineering</b></p> <p style="text-align: center;"><b>Coordinator Miss. Ch. Shalini Asst. Prof - CED</b></p> <p style="text-align: center;"><b>Organized by</b></p>  <p style="text-align: center;">Estd :2001</p> <p style="text-align: center;"><b>DEPARTMENT OF CIVIL ENGINEERING JAYAMUKHI Institute of Technological Sciences Narsampet, Warangal-506332 (T.S), INDIA. Tel (08718) 208586, Fax: (08718) 222569 Website: www.jits.in</b></p>
<p><b>Registration Fee:</b> Registration fee of Rs.1000/- has to be paid along with registration form. It has to be paid in the form of crossed demand draft in favor of "Principal, Jayamukhi Institute of Technological Sciences Narsampet" payable at Warangal.</p>		
<p><b>Schedule:</b> 1. The Applications in the prescribed form after payment of fee has to reach the convener 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 07<sup>th</sup> August, 2017.</p> <p>Address for Correspondence: <b>The Convener,</b> ESSCE-2017 Department of Civil Engineering Jayamukhi Institute of Technological Sciences, Narsampet, (Dist): Warangal-506332. (T.S) E-Mail: jitscivil@gmail.com Mobile: 9490630014</p>		



<p><b>ABOUT THE COURSE:</b></p> <p>This course titled " E-TABS Complete Course: From Beginner to Pro" teaches you ETABS is a highly efficient analysis and design program developed especially for building systems. It is loaded with an integrated system with an ability to handle the largest and most complex building models and configurations.</p> <p>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.</p> <p><b>COURSE CONTENTS:</b></p> <ul style="list-style-type: none"> <li>❖ Complete knowledge of E-TABS.</li> <li>❖ The software has powerful CAD-like drawing tools with a graphical and object-based interface.</li> <li>❖ It increases the productivity of structural engineers.</li> <li>❖ The course will help the candidates to acquire in-depth details about the different procedures and simplified analysis aspects of the design models.</li> <li>❖ Export the designed data to excel for further calculations.</li> </ul> <p>Do preliminary design of structural members.</p> <p><b>Eligibility:</b></p> <p>The program is for the faculty of AICTE approved Engineering Colleges teaching and doing research in Civil Engineering.</p> <p><b>TA, Boarding &amp; Lodging Facilities:</b></p> <p>No TA, Boarding and Lodging Facilities will be provided to the out station participants in the college hostels. Local participants will be provided working lunch, tea and snacks along with other participants.</p>	<p><b>Resource Persons:</b></p> <p>Renowned academicians and researchers in this field are being invited to deliver lectures on specialized topics. Some of the eminent guest faculties in this field are:</p> <p>1. <b>Er.Shravan Kumar Project Manager, MS Tech IT Solutions</b></p> <p><b>Chief Patron:</b> Sri Ch.Narsimha Reddy - President</p> <p><b>Patron:</b> Sri Ch.Devender Reddy - Secretary Sri T.V.R.N.Reddy - Joint-Secretary</p> <p><b>Principal</b> Dr.M.Lokanadha Rao</p> <p><b>Director</b> Prof.P.Rangaiah.</p> <p><b>Convener:</b> Mr.Gulam Samdani- Head, CED</p> <p><b>Coordinator:</b> Miss.Ch.Shalini -Asst.Prof</p> <p><b>Organizing Committee:</b></p> <ol style="list-style-type: none"> <li>1. Ms.M.SriKavya, Asst.Prof</li> <li>2. Mr.S.Venkatesh, Asst.Prof</li> <li>3. Mr.Syed Samiullah,Asst.Prof</li> <li>4. Mr.DS Shiva Kumar, Asst.Prof</li> <li>5. Ms.A.Sindhuja, Asst.Prof</li> <li>6. Mr.YM Punith - Asst.Prof</li> <li>7. Ms.B.H.Joice, Asst.Prof</li> <li>8. Ms.B.Laxmi, Asst.Prof.</li> <li>9. Mr.A.ShivShankar, Asst.Prof</li> <li>10.Ms.G.Swathi, Asst.Prof</li> <li>11.Mr.L.Naveen, Asst.Prof</li> </ol>	<p style="text-align: center;"><b>ONE WEEK WORKSHOP ON "ENHANCEMENT OF SAP SOFTWARE FOR CIVIL ENGINEERS 10<sup>th</sup> to 15<sup>th</sup> August-2017</b></p> <p style="text-align: center;"><b>JAYAMUKHI</b> Institute of Technological Sciences Narsampet, Warangal-506332 (T.S), INDIA. Tel (08718) 208586, Fax: (08718) 222569 Website: <a href="http://www.jits.in">www.jits.in</a></p> <p>1. Full Name: _____</p> <p>2. Designation: _____</p> <p>3. Institute: _____</p> <p>4. Qualification: _____</p> <p>5. Date of Birth: _____</p> <p>6. Address for Correspondence: _____</p> <p>Email: _____</p> <p>Mobile: _____</p> <p>Fee: 1000/-</p> <p>Mode of Payment: _____</p> <p style="text-align: center;">This is to be certify that the information given by me is correct to the best of my knowledge.</p> <p>Date: _____ Signature: _____</p>
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**JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES**

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NARSAMPET, WARANGAL - 506332

## **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.



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### **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.





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NARSAMPET, WARANGAL - 506332

## ENHANCEMENT OF E-TABS SOFTWARE FOR CIVIL ENGINEERS

<p style="text-align: center;"><b>Sponsoring &amp; Forwarding</b></p> <p>This is to certify that Prof./Dr./Sri./Ms. _____ working as _____ in the _____ Department of _____ is sponsored to attend ONE WEEK WORKSHOP ON "ENHANCEMENT OF E-TABS SOFTWARE FOR CIVIL ENGINEERS 2018" Organized by Jayamukhi Institute of Technological Sciences, Narsampet, and Dist. Warangal from 07/10/2018 to 12/10/2018. In case the candidate is selected he/she shall be permitted to attend the course.</p> <p>Date: _____ Signature of the authorized person: _____ Name: _____ Designation: _____ (SEAL)</p>	<p><b>About JITS Narsampet:</b> Jayamukhi Institute of Technological Sciences, Narsampet is sponsored by Jayamukhi Educational Society, Warangal. 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 13 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 ECE, CSE, EEE, ME, CIVIL and M.Tech courses in CSE, SWE, VLSI, PSCA and CAD/CAM in addition to MBA, Pharmacy, B.Ed, D.Ed courses under the fold of the same society. The Institute affiliated to JNTU, Hyderabad. Four B.Tech courses namely CSE, ECE, EEE &amp; 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 technical institutions of T.S.</p>	<p style="text-align: center;"><b>ONE WEEK WORKSHOP ON "ENHANCEMENT OF E-TABS SOFTWARE FOR CIVIL ENGINEERS 07<sup>th</sup> to 12<sup>th</sup> October-2017</b></p>  <p style="text-align: center;"><b>Convenor Mr. Gulam Samdani Head, Dept. of Civil Engineering</b></p> <p style="text-align: center;"><b>Coordinator Miss. Ch. Shalini Asst. Prof - CED</b></p> <p style="text-align: center;"><b>Organized by</b></p>  <p style="text-align: center;">Estd :2001</p>
<p><b>Registration Fee:</b> Registration fee of Rs.1000/- has to be paid along with registration form. It has to be paid in the form of crossed demand draft in favor of "Principal, Jayamukhi Institute of Technological Sciences Narsampet" payable at Warangal.</p>	<p>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 presents a picturesque and panoramic view. It has well developed laboratories in all disciplines, a Computer Centre with 1000 P-IV systems and with 2 IBM servers and associated software, a fully fledged training and Placement Cell, Educational Technology Cell, English Language Communication Skills Laboratory, a dedicated leased BSNL 1:1 8 Mbps 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 100 technical Research papers in reputed National and International Journals.</p>	<p style="text-align: center;"><b>DEPARTMENT OF CIVIL ENGINEERING JAYAMUKHI Institute of Technological Sciences Narsampet, Warangal-506332 (T.S), INDIA. Tel (08718) 208586, Fax: (08718) 222569 Website: www.jits.in</b></p>
<p><b>Schedule:</b> 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 05<sup>th</sup> October, 2017.</p>	<p><b>About CIVIL DEPARTMENT</b> The Department of Civil Engineering was established in the year 2013. The current intake in UG program is 120. The department has dedicated and qualified faculty as per the norms of AICTE. The department has equipped with sophisticated laboratories.</p>	
<p>Address for Correspondence: <b>The Convenor,</b> <b>ESSCE-2018</b> Department of Civil Engineering Jayamukhi Institute of Technological Sciences, Narsampet, (Dist): Warangal-506332. (T.S) E-Mail: jitscivil@gmail.com Mobile: 9490630014</p>		

<p><b>ABOUT THE COURSE:</b></p> <p>This course titled " E-TABS Complete Course: From Beginner to Pro" teaches you ETABS is a highly efficient analysis and design program developed especially for building systems. It is loaded with an integrated system with an ability to handle the largest and most complex building models and configurations.</p> <p>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.</p> <p><b>COURSE CONTENTS:</b></p> <ul style="list-style-type: none"> <li>❖ Complete knowledge of E-TABS.</li> <li>❖ The software has powerful CAD-like drawing tools with a graphical and object-based interface.</li> <li>❖ It increases the productivity of structural engineers.</li> <li>❖ The course will help the candidates to acquire in-depth details about the different procedures and simplified analysis aspects of the design models.</li> <li>❖ Export the designed data to excel for further calculations.</li> </ul> <p>Do preliminary design of structural members.</p> <p><b>Eligibility:</b></p> <p>The program is for the faculty of AICTE approved Engineering Colleges teaching and doing research in Civil Engineering.</p> <p><b>TA, Boarding &amp; Lodging Facilities:</b></p> <p>No TA, Boarding and Lodging Facilities will be provided to the out station participants in the college hostels. Local participants will be provided working lunch, tea and snacks along with other participants.</p>	<p><b>Resource Persons:</b></p> <p>Renowned academicians and researchers in this field are being invited to deliver lectures on specialized topics. Some of the eminent guest faculties in this field are:</p> <p>1. <b>Er.Shravan Kumar Project Manager, MS Tech IT Solutions</b></p> <p><b>Chief Patron:</b> Sri Ch.Narsimha Reddy - President</p> <p><b>Patron:</b> Sri Ch.Devender Reddy - Secretary Sri T.V.R.N.Reddy - Joint-Secretary</p> <p><b>Principal</b> Dr.M.Lokanadha Rao</p> <p><b>Director</b> Prof.P.Rangaiah.</p> <p><b>Convener:</b> Mr.Gulam Samdani- Head, CED</p> <p><b>Coordinator:</b> Miss.Ch.Shalini -Asst.Prof</p> <p><b>Organizing Committee:</b></p> <ol style="list-style-type: none"> <li>1. Ms.M.SriKavya, Asst.Prof</li> <li>2. Mr.S.Venkatesh, Asst.Prof</li> <li>3. Mr.Syed Samiullah,Asst.Prof</li> <li>4. Mr.DS Shiva Kumar, Asst.Prof</li> <li>5. Ms.A.Sindhuja, Asst.Prof</li> <li>6. Mr.YM Punith - Asst.Prof</li> <li>7. Ms.B.H.Joice, Asst.Prof</li> <li>8. Ms.B.Laxmi, Asst.Prof.</li> <li>9. Mr.A.ShivShankar, Asst.Prof</li> <li>10.Ms.G.Swathi, Asst.Prof</li> <li>11.Mr.L.Naveen, Asst.Prof</li> </ol>	<p style="text-align: center;"><b>ONE WEEK WORKSHOP ON "ENHANCEMENT OF E-TABS SOFTWARE FOR CIVIL ENGINEERS 07<sup>th</sup> to 12<sup>th</sup> October-2017</b></p> <p style="text-align: center;"><b>JAYAMUKHI</b> Institute of Technological Sciences Narsampet, Warangal-506332 (T.S), INDIA. Tel (08718) 208586, Fax: (08718) 222569 Website: <a href="http://www.jits.in">www.jits.in</a></p> <ol style="list-style-type: none"> <li>1. Full Name: _____</li> <li>2. Designation: _____</li> <li>3. Institute: _____</li> <li>4. Qualification: _____</li> <li>5. Date of Birth: _____</li> <li>6. Address for Correspondence: _____</li> </ol> <p>Email: _____</p> <p>Mobile: _____</p> <p>Fee: 1000/-</p> <p>Mode of Payment: _____</p> <p style="text-align: center;">This is to be certify that the information given by me is correct to the best of my knowledge.</p> <p>Date: _____ Signature: _____</p>
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## **ENHANCEMENT OF E-TABS SOFTWARE FOR CIVIL ENGINEERS**

### **CONTENTS**

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- ❖ Recent Advances in Software of Construction Methods
- ❖ Recent Advances in software of Construction Materials
- ❖ Introduction in software of Construction Management
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- ❖ Foundation Engineering and its application to Construction Engineering.



## **ENHANCEMENT OF E-TABS SOFTWARE FOR CIVIL ENGINEERS**

### **COURSE OUT COMES**

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## PCB DESIGN

<p><b>About JITS Narsampet</b></p> <p>Jayamukhi Institute of Technological Sciences, Narsampet Sponsored by the Jayamukhi Educational Society, the Jayamukhi Institute of Technological Sciences came into being in 2001 to provide quality and contemporary education with social relevance in the engineering faculty with an ultimate vision to maintain global standards in higher learning and research. The Institute has the approval of AICTE and recognized by the Government of Telangana. It is permanently affiliated to Jawaharlal Nehru Technological University (JNTU), Hyderabad, UGC Autonomous &amp; accredited by NBA.</p> <p>The Institute has come upon 40 acres of green pastures in Narsampet, about 30km away from the historic city of Warangal and presents a picturesque and panoramic view. JITS offers a four-year B.Tech. programme in the disciplines of CSE, ECE, EEE, CIVIL and ME.</p> <p><b>Department of ECE</b></p> <p>Department of Electronics and Communication Engineering has set vision "To be a premier department for education in Electronics and Communication Engineering in state of Telangana, moulding students into professional engineers". The department imparts state of the art education and encourages cutting edge research. It offers UG program, PG programs in VLSI and ES. Well equipped Laboratories have been facilitated for the Students, research Scholars and the 50 Lakhs of funds generated from AICTE under various schemes like MODROBS, FDPs, STTPs, Received TEQIP-III fund from JNTU Hyderabad.</p>	<p>Established two laboratories namely Internet of Things(IoT) and Robotics sponsored by Texas Instruments USA.</p> <p><b>About the Workshop:</b></p> <p>The electronics and manufacturing industry with growth demands for skill set of the individual. With the competitive market, industrial needs and decreasing demand for work force, it is always advised to learn new things and have certain skill set under sleeves to work in industry. This course is designed to train students in Printed Circuit Board design, Drafting and Fabrication.</p> <p>This Workshop will teach teams of students how to design and fabricate PCB for prototyping as well as in Industrial Production environment. This will help students to innovate faster with electronics technology.</p> <p>List the following list of resource Person:</p> <ol style="list-style-type: none"> <li>1. Prof.K.Kishan Rao, Professor, SNIST, Hyderabad</li> <li>2. Dr.T.Kishore Kumar, Professor ECE, NIT Warangal.</li> <li>3. Dr.P.Krishna, Professor, of ECE, JITS</li> <li>4. Dr.M.Krishna Samy, Professor of ECE,JITS</li> <li>5. Prof.M.Sushanth Babu, Professor of EC E, JITS</li> <li>6. Prof.A.Janardhan, Professor of ECE, JITS</li> </ol>	<p>One week WORKSHOP ON " PCB Design" 10<sup>th</sup> April -17<sup>th</sup> April,2017</p> <p>REGISTRATION FORM</p> <ol style="list-style-type: none"> <li>1. Name of Participant: .....</li> <li>2. Roll No: .....</li> <li>3. Institution: .....</li> <li>4. Address for Correspondence: .....</li> <li>5. Mobile No: .....</li> <li>6. Email: .....</li> <li>7. Category : .....</li> </ol> <p><b>DECLARATION</b></p> <p>The information provided herewith is true to the best of my knowledge. I agree to abide by the rules and regulations governing the workshop programme.</p> <p>Date: _____</p> <p>Place: _____ <b>Signature of the applicant</b></p> <p>_____ <b>Signature of the Sponsoring Authorities</b></p>
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<p><b>Eligibility:</b></p> <p>The program is open to the all students of electronics &amp; Communication Engineering courses at undergraduate and post graduate level re welcome.</p> <p><b>Registration Details:</b></p> <ul style="list-style-type: none"> <li>• Students Free</li> <li>• Research Scholars Free</li> </ul> <p><b>How to Register:</b></p> <p>The participants may log on to the website <a href="http://www.jits.in">www.jits.in</a> and fill up the application form selecting the name of the course you may also send scanned copy of your filled application form Application format may be downloaded from the website(also available in this Brochure)</p> <p><b>Address for Correspondence:</b> The Convener, <b>Head of the Department</b> Dept. of ECE Jayamukhi Institute of Technological Sciences, Narsampet, (Dist): Warangal-506332. (T.S) E-mail: <a href="mailto:hameedjits@gmail.com">hameedjits@gmail.com</a> Mobile: 9490377766. Mobile: 7569839692.</p>	<p><b>Chief Patron:</b></p> <p>Sri Ch.Narsimha Reddy - President</p> <p><b>Patron:</b></p> <p>Sri Ch.Devender Reddy - Secretary Sri T.V.R.N.Reddy - Joint-Secretary</p> <p><b>Principal</b></p> <p>Dr. M.Lokanadha Rao</p> <p><b>Director</b></p> <p>Prof.P.Rangaiah,</p> <p><b>Convener:</b></p> <p>Mr.Md.Hameed Pasha Associate Professor &amp; Head, ECE Department</p> <p><b>Coordinators:</b></p> <p>Dr.Ghansham singh Prof,ECE Department Cell: 6281815605.</p> <p>Mr.M.sridhar Asst.Prof,ECE Department Cell: 9491617090</p> <p><b>Schedule:</b></p> <ol style="list-style-type: none"> <li>1. Last date of receipt of applications: 08<sup>th</sup> April, 2017</li> <li>2. Spot registrations allowed</li> </ol> <p>The Applications in the prescribed form has to be reach coordinator either Email and/ or by hard copy.</p>	<p>One week WORKSHOP ON " PCB Design" 10<sup>th</sup> April -14<sup>th</sup> April,2017</p> <p><b>PCB DESIGN</b></p> <p>CIRCUIT TO PCB DESIGN ENGINEER</p> <p>Organized by:</p> <p>DEPARTMENT OF Electronics and Communication Engineering</p>  <p><b>JAYAMUKHI</b> INSTITUTE OF TECHNOLOGICAL SCIENCES (U.G.C AUTONOMOUS)</p> <p>Permanently Affiliated to JNTUH, Accredited by NBA Narsampet, Warangal – 506332. Tel (08718) 208586, Fax: (08718) 222569 Website: <a href="http://www.jits.in">www.jits.in</a></p>
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## PCB DESIGN

### CONTENTS:

- 1.Introduction to PCB
- 2.Fundamental of basic electronics
  - Component identification
  - Component symbols & their footprints
- 3.Schematic Design
- 4.Layout Design
- 5.Design rule checking
- 6.Manufacturing exports
- 7.Fabrication of PCB
- 8.Assembling & Testing



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## PCB DESIGN

### 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





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## MACHINE LEARNING

<p><b>Eligibility:</b></p> <p>The program is open to all students of Electronics &amp; Communication Engineering courses at undergraduate and post graduate level are welcome.</p> <p><b>Registration Details:</b></p> <ul style="list-style-type: none"> <li>Students Free</li> </ul> <p><b>How to Register:</b></p> <p>The participants may log on to the website: <a href="http://www.jits.in">www.jits.in</a> and fill up the application form selecting the name of the course you may also send scanned copy of your filled application form Application format may be downloaded from the website (also available in this Brochure).</p> <p><b>Address for Correspondence:</b> The Convener, Head of the Department Dept. of ECE Jayamukhi Institute of Technological Sciences, Narsampet, (Dist): Warangal-506332. (T.S) E-mail: <a href="mailto:hameedjits@gmail.com">hameedjits@gmail.com</a> Mobile: 9490377766 Mobile: 7569839692.</p>	<p><b>Chief Patron:</b> Sri Ch.Narsimha Reddy - President</p> <p><b>Patron:</b> Sri Ch.Devender Reddy - Secretary Sri T.V.R.N.Reddy - Joint-Secretary</p> <p><b>Principal</b> Dr. M.Lokanadha Rao</p> <p><b>Director</b> Prof.P.Rangaiah.</p> <p><b>Convener:</b> Mr.Md.Hameed Pasha Associate Professor &amp; Head, ECE Department</p> <p><b>Coordinator:</b> Ms.S.Sandhya Rani Assoc.Prof.ECE Department Cell: 9030073969, 9849829390.</p> <p><b>Schedule:</b></p> <ol style="list-style-type: none"> <li>Last date of receipt of applications: 1<sup>st</sup> October, 2016</li> <li>Spot registrations allowed</li> </ol> <p>The Applications in the prescribed form has to be reach coordinator either Email and/ or by hard copy.</p>	<p>One week WORKSHOP ON " Machine Learning" 3<sup>rd</sup> -7<sup>th</sup> October, 2016</p>  <p>Organized by: <b>DEPARTMENT OF</b> Electronics and Communication Engineering</p>  <p><b>JAYAMUKHI</b> <b>INSTITUTE OF TECHNOLOGICAL SCIENCES</b> (U.G.C AUTONOMOUS) Permanently Affiliated to JNTUH, Accredited by NBA Narsampet, Warangal - 506332. Tel (08718) 208586, Fax: (08718) 222569 Website: <a href="http://www.jits.in">www.jits.in</a></p>
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<p><b>About JITS Narsampet</b></p> <p>Jayamukhi Institute of Technological Sciences, Narsampet Sponsored by the Jayamukhi Educational Society, the Jayamukhi Institute of Technological Sciences came into being in 2001 to provide quality and contemporary education with social relevance in the engineering faculty with an ultimate vision to maintain global standards in higher learning and research. The Institute has the approval of AICTE and recognized by the Government of Telangana. It is permanently affiliated to Jawaharlal Nehru Technological University (JNTU), Hyderabad, UGC Autonomous &amp; accredited by NBA.</p> <p>The Institute has come upon 40 acres of green pastures in Narsampet, about 30km away from the historic city of Warangal and presents a picturesque and panoramic view. JITS offers a four-year B.Tech. programme in the disciplines of CSE, ECE, EEE, CIVIL and ME.</p> <p><b>Department of ECE</b></p> <p>Department of Electronics and Communication Engineering has set vision "To be a premier department for education in Electronics and Communication Engineering in state of Telangana, moulding students into professional engineers". The department imparts state of the art education and encourages cutting edge research. It offers UG program, PG programs in VLSI and ES. Well equipped Laboratories have been facilitated for the Students, research Scholars and the 50Lakhs of funds generated from AICTE under various schemes like MODROBS, FDPs, STTPs. Received TEQIP-III fund from JNTU Hyderabad.</p>	<p>Established two laboratories namely Internet of Things(IoT) and Robotics sponsored by Texas Instruments USA.</p> <p><b>About the Workshop:</b></p> <p>Machine learning is a subfield of artificial intelligence, which is broadly defined as the capability of a machine to imitate intelligent human behavior. Artificial intelligence systems are used to perform complex tasks in a way that is similar to how humans solve problems. Signal processing may be used to prepare data for machine learning algorithms (such as cleaning up the signal and extracting features for voice recognition), machine learning can be used to solve some complex signal processing problems (such as using machine learning for voice activity detection. Resource Persons</p> <p>Renowned academicians in this field are being invited to deliver lectures on specialized topics. Some of the eminent guest faculties in this field are:</p> <p>List The following list of resource Person:</p> <ol style="list-style-type: none"> <li>Prof.K.Kishan Rao, Professor, SNIST, Hyderabad</li> <li>Prof.G.Sathaiah, Professor, of ECE, JITS</li> <li>Dr.I.Srinivasa Rao, Professor, of ECE, JITS</li> <li>Dr.T.V.Ramana, Professor, of ECE, JITS</li> <li>Dr.Adesh Kumar, Professor, of ECE, JITS</li> </ol>	<p>One week WORKSHOP ON " Machine Learning" 3<sup>rd</sup> -7<sup>th</sup> October, 2016 REGISTRATION FORM</p> <ol style="list-style-type: none"> <li>Name of Participant: .....</li> <li>Roll No: .....</li> <li>Institution: .....</li> <li>Address for Correspondence: .....</li> <li>Mobile No: .....</li> <li>Email: .....</li> <li>Category : .....</li> </ol> <p><b>DECLARATION</b></p> <p>The information provided herewith is true to the best of my knowledge. I agree to abide by the rules and regulations governing the workshop programme.</p> <p>Date: _____</p> <p>Place: _____ <b>Signature of the applicant</b></p> <p>_____ <b>Signature of the Sponsoring Authorities</b></p>
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## **MACHINE LEARNING**

### **CONTENTS:**

1. Learning Introduction to Machine Learning
2. Mathematics for Machine
3. Supervised Learning
4. Bayesian Decision Theory
5. Parametric Methods
6. Multivariate Methods
7. Dimensionality Reduction
8. Clustering
9. Nonparametric Methods
10. Decision Trees
11. Linear Discrimination
12. Multilayer Perceptrons
13. Local Models
14. Kernel Machines
15. Bayesian Estimation
16. Hidden Markov Models
17. Graphical Models
18. Combining Multiple Learners
19. Reinforcement Learning
20. Design and Analysis of Machine Learning Experiments



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NARSAMPET, WARANGAL - 506332

## 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



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## **One Week Workshop on Design of Heat Exchangers**

### **CONTENTS**

Heat Exchangers

Practical Use of Exchangers

Design of Heat Exchangers

Types of Heat Exchangers

Shell and Tube

Double Tube

Maintenance Considerations of Heat Exchangers



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## **One Week Workshop on Design of Heat Exchangers**

### **COURSE OUTCOMES**

Understanding about Heat Exchangers

Getting Practical knowledge about Use of Exchangers

Design of Heat Exchangers

Understanding Shell and Tube and Double Tube

Maintenance Considerations of Heat Exchangers



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## **5Day Workshop on Assembly & Disassembly of IC Engine**

### **CONTENTS**

DESCRIPTION AND OPERATION

ENGINE ASSEMBLY

DIAGNOSTIC INFORMATION AND PROCEDURE

FASTENER TIGHTENING SPECIFICATIONS





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## **5Day Workshop on Assembly & Disassembly of IC Engine**

### **COURSE OUTCOMES**

UNDERSTANDING THE DESCRIPTION AND OPERATION

ANALYSING THE ENGINE ASSEMBLY

UNDERSTANDING THE DIAGNOSTIC INFORMATION AND PROCEDURE

UNDERSTANDING THE Fastener Tightening Specifications