

VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY



(Sponsored by SARASWATHI VIDYA PEETAM)

(Approved by AICTE, NEW DELHI, Affiliated to JNTUK, Kakinada)

Certified by ISO 9001:2015

EXPERIENTIAL LEARNING COURSES

B.TECH-MECHANICAL ENGINEERING

| S.NO | NAME OF THE COURSE |
|------|---|
| 1 | Computer Aided Engineering Drawing Practice |
| 2 | Fluid Mechanics & Hydraulic Machines Lab |
| 3 | Production Technology Lab |
| 4 | Drafting and Modeling Lab |
| 5 | Mechanics of Solids and Metallurgy Lab |
| 6 | Machine Drawing Practice |
| 7 | Theory of Machines Lab |
| 8 | Python Programming Lab |
| 9 | Thermal Engineering Lab |
| 10 | Theory of Machines Lab |
| 11 | Mechanical Measurements & Metrology Lab |
| 12 | Socially Relevant Project |
| 13 | Simulation of Mechanical Systems Lab |
| 14 | Heat Transfer Lab |
| 15 | CAD /CAM Lab |
| 16 | Summer Internship* |
| 17 | CAD/CAM Lab |
| 18 | Mechatronics Lab |
| 19 | Seminar |
| 20 | Project |

M.TECH-MACHINE DESIGN

| S.NO | NAME OF THE COURSE |
|------|------------------------|
| 1 | Dissertation Phase -I |
| 2 | Dissertation Phase -II |

B.TECH – CIVIL ENGINEERING

| S.NO | NAME OF THE COURSE |
|------|--------------------------------|
| 1 | Concrete Technology Lab |
| 2 | Highway Engineering Lab |
| 3 | Surveying Field Work – I (Lab) |
| 4 | Skill oriented course* |
| 5 | Environmental Engineering Lab |
| 6 | Strength of Material Lab |

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| 7 | Fluid Mechanics & Hydraulics Machinery Lab |
| 8 | Skill oriented course* |
| 9 | Concrete Technology Lab |
| 10 | Surveying Field Work - II |
| 11 | CAD Lab |
| 12 | Environmental Engineering Lab |
| 13 | Socially Relevant Project |
| 14 | GIS & CAD Lab |
| 15 | Irrigation Design & Drawing |
| 16 | Seminar on Internship Project |
| 17 | Project |

M.TECH-STRUCTURAL ENGINEERING

| S.NO | NAME OF THE COURSE |
|------|--|
| 1 | Advanced Concrete Technology Laboratory |
| 2 | Advanced Structural Engineering Laboratory |
| 3 | Computer Aided Design Laboratory |
| 4 | Structural Design laboratory |
| 5 | Mini Project With Seminar |
| 6 | Dissertation Phase-I / Industrial Project |
| 7 | Project / Dissertation Phase II |

B.TECH-COMPUTER SCIENCE ENGINEERING

| S.NO | NAME OF THE COURSE |
|------|---|
| 1 | Computer Engineering Workshop |
| 2 | English Communication Skills Laboratory |
| 3 | Applied Physics Lab |
| 4 | Programming for Problem Solving using C Lab |
| 5 | Applied Chemistry Lab |
| 6 | Python Programming Lab |
| 7 | Data Structures Lab |
| 8 | Object Oriented Programming through C++ Lab |
| 9 | Operating Systems Lab |
| 10 | Software Engineering Lab |
| 11 | Skill oriented Course - I 1) Applications of Python - Num Py 2) Web Application Development Using FullStack -Frontend Development – Module -I |
| 12 | Database Management Systems Lab |
| 13 | R Programming Lab |
| 14 | Java Programming Lab |
| 15 | Skill Oriented Course - II 1) Applications of Python-Pandas OR 2) Web Application Development Using |

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| | Full Stack -Frontend Development –Module-II |
| 16 | Computer Networks Lab |
| 17 | AI Tools & Techniques Lab |
| 18 | Data Mining Lab |
| 19 | Web Technologies Lab |
| 20 | Industrial Training / Skill Development Programmes / Research Project in higher learning institutes |
| 21 | Software Architecture& Design Patterns Lab |
| 22 | Web Technologies Lab |
| 23 | Seminar |
| 24 | Project |

M.TECH-COMPUTER SCIENCE ENGINEERING

| S.NO | NAME OF THE COURSE |
|------|--|
| 1 | Laboratory-1 Advanced Data Structures & Algorithms Lab |
| 2 | Laboartory-2 Advanced Computing Lab |
| 3 | Laboratory-3 Machine Learning with python lab |
| 4 | Laboartory-4 MEAN Stack Technologies Lab |
| 5 | Mini Project with Seminar |
| 6 | Dissertation-I/ Industrial Project |
| 7 | |

B.TECH-ELECTRONICS AND COMMUNICATION ENGINEERING

| S.NO | NAME OF THE COURSE |
|------|--|
| 1 | English Communication Skills Laboratory |
| 2 | Applied Chemistry Lab |
| 3 | Programming for Problem Solving Using C Lab |
| 4 | Electronic workshop Lab |
| 5 | Basic Electrical Engineering Lab |
| 6 | Applied Physics Lab |
| 7 | OOPS through Java Lab |
| 8 | Electronic Devices and Circuits -Lab |
| 9 | Switching Theory and Logic Design–Lab |
| 10 | Python Programming Lab |
| 11 | Electronic Circuit Analysis Lab |
| 12 | Analog Communications Lab |
| 13 | Digital IC Design Lab |
| 14 | Soft Skills |
| 15 | Linear Integrated Circuits and Applications -Lab |
| 16 | Digital Communications Lab |
| 17 | Microprocessor and Microcontrollers - Lab |

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| 18 | Mini Project with Hardware Development |
| 19 | VLSI Lab |
| 20 | Digital Signal Processing Lab |
| 21 | Micro Wave Engineering & Optical Lab |
| 22 | Digital Signal Processing Lab |
| 23 | Seminar |
| 24 | Project |

B.TECH-ELECTRICAL AND ELECTRONICS ENGINEERING

| S.NO | NAME OF THE COURSE |
|------|---|
| 1 | Electrical Circuits Lab |
| 2 | DC Machines and Transformers Lab |
| 3 | Electronic Devices and Circuits lab |
| 4 | Skill oriented course - Design of Electrical Circuits using Engineering Software Tools |
| 5 | Python Programming Lab |
| 6 | Induction and Synchronous Machines Lab |
| 7 | Digital Electronics Lab |
| 8 | Skill oriented course- IoT Applications of Electrical Engineering Lab |
| 9 | Electrical Machines-II Laboratory |
| 10 | Control Systems Laboratory |
| 11 | Electrical Measurements & Instrumentation Laboratory |
| 12 | Socially Relevant Projects |
| 13 | Power Electronics Laboratory |
| 14 | Microprocessors & Microcontrollers Laboratory |
| 15 | Electrical Simulation Laboratory |
| 16 | Power Systems & Simulation Laboratory |
| 17 | Seminar |
| 18 | Project |

M.TECH- POWER ELECTRONICS AND ELECTRICAL DRIVES

| S.NO | NAME OF THE COURSE |
|------|---|
| 1 | Power Electronics Simulation Laboratory |
| 2 | Power Converters Laboratory |
| 3 | Electric Drives Simulation Laboratory |
| 4 | Electric Drives Laboratory |
| 5 | Mini Project with Seminar |
| 6 | Dissertation Phase - I |
| 7 | Dissertation Phase-II |


B.TECH-AGRICULTURAL ENGINEERING

| S.NO | NAME OF THE COURSE |
|------|---|
| 1 | English and Communication Skills Lab |
| 2 | Soil Science and Agronomy Field Lab |
| 3 | Engineering Physics Laboratory |
| 4 | Programming for Problem Solving Using CLab |
| 5 | Engineering Chemistry Laboratory |
| 6 | Machine Drawing and Computer Graphics |
| 7 | Fluid Mechanics and Open Channel Hydraulics Lab |
| 8 | Field Operation and Maintenance of Tractors Lab |
| 9 | Agricultural Machinery Design using CAD/CAM Skill Oriented Course (Lab) |
| 10 | Heat and Mass Transfer Lab |
| 11 | Theory of Structures Lab |
| 12 | Soil Mechanics Lab |
| 13 | Industrial/Research Internship |
| 14 | Agricultural Process Engineering Lab |
| 15 | Soil and Water Engineering Lab |
| 16 | Farm Machinery Lab - I |
| 17 | Field Operation and Maintenance of Tractors Lab - II |
| 18 | Dairy and Food Engineering Lab |
| 19 | Farm Machinery Lab - 2 |
| 20 | Dairy and Food Engineering Lab |
| | Seminar |
| | Project |

MBA-MASTER OF BUSINESS ADMINISTRATION

| S.NO | NAME OF THE COURSE |
|------|---|
| 1 | Business Communication and Soft skills Lab |
| 2 | Information Technology –Lab I |
| 3 | IT-lab 2 (Programming R) |
| 4 | Industrial Project based on Summer Internship |
| 5 | Comprehensive Viva- voce |




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