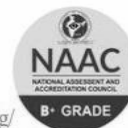


VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY



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EXPERIENTIAL LEARNING COURSES

B.TECH – CIVIL ENGINEERING

S.NO	NAME OF THE COURSE
1	IT Workshop
2	Engineering Physics Lab
3	Electrical & Electronics Engineering Workshop
4	Computer Programming Lab
5	NSS/NCC/Scouts & Guides/Community Service
6	Communicative English Lab
7	Engineering Chemistry / Chemistry / Fundamental Chemistry Lab
8	Engineering Workshop
9	Engineering Mechanics & Building Practices Lab/ Engineering Mechanics Lab/Network Analysis Lab/ Data structures Lab
10	Health and wellness, Yoga and Sports
11	Concrete Technology Lab
12	Highway Engineering Lab
13	Surveying Field Work – I (Lab)
14	Skill oriented course*
15	Environmental Engineering Lab
16	Strength of Material Lab
17	Fluid Mechanics & Hydraulics Machinery Lab
18	Professional Core courses Lab Survey Camp (Field work)
19	Professional Core courses Lab (GEOTECHNICAL ENGINEERING LAB)
20	Skill advanced course/ soft skill course* Design of Special Structure, Chimney, Hinge Tanks designs, spill ways etc.,
21	Professional Core courses Lab (ESTIMATION, COSTING AND CONTRACTS)
22	Professional Core courses Lab (REMOTE SENSING & GIS LAB)
23	Professional Core courses Lab CIVIL ENGINEERING PRACTICE
24	Skill advanced course/ soft skill course* Computational Tools
25	Industrial/Research Internship (Mandatory) 2 Months
26	Skill advanced course/ soft skill course* Project planning, town planning,
27	Industrial/Research Internship 2 Months (Mandatory) after third year (to be evaluated during VII semester)
28	Major Project

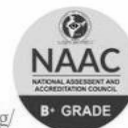
M.TECH-STRUCTURAL ENGINEERING

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	Dissertation Phase-I / Project
6	Project / Dissertation Phase II (Continued from III Semester)

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B.TECH-ELECTRICAL AND ELECTRONICS ENGINEERING

S.NO	NAME OF THE COURSE
1	Communicative English Lab
2	Engineering Chemistry/ Chemistry/Fundamental Chemistry Lab
3	Engineering Workshop
4	Computer Programming Lab
5	Health and wellness, Yoga and Sports
6	Engineering Physics Lab
7	Electrical and Electronics Engineering Workshop
8	Data Structures Lab / Electrical Circuit Analysis – I Lab
9	NSS/NCC/Scouts & Guides/Community Service
10	Electrical Circuits Lab
11	DC Machines and Transformers Lab
12	Electronic Devices and Circuits lab
13	Skill oriented course - Design of Electrical Circuits using Engineering Software Tools
14	Python Programming Lab
15	Induction and Synchronous Machines Lab
16	Digital Electronics Lab
17	Skill oriented course- IoT Applications of Electrical Engineering Lab
18	Control Systems Lab
19	Power Electronics Lab
20	Soft Skill Course: Employability Skills
21	Summer Internship 2 Months (Mandatory) after second year (to be evaluated during V semester)
22	Electrical Measurements and Instrumentation Lab
23	Microprocessors and Microcontrollers Lab
24	Power Systems and Simulation Lab
25	Skill Advanced Course: Machine Learning with Python
26	Skill Advanced Course Machine Learning with Python Lab
27	Industrial/ Research Internship 2 Months (Mandatory) after third year (to be evaluated during VII Semester)
28	Project work, seminar and internship in industry (6 Months)

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 (to be continued and evaluated next semester)
7	Dissertation Phase-II (continued from III semester)

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B.TECH-MECHANICAL ENGINEERING

S.NO	NAME OF THE COURSE
1	IT Workshop
2	Engineering Physics Lab
3	Electrical & Electronics Engineering Workshop
4	Computer Programming Lab
5	NSS/NCC/Scouts & Guides/Community Service
6	Communicative English Lab
7	Engineering Chemistry / Chemistry / Fundamental Chemistry Lab
8	Engineering Workshop
9	Engineering Mechanics & Building Practices Lab Engineering Mechanics Lab/Network Analysis Lab/ Data structures Lab
10	Health and wellness, Yoga and Sports
11	Computer Aided Engineering Drawing Practice
12	Fluid Mechanics & Hydraulic Machines Lab
13	Production Technology Lab
14	Drafting and Modeling Lab
15	Mechanics of Solids and Metallurgy Lab
16	Machine Drawing Practice
17	Theory of Machines Lab
18	Python Programming Lab
19	Machine Tools Lab
20	Thermal Engineering Lab
21	Advanced Communication Skills Lab
22	Heat Transfer Lab
23	CAE&CAM Lab
24	Measurements & Metrology Lab
25	Artificial Intelligence and Machine Learning Lab
26	Mechatronics Lab
27	Project work*

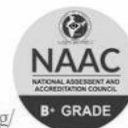
M.TECH-MACHINE DESIGN

S.NO	NAME OF THE COURSE
1	Machine Dynamics Lab
2	Design Practice Lab-I
3	Computational Mathematics Lab
4	Design Practice Lab-II
5	Mini Project with Seminar
6	Dissertation Phase -I
7	Dissertation Phase -II

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B.TECH-ELECTRONICS AND COMMUNICATION ENGINEERING

S.NO	NAME OF THE COURSE
1	IT Workshop
2	Engineering Physics Lab
3	Electrical & Electronics Engineering Workshop
4	Computer Programming Lab
5	NSS/NCC/Scouts & Guides/Community Service
6	Communicative English Lab
7	Engineering Chemistry / Chemistry / Fundamental Chemistry Lab
8	Engineering Workshop
9	Engineering Mechanics & Building Practices Lab/ Engineering Mechanics Lab/Network Analysis Lab/ Data structures Lab
10	Health and wellness, Yoga and Sports
11	OOPS through Java Lab
12	Electronic Devices and Circuits -Lab
13	Switching Theory and Logic Design–Lab
14	Python Programming
15	Electronic Circuit Analysis Lab
16	Analog Communications Lab
17	Digital IC Design Lab
18	Soft Skills
19	Analog ICs and Applications LAB
20	Digital Communications Lab
21	Data Structures using Java Lab
22	Microprocessor and Microcontrollers - Lab
23	VLSI Design Lab
24	Digital Signal Processing Lab
25	ARM based/ Aurdino based Programming
26	Designer tools (HFSS, Microwave Studio CST. Cadence Virtuoso. Synopsys, Mentor Graphics,Xilinx.)
27	Industrial/Research Internship 2 Months (Mandatory) after third year (to be evaluated during VII semester)
28	Project work, seminar and internship inindustry

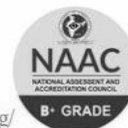
M.TECH-EMBEDDED SYSTEM

S.NO	NAME OF THE COURSE
1	Embedded System Design Lab(using Embedded-C)
2	Microcontrollers and Programmable Digital Signal Processors Lab
3	Real Time Operating Systems Lab
4	Digital System Design Lab
5	Mini Project - Dissertation Phase -I /Industrial Project to be continued and evaluated next
6	Project/ Dissertation Phase-II (continued from III semester)

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B.TECH-COMPUTER SCIENCE ENGINEERING

S.NO	NAME OF THE COURSE
1	Communicative English Lab
2	Engineering Chemistry/ Chemistry/Fundamental Chemistry Lab
3	Engineering Workshop
4	Computer Programming Lab
5	Health and wellness, Yoga and Sports
6	Engineering Physics Lab
7	Electrical and Electronics Engineering Workshop
8	Data Structures Lab / Electrical Circuit Analysis – I Lab
9	NSS/NCC/Scouts & Guides/Community Service
10	Object Oriented Programming through C++ Lab
11	Operating Systems Lab
12	Software Engineering Lab
13	Skill oriented Course - I 1) Applications of Python - Num Py 2) Web Application Development Using FullStack - Frontend Development – Module -I
14	Database Management Systems Lab
15	R Programming Lab
16	Java Programming Lab
17	Skill Oriented Course - II 1) Applications of Python-Pandas OR 2) Web Application Development Using Full Stack -Frontend Development –Module-II
18	Data Warehousing and Data Mining Lab
19	Computer Networks Lab
20	Skill Oriented Course - III 1. Animation course: Animation Design 2.Continuous Integration and Continuous Delivery using Dev Ops
21	Summer Internship 2 Months (Mandatory) after second year (to be evaluated during V semester
22	Machine Learning using Python Lab
23	Compiler Design Lab
24	Cryptography and Network Security Lab
25	Skill Oriented Course - IV 1. Big Data:Spark 2.MEAN Stack Technologies- Module I- MongoDB, Express.js, Angular JS Node.js and AJAX
26	1.PYTHON: Deep Learning /APSSDC offered Courses 2.MEAN Stack Technologies-Module II- MongoDB, Express.js, Angular JS Node.js, and AJAX
27	Industrial/Research Internship 2 months (Mandatory) after third year (to be evaluated during VII semester
28	Major Project Work, Seminar Internship

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M.TECH-COMPUTER SCIENCE ENGINEERING

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

B.TECH-AGRICULTURAL ENGINEERING

S.NO	NAME OF THE COURSE
1	Communicative English Lab
2	Engineering Chemistry / Chemistry / Fundamental Chemistry Lab
3	Engineering Workshop
4	Engineering Mechanics & Building Practices Lab Engineering Mechanics Lab/Network Analysis Lab/ Data structures Lab
5	Health and wellness, Yoga and Sports
6	Surveying and Leveling Lab
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	Analysis/Simulation using MATLAB Skill Oriented Course (Lab)
14	Industrial/Research Internship (Mandatory) 2 Months...to be evaluated in III year I semester
15	Theory of Machines Lab
16	Electrical Circuits Lab
17	Advanced Communication Skills Lab
18	Summer Internship 2 Months (Mandatory) after second year (to be evaluated during V semester)
19	Soil and Water Conservation Engineering Lab
20	Farm Machinery and Equipment Lab
21	Agricultural Process Engineering Lab
22	Computational Fluid Dynamics with FLUENT
23	Industrial/Research Internship 2 Months (Mandatory) after third year (to be evaluated during VII semester)
24	Major Project

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MBA-MASTER OF BUSINESS ADMINISTRATION

S.NO	NAME OF THE COURSE
1	IT - LAB
2	Mini Project
3	Project
4	Major Project & Comprehensive Viva

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