VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY
EXPERIENTIAL LEARNING COURSES

B.TECH-MECHANICAL ENGINEERING

S.NO	NAME OF THE COURSE
1	Engineering/Applied Chemistry Laboratory
2	English - Communication Skills Lab - I
3	Computer Programming Lab
4	English - Communication Skills Lab - II
5	Engineering /Applied Physics Lab
6	Engineering /Applied Physics – Virtual Labs - Assignments
7	Engg.Workshop& IT Workshop
8	Computer Aided Engineering Drawing Practice
9	Electrical & Electronics Engg. Lab
10	Mechanics of Solids & Metallurgy Lab
11	Fluid Mechanics & Hydraulic Machines Lab
12	Production Technology Lab
13	Theory of Machines Lab
14	Machine Tools Lab
15	Thermal Engineering Lab
16	Heat Transfer Lab
17	Metrology & Instrumentation Lab
18	Computational Fluid Dynamics Lab
19	CAD/CAM Lab
20	Mechatronics Lab
21	Project

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

B.TECH – CIVIL ENGINEERING

S.NO	NAME OF THE COURSE
1	Engineering/Applied Chemistry Laboratory
2	English - Communication Skills Lab - I
3	Computer Programming Lab
4	English - Communication Skills Lab - II
5	Engineering /Applied Physics Lab
6	Engineering / Applied Physics – Virtual Labs- Assignments
7	Engg. Workshop & IT Workshop

8	Survey Field Work - I
9	Strength of Materials Lab
10	FM & HM Lab
11	Survey Field Work - II
12	Concrete Technology Lab
13	Geology Lab
14	Transportation Engineering Lab
15	Geotechnical Engineering Lab
16	Environmental Engineering Lab
17	Computer Aided Engineering Lab
18	GIS & CAD Lab
19	Irrigation Design & Drawing
20	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)

B.TECH-COMPUTER SCIENCE ENGINEERING

S.NO	NAME OF THE COURSE
1	English - Communication Skills Lab - 1
2	Applied / Engineering Physics Lab
3	Applied / Engineering Physics – Virtual Labs
4	Computer Programming Lab
5	Applied / Engineering Chemistry Laboratory
6	English - Communication Skills Lab – 2
7	Object Oriented Programming Lab
8	Data Structures through C++Lab
9	Python Programming Lab
10	Advanced Data Structures Lab
11	Java Programming Lab
12	Unified Modeling Lab
13	Operating System & Linux Programming Lab
14	Database Management System Lab
15	Network Programming Lab
16	Software Testing Lab
17	Data Warehousing and Mining Lab
18	Software Architecture& Design Patterns Lab
19	Web Technologies Lab
20	Project

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-ELECTRONICS AND COMMUNICATION ENGINEERING

S.NO	NAME OF THE COURSE
1	Engineering Drawing
2	English - Communication Skills Lab -1
3	Applied / Engineering Physics Laboratory
4	Applied / Engineering Physics – Virtual Labs - Assignments
5	Engineering Workshop& IT Workshop
6	Applied / Engineering Chemistry Laboratory
7	English - Communication Skills Lab -2
8	Computer Programming Lab
9	Electronic Devices and Circuits Lab
10	Networks & Electrical Technology Lab
11	Electronic Circuit Analysis Lab
12	Analog Communications Lab
13	Pulse and Digital Circuits Lab
14	Linear I C Applications Lab
15	Digital I C Applications Lab
16	VLSI Lab
17	Digital Communications Lab
18	Micro Wave Engineering & Optical Lab
19	Digital Signal Processing Lab
20	Project

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
6	Dissertation Phase -I /Industrial Project (to be continued and evaluated next semester)
7	Project/ Dissertation Phase-II (continued from III semester)

B.TECH-ELECTRICAL AND ELECTRONICS ENGINEERING

S.NO	NAME OF THE COURSE
1	Engineering/Applied Chemistry Laboratory
2	English - Communication Skills Lab - I
3	Computer Programming Lab
4	English - Communication Skills Lab - II
5	Engineering /Applied Physics Lab
6	Engineering /Applied Physics – Virtual Labs - Assignments
7	Engg.Workshop & IT Workshop
8	Thermal and Hydro Laboratory
9	Electrical Circuits Laboratory
10	Electrical Machines -I Laboratory
11	Electronic Devices & Circuits Laboratory
12	Laboratory
13	Socially Relevant Projects
14	Power Electronics Laboratory
15	Microprocessors & Microcontrollers Laboratory
16	Linear & Digital IC Applications Laboratory
17	Power Systems& Simulation Laboratory
18	Industrial Training /Skill Development Programmes / Research Project
19	Project-I
20	Project-II

M.TECH- POWER ELECTRONICS AND ELECTRICAL DRIVES

S.NO	NAME OF THE COURSE
1	PowerElectronicsSimulationLaboratory
2	PowerConvertersLaboratory
3	ElectricDrivesSimulationLaboratory
4	ElectricDrivesLaboratory
5	MiniProjectwithSeminar
6	DissertationPhase-I (to becontinuedandevaluatednextsemester)
7	DissertationPhase-II (continued fromIIIsemester)

B.TECH-AGRICULTURAL ENGINEERING

S.NO	NAME OF THE COURSE
1	English - Communication Skills Lab - I
2	Engineering/applied physics laboratory
3	Engineering/applied physics laboratory - virtual labs - assignments
4	Engineering workshop and IT workshop
5	Engineering/applied Chemistry laboratory
6	English - Communication Skills Lab - II
7	C Programming Lab

8	Fluid Mechanics and Open Channel Hydraulics Lab
9	Surveying Lab
10	Soil science and agronomy field lab
11	Machine drawing and computer graphics lab
12	Agricultural Process Engineering lab
13	Advanced english communications skills lab
14	Field operations and maintenance of tractors lab - I
15	Farm machinery lab -I
16	Field operations and maintenance of tractors lab - II
17	Soil and water engineering lab
18	Farm Machinery Lab - 2
19	Dairy and Food Engineering Lab
20	Project work

MBA-MASTER OF BUSINESS ADMINISTRATION

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