



VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

Sponsored by Lavu Educational Society, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad.

Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301 TS INDIA

Phone: +08615 200006/07/08

Email: info@vmtw.in

Department of Basic Science & Humanities

AY: 2018-19

I-B.Tech I Semester (R18 Regulation)

SUBJECT: MATHEMATICS-1 (MA101BS)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
MA101BS.1	Student will be able to solve the system of linear equations by representing them in matrix form and analyze its solution which requires in engineering problems	3
MA101BS.2	Student will be able to solve the Eigen values and Eigen vectors & reduce the quadratic form to canonical form using orthogonal transformations	3,4
MA101BS.3	Analyse the nature of sequence and series	3
MA101BS.4	Mean value theorem, Beta & Gamma functions, its application in Engineering	1
MA101BS.5	Extreme values of functions of two variables with/ without constraints	3

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
MA101BS.1	3	3	3	2	2	1	-	-	-	1	1	1	1	2	1
MA101BS.2	3	2	2	2	1	1	-	-	-	1	2	1	2	1	3
MA101BS.3	3	3	2	2	1	1	-	-	1	1	2	1	1	2	3
MA101BS.4	3	3	2	2	2	1	-	-	1	1	1	1	3	3	1
MA101BS.5	3	2	3	3	2	1	-	-	1	1	1	1	2	1	3
Average	3	2.6	2.4	2.2	1.6	1	0	0	1	1	1.4	1	1.8	1.8	2.2



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Department of Basic Science & Humanities

AY: 2018-19

I-B.Tech I Semester (R18 Regulation)

SUBJECT: APPLIED PHYSICS (AP102BS)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
AP102BS.1	The student would be able to learn the fundamental concepts on Quantum behaviour of matter in its micro state.	1
AP102BS.2	The knowledge of fundamentals of Semiconductor physics, Optoelectronics, Lasers and fibre optics enable the students to apply to various systems like communications, solar cell, photo cells and so on.	1,3
AP102BS.3	Design, characterization and study of properties of material help the students to prepare new materials for various engineering applications.	1
AP102BS.4	Students will be able to demonstrate competency and understanding of the concepts found in Fiber optics and lasers.	2
AP102BS.5	The course also helps the students to be exposed to the phenomena of electromagnetism and also to have exposure on magnetic materials and dielectric materials.	1

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
AP102BS.1	3	3	3	3	2	-	2	1	-	-	-	1	3	2	1
AP102BS.2	3	3	3	3	2	-	2	1	-	-	-	1	-	1	2
AP102BS.3	3	3	3	3	2	-	2	1	-	-	-	1	3	2	1
AP102BS.4	3	3	3	3	2	-	2	1	-	-	-	1	3	3	-
AP102BS.5	3	3	3	3	2	-	2	1	-	-	-	1	3	2	1
Average	3	3	3	3	2	0	2	1	0	0	0	1	3	2	1.25



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AY: 2018-19

I-B.Tech I Semester (R18 Regulation)

SUBJECT: PROGRAMMING FOR PROBLEM SOLVING (CS103ES)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
CS103ES.1	Develop the flow charts and algorithms, and then implement, compile and debug programs in C language for solving a problem	6
CS103ES.2	Design programs involving decision structures, loops for problem solving	6
CS103ES.3	Design programs to develop applications using array data structure	6
CS103ES.4	Solve scientific problems using functions	3
CS103ES.5	Make use of pointers to design applications for efficient and dynamic memory allocation	3,6

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CS103ES.1	3	3	3	3	1	2	1	-	1	3	1	1	2	3	-
CS103ES.2	2	3	2	3	1	-	1	1	-	2	-	1	2	2	1
CS103ES.3	2	3	2	3	-	1	-	-	1	2	-	-	2	2	-
CS103ES.4	3	3	3	3	1	2	1	1	-	3	1	1	2	3	1
CS103ES.5	3	2	3	2	1	2	1	-	-	3	1	1	2	3	-
Average	2.6	2.8	2.6	2.8	1	1.7	1	1	1	2.6	1	1	2	2.6	1



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I-B.Tech I Semester (R18 Regulation)

SUBJECT: ENGINEERING GRAPHICS (ME104ES)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
ME104ES.1	Student are able to draw various engineering curves in different methods and learned methods of dimensioning	1
ME104ES.2	Students can draw the first and third angle projections of points, lines and planes.	1
ME104ES.3	Students are able to draw the projections of solids.	1
ME104ES.4	Students are able to draw the projections of sections and developments of solids.	1,6
ME104ES.5	Students are able to draw the isometric views and convert isometric to orthographic and vice versa.	1,6

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
ME104ES.1	1	1	-	-	-	1	-	-	-	1	-	-	2	1	1
ME104ES.2	1	2	1	1	1	1	-	-	-	1	-	-	-	1	3
ME104ES.3	1	3	3	1	2	1	-	-	1	1	-	2	2	2	1
ME104ES.4	1	3	3	1	2	1	-	1	1	1	1	2	2	1	-
ME104ES.5	1	2	2	1	3	1	1	1	1	1	1	2	2	1	1
Average	1	2.2	2.2	1	2	1	1	1	1	1	1	2	2	1.2	1.5



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I-B.Tech I Semester (R18 Regulation)

SUBJECT: APPLIED PHYSICS LAB (AP105BS)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
AP105BS.1	To develop experimentation skills and understand importance of measurement practices in Science & Technology.	2,6
AP105BS.2	Develop analytical skills for interpreting data and drawing inferences.	6
AP105BS.3	Understand nature of experimental errors and practical means to estimate errors in acquired data.	2
AP105BS.4	Develop skills for team work and technical communication and discussions.	6
AP105BS.5	Apply theoretical principles of modern physics to analysis and measurements performed in the laboratory.	3

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
AP105BS.1	3	3	3	3	2	-	2	1	-	-	-	1	3	3	1
AP105BS.2	3	3	3	3	2	-	2	1	-	-	-	1	2	2	2
AP105BS.3	3	3	3	3	2	-	2	1	-	-	-	1	1	1	-
AP105BS.4	3	3	3	3	2	-	2	1	-	-	-	1	3	2	1
AP105BS.5	3	3	3	3	2	-	2	1	-	-	-	1	3	2	1
Average	3	3	3	3	2	0	2	1	0	0	0	1	2.4	2	1.25



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I-B.Tech I Semester (R18 Regulation)

SUBJECT: PROGRAMMING FOR PROBLEM SOLVING LAB (CS106ES)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
CS106ES.1	Implement, compile and debug programs in C language for solving a problem	3
CS106ES.2	Design programs involving decision structures, loops for problem solving	6
CS106ES.3	Design programs to develop applications using array data structure	3,6
CS106ES.4	Apply functions to solve real world problems	3
CS106ES.5	Make use of pointers to design applications with efficient use of memory	6

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CS106ES.1	1	-	-	3	-	-	-	-	3	-	-	-	-	2	1
CS106ES.2	1	1	-	3	1	-	2	-	2	-	1	2	2	3	1
CS106ES.3	2	-	-	3	-	-	2	-	2	-	-	-	3	2	2
CS106ES.4	-	3	-	3	1	-	3	-	-	-	1	1	1	-	-
CS106ES.5	-	-	-	3	-	-	-	-	-	-	-	-	-	2	3
Average	1.33	2	0	3	1	0	2.3	0	2.3	0	1	1.5	2	2.25	1.75



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I-B.Tech I Semester (R18 Regulation)

SUBJECT: BASIC ELECTRICAL ENGINEERING (EE103ES)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
EE103ES.1	Analyze and solve electric and magnetic circuits.	3
EE103ES.2	Understand the principles of operation of DC machines, single phase transformers and three phase induction motors	2
EE103ES.3	Identify the starting methods of starting synchronous and induction motors and speed control methods for DC motors	3
EE103ES.4	Understand the principle of operation of moving coil, moving iron and dynamometer type instruments	2
EE103ES.5	Understand the components of Low Voltage Electrical Installations	2

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
EE103ES.1	2	3	3	3	2	1	1	2	1	1	2	3	2	3	1
EE103ES.2	2	3	3	3	2	1	1	1	1	1	1	3	3	-	-
EE103ES.3	3	2	2	1	-	-	1	-	1	-	-	-	3	2	1
EE103ES.4	3	2	2	1	-	-	1	-	1	-	-	-	1	3	1
EE103ES.5	3	2	2	1	-	-	1	-	1	-	-	-	3	2	1
Average	2.6	2.4	2.4	1.8	2	1	1	1.5	1	1	1.5	3	2.4	2.5	1



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I-B.Tech I Semester (R18 Regulation)

SUBJECT: ENVIRONMENTAL SCIENCE (MC109ES)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
MC109ES.1	understand technologies on the basis of ecological principles and environmental regulations	2
MC109ES.2	evaluate technologies on the basis of ecological principles and environmental regulations	5,6
MC109ES.3	develop technologies on the basis of ecological principles and environmental regulations	3,6
MC109ES.4	understand the impacts of developmental activities and mitigation measures	2
MC109ES.5	understand the importance of ecological balance for sustainable development	2

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
MC109ES.1	1	1	-	1	2	3	3	2	2	3	2	3	-	-	2
MC109ES.2	1	1	1	1	1	3	3	2	2	3	2	3	-	-	1
MC109ES.3	1	-	1	1	2	3	3	2	2	3	2	3	1	1	2
MC109ES.4	1	1	1	1	2	2	3	2	2	2	2	2	-	-	2
MC109ES.5	1	1	1	2	2	2	3	2	2	3	2	2	-	-	2
Average	1	1	1	1.2	1.8	2.6	3	2	2	2.8	2	2.6	1	1	1.8



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I-B.Tech II Semester (R18 Regulation)

SUBJECT: MATHEMATICS-II (MA201BS)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
MA201BS.1	Student will be able to apply Laplace transforms to solve initial value problems used in different areas of engineering	3
MA201BS.2	Student will be able to evaluate improper integrals using Beta and Gamma functions	5,6
MA201BS.3	Multiple integrals and can apply these concepts to find the area and volume of various regions using double and triple integrals.	1,3
MA201BS.4	Students will able to learn fundamental vector calculus apply those logics in the fields like gravitation and electric fields	3
MA201BS.5	Students will able to evaluate the line, surface and volume integrals and converting them from one to another	6

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
MA201BS.1	3	3	3	2	2	1	-	-	-	1	1	2	1	2	-
MA201BS.2	3	2	3	3	1	1	-	-	-	1	2	1	2	3	3
MA201BS.3	3	3	2	2	2	1	-	-	1	2	2	1	3	-	2
MA201BS.4	3	2	2	2	2	1	-	-	1	1	1	1	-	1	3
MA201BS.5	3	2	2	2	2	1	-	-	1	1	1	1	1	1	3
Average	3	2.4	2.4	2.2	1.8	1	0	0	1	1.2	1.4	1.2	1.75	1.75	2.75



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I-B.Tech II Semester (R18 Regulation)

SUBJECT: CHEMISTRY (CH202BS)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
CH202BS.1	To bring adaptability to the concepts of chemistry and to acquire the required skills to become a perfect engineer.	1
CH202BS.2	To impart the basic knowledge of atomic, molecular and electronic modifications which makes the student to understand the technology based on them	1,2
CH202BS.3	To acquire the knowledge of electrochemistry, corrosion and water treatment which are essential for the Engineers and in industry.	1,3
CH202BS.4	To acquire the skills pertaining to spectroscopy and to apply them for medical and other fields	1,3
CH202BS.5	To impart the knowledge of stereochemistry and synthetic aspects useful for understanding reaction pathways	1,2,3

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CH202BS.1	2	1	1	1	1	-	-	-	1	1	2	3	2	3	3
CH202BS.2	1	1	1	1	1	3	3	3	-	1	1	1	1	1	2
CH202BS.3	1	3	3	1	3	2	-	-	1	1	1	1	2	-	3
CH202BS.4	2	1	1	1	2	3	-	-	-	2	1	2	-	3	2
CH202BS.5	3	3	2	3	3	3	-	-	1	2	3	2	2	1	3
Average	1.8	1.8	1.6	1.4	2	2.7	3	3	1	1.4	1.6	1.8	1.75	2	2.6



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I-B.Tech II Semester (R18 Regulation)

SUBJECT: BASIC ELECTRICAL ENGINEERING (EE203ES)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
EE203ES.1	Analyze and solve electric and magnetic circuits.	3
EE203ES.2	Understand the principles of operation of DC machines, single phase transformers and three phase induction motors	2
EE203ES.3	Identify the starting methods of starting synchronous and induction motors and speed control methods for DC motors	3
EE203ES.4	Understand the principle of operation of moving coil, moving iron and dynamometer type instruments	2
EE203ES.5	Understand the components of Low Voltage Electrical Installations	2

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
EE203ES.1	2	3	3	3	2	1	1	2	1	1	2	3	2	3	1
EE203ES.2	2	3	3	3	2	1	1	1	1	1	1	3	3	-	-
EE203ES.3	3	2	2	1	-	-	1	-	1	-	-	-	3	2	1
EE203ES.4	3	2	2	1	-	-	1	-	1	-	-	-	1	3	1
EE203ES.5	3	2	2	1	-	-	1	-	1	-	-	-	3	2	1
Average	2.6	2.4	2.4	1.8	2	1	1	1.5	1	1	1.5	3	2.4	2.5	1



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I-B.Tech II Semester (R18 Regulation)

SUBJECT: ENGINEERING WORKSHOP (ME205ES)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
ME205ES.1	Ability to understand the purpose of all the components of a computer system	2
ME205ES.2	Ability to assemble and disassemble the computer system	1
ME205ES.3	Ability to install and use different operation systems like windows, linux	3
ME205ES.4	Ability to create the documents, power point presentations and excel sheets	6
ME205ES.5	Ability to design the web sites	6

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
ME205ES.1	3	1	3	-	2	-	-	-	2	2	-	3	2	1	3
ME205ES.2	2	2	3	-	-	-	-	-	2	2	-	2	1	2	1
ME205ES.3	2	2	1	-	1	-	-	-	2	2	-	2	-	1	-
ME205ES.4	3	2	2	2	-	-	2	-	2	3	-	2	2	-	2
ME205ES.5	3	2	3	-	-	-	3	-	2	3	-	3	3	1	1
Average	2.6	1.8	2.4	2	1.5	0	2.5	0	2	2.4	0	2.4	2	1.25	1.75



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I-B.Tech II Semester (R18 Regulation)

SUBJECT: ENGLISH (EN205HS)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
EN205HS.1	Use English Language Effectively in Spoken and Written Forms.	3
EN205HS.2	Comprehend the given text and respond appropriately.	2
EN205HS.3	Communicate confidently in formal and informal contexts.	4
EN205HS.4	Acquire basic proficiency in English including reading and listening comprehension, writing and speaking skills.	6
EN205HS.5	The vocabulary skills of the students will be developed to guess the meanings of the words in different contexts and finally in grasping the overall message of the text.	6
EN205HS.6	To express themselves fluently and appropriately in social and professional contexts.	1

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
EN205HS.1	-	1	-	1	1	2	3	3	2	3	3	3	-	-	3
EN205HS.2	-	1	-	1	1	2	1	2	1	2	2	1	-	-	3
EN205HS.3	3	1	1	1	-	3	1	3	3	3	3	3	2	2	3
EN205HS.4	-	-	1	-	2	1	1	2	2	3	2	2	-	-	2
EN205HS.5	-	-	-	1	1	1	1	1	-	1	1	1	1	1	2
Average	3	1	1	1	1.2	1.8	1.4	2.2	2	2.4	2.2	2	1.5	1.5	2.6



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Phone: +08615 200006/07/08

Email: info@vmtw.in

Department of Basic Science & Humanities

AY: 2018-19

I-B.Tech II Semester (R18 Regulation)

SUBJECT: ENGINEERING CHEMISTRY LAB (CH206BS)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
CH206BS.1	Synthesize polymers	1
CH206BS.2	Analyze ores and bleaching powder	4
CH206BS.3	Estimate the Hardness of water in terms of Calcium and Magnesium ions	5
CH206BS.4	Separate organic compounds using chromatographic techniques	6
CH206BS.5	Standardize solutions using titration, conductivity meter, Ph-meter, potentiometer and colorimeter	6

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CH206BS.1	1	1	1	1	2	3	3	2	2	3	2	3	-	-	2
CH206BS.2	1	1	1	1	1	3	3	2	2	3	2	3	-	-	1
CH206BS.3	2	-	1	-	-	3	3	2	2	3	2	3	1	1	2
CH206BS.4	2	1	1	1	2	2	3	2	2	2	2	-	-	-	2
CH206BS.5	2	1	1	2	2	2	3	2	2	3	2	2	-	-	2
Average	1.6	1	1	1.2	1.7	2.6	3	2	2	2.8	2	2.7	1	1	1.8



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Department of Basic Science & Humanities

AY: 2018-19

I-B.Tech II Semester (R18 Regulation)

SUBJECT: ENGLISH LANGUAGE AND COMMUNICATION SKILLS LAB (EN207HS)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
EN207HS.1	Better understanding of nuances of language through audio0visual experience and group activities.	2
EN207HS.2	Neutralization of accent for intelligibility.	1
EN207HS.3	Speaking with clarity and confidence thereby enhancing employability skills of the students.	1
EN207HS.4	Build self –confidence and art of presentations	3
EN207HS.5	Overcome stage fear, develop team playing	6

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
EN207HS.1	3	2	1	3	3	2	2	3	3	3	3	3	-	1	1
EN207HS.2	3	2	1	3	3	2	2	3	3	3	3	3	-	2	1
EN207HS.3	3	2	1	3	3	2	2	3	3	3	3	3	1	-	1
EN207HS.4	3	2	1	3	3	2	2	3	3	3	3	3	1	2	1
EN207HS.5	3	2	1	3	3	2	2	3	3	3	3	3	-	2	1
Average	3	2	1	3	3	2	2	3	3	3	3	3	1	1.75	1



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Department of Basic Science & Humanities

AY: 2018-19

I-B.Tech II Semester (R18 Regulation)

SUBJECT: BASIC ELECTRICAL ENGINEERING LAB (EE208ES)

After going through this course, the student gets a thorough knowledge on

COURSE OUTCOMES:

S.No.	COURSE OUTCOMES	B.T. LEVEL
EE208ES.1	Study different meters and instruments for measurement of electrical quantities	5
EE208ES.2	Study the linear and nonlinear characteristics of different types of loads experimentally	1
EE208ES.3	Design and experiment potential divider circuits	6
EE208ES.4	Experimentally verify the basic circuit theorems	6
EE208ES.5	Measure power and power factor in ac circuits	5

MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
EE208ES.1	3	2	1	-	1	-	-	-	2	-	2	2	2	1	1
EE208ES.2	3	2	1	-	3	1	-	1	1	2	1	2	1	3	-
EE208ES.3	3	2	1	1	3	2	-	-	1	-	2	2	2	-	1
EE208ES.4	2	2	2	2	-	2	1	-	2	2	1	1	3	2	2
EE208ES.5	2	2	2	2	-	2	1	1	2	2	1	1	2	1	1
Average	2.6	2	1.4	1.6	2.3	1.7	1	1	1.6	2	1.4	1.6	2	1.75	1.25