



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 Phone: +91 96529 10002/3



Department of Computer Science and Engineering

I B. Tech I Semester

SUBJECT: Mathematics – I (MA101BS)

At the end of the course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
CO1	Solve the system of linear equations by representing them in matrix form and analyzing the solution which requires engineering problems	1
CO2	Solve the Eigen values and Eigen vectors & reduce the quadratic form to canonical form using orthogonal transformations	3
CO3	Analyze the nature of sequence and series	2
CO4	Mean value theorem, Beta & Gamma functions, its application in Engineering	4
CO5	Extreme values of functions of two variables with/ without constraints	5

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	3	2	-	-	-	-	-	3	-	3	2	-
CO2	3	3	2	3	-	-	-	-	-	-	2	-	3	2	-
CO3	3	3	2	2	-	-	-	-	-	-	2	-	2	2	-
CO4	3	3	3	2	2	-	-	-	-	-	3	-	3	2	-
CO5	3	2	2	3	2	-	-	-	-	-	3	-	3	2	-
Average	3	2.8	2.4	2.6	2	-	-	-	-	-	2.6	-	2.8	2	-



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 Phone: +91 96529 10002/3



SUBJECT: Chemistry (CH102BS)

At the end of the course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
CO1	Bring adaptability to the concepts of chemistry and to acquire the required skills to become a perfect engineer.	1
CO2	Impart the basic knowledge of atomic, molecular and electronic modifications which makes the student to understand the technology based on them	2
CO3	Acquire the knowledge of electrochemistry, corrosion and water treatment which are essential for the Engineers and in industry.	3
CO4	Acquire the skills pertaining to spectroscopy and to apply them for medical and other fields	5
CO5	Impart the knowledge of stereochemistry and synthetic aspects useful for understanding reaction pathways	4

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	2	-	-	-	-	-	-	-	-	3	-	2	1
CO2	2	3	2	-	-	-	-	-	-	-	-	2	-	3	1
CO3	3	2	2	-	-	-	-	-	-	-	-	3	1	3	2
CO4	3	3	1	-	-	-	-	-	-	-	-	3	2	3	2
CO5	2	2	2	-	-	-	-	-	-	-	-	3	1	1	1
Average	2.4	2.6	1.8	-	-	-	-	-	-	-	-	2.8	1.333	2.4	1.4



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 Phone: +91 96529 10002/3



SUBJECT: Basic Electrical Engineering (EE103ES)

At the end of the course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
CO1	Analyze and solve electric and magnetic circuits.	2
CO2	Understand the principles of operation of DC machines, single phase transformers and three phase induction motors	2
CO3	Identify the starting methods of starting synchronous and induction motors and speed control methods for DC motors	1
CO4	Understand the principle of operation of moving coil, moving iron and dynamometer type instruments	3
CO5	Understand the components of Low Voltage Electrical Installations	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	-	2	-	-	2	2	-	-	3	3	3
CO2	3	2	2	2	-	2	-	-	2	2	-	-	3	3	3
CO3	2	2	2	2	-	2	-	-	2	2	-	-	3	3	3
CO4	2	2	2	2	-	2	-	-	2	2	-	-	2	3	3
CO5	2	2	2	2	-	2	-	-	2	2	-	-	3	3	3
Average	2.4	2	2	2	-	2	-	-	2	2	-	-	2.8	3	3



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 Phone: +91 96529 10002/3



SUBJECT: Engineering Workshop (ME105ES)

At the end of the course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
CO1	Study and practice on machine tools and their operations	1
CO2	Practice on manufacturing of components using workshop trades including plumbing, fitting.	2
CO3	Practice on manufacturing components using workshop trades including carpentry, foundry, house wiring and welding.	4
CO4	Identify and apply suitable tools for different trades of Engineering processes including drilling, material removing, measuring, chiselling.	4
CO5	Apply basic electrical engineering knowledge for house wiring practice.	3

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	3	-	3	-	-	-	3	2	-	3	-	-	-
CO2	2	-	3	-	3	-	-	-	3	2	-	2	-	-	-
CO3	3	-	2	-	2	-	-	-	2	2	-	2	-	-	-
CO4	3	-	2	-	2	-	-	-	2	3	-	2	-	-	-
CO5	3	-	3	-	2	-	-	-	2	3	-	3	-	-	-
Average	2.6	-	2.6	-	2.4	-	-	-	2.4	2.4	-	2.4	-	-	-



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 Phone: +91 96529 10002/3



SUBJECT: English (EN105HS)

At the end of the course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
CO1	Use English Language Effectively in Spoken and Written Forms.	1
CO2	Comprehend the given text and respond appropriately.	2
CO3	Communicate confidently in formal and informal contexts.	3
CO4	Acquire basic proficiency in English including reading and listening comprehension, writing and speaking skills.	3
CO5	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.	4

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	-	-	-	3	-	3	2	3	-	3	-	3	2
CO2	2	-	-	-	-	2	-	2	1	3	-	2	-	2	2
CO3	2	-	-	-	-	3	-	3	3	3	-	3	-	3	3
CO4	2	-	-	-	-	2	-	2	2	3	-	2	-	2	2
CO5	2	-	-	-	-	2	-	3	-	3	-	2	-	2	1
Average	2	-	-	-	-	2.4	-	2.6	2	3	-	2.4	-	2.4	2



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 Phone: +91 96529 10002/3



SUBJECT: Engineering Chemistry Lab (CH106BS)

At the end of the course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
CO1	Synthesize polymers	1
CO2	Analyze ores and bleaching powder	2
CO3	Estimate the Hardness of water in terms of Calcium and Magnesium ions	3
CO4	Separate organic compounds using chromatographic techniques	4
CO5	Standardize solutions using titration, conductivity meter, pH-meter, potentiometer and colorimeter	5

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	-	-	-	-	-	-	2	-	-	-	-	3	1
CO2	2	3	-	-	-	-	-	-	1	-	-	-	-	1	2
CO3	2	2	-	-	-	-	-	-	3	-	-	-	-	3	2
CO4	3	2	-	-	-	-	-	-	2	-	-	-	-	2	1
CO5	2	3	-	-	-	-	-	-	3	-	-	-	-	3	1
Average	2.4	2.6	-	-	-	-	-	-	2.2	-	-	-	-	2.4	1.4



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 Phone: +91 96529 10002/3



SUBJECT: English Language and Communication Skills Lab (EN107HS)

At the end of the course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
CO1	Better understanding of nuances of language through audio-visual experience and group activities.	2
CO2	Neutralization of accent for intelligibility.	2
CO3	Speaking with clarity and confidence thereby enhancing employability skills of the students.	1
CO4	Build self –confidence and art of presentations	4
CO5	Overcome stage fear, develop team playing	5

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	3	3	3	-	3	-	3	-
CO2	-	-	-	-	-	-	-	2	3	3	-	3	-	1	-
CO3	-	-	-	-	-	-	-	3	3	3	-	3	-	3	2
CO4	-	-	-	-	-	-	-	2	3	3	-	3	3	2	2
CO5	-	-	-	-	-	-	-	2	3	3	-	3	-	2	3
Average	-	-	-	-	-	-	-	2.4	3	3	-	3	3	2.2	2.3



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 Phone: +91 96529 10002/3



SUBJECT: Basic Electrical Engineering Lab (EE108ES)

At the end of the course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
CO1	Study different meters and instruments for measurement of electrical quantities	1
CO2	Study the linear and nonlinear characteristics of different types of loads experimentally	2
CO3	Design and experiment potential divider circuits	3
CO4	Experimentally verify the basic circuit theorems	5
CO5	Measure power and power factor in ac circuits	5

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	2	2	-	2	2	-	2	2	-	3	3	3	3
CO2	3	3	2	3	-	2	2	-	2	2	-	3	2	3	1
CO3	3	3	3	2	-	2	2	-	2	2	-	2	3	3	3
CO4	3	2	3	3	-	2	2	-	2	2	-	3	3	3	3
CO5	3	2	2	3	-	2	3	-	2	2	-	2	3	3	3
Average	2.8	2.6	2.4	2.6	-	2	2.2	-	2	2	-	2.6	2.8	3	2.6