



# 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 - Malkajiri (D) - 501 301 Phone: +91 96529 10002/3



## Department of Basic Science & Humanities

AY : 2022-23

I-B.Tech I Semester (R22 Regulation)

### SUBJECT: MATRICES & CALCULUS (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 analyse 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	Mean value theorem, Beta & Gamma functions, its application in Engineering	3
MA101BS.4	Extreme values of functions of two variables with/ without constraints	1
MA101BS.5	Evaluate the multiple integrals and apply the concept to find areas, volumes	1,3,6

### 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
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
<b>Average</b>	<b>3</b>	<b>2.6</b>	<b>2.4</b>	<b>2.2</b>	<b>1.6</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1.4</b>	<b>1</b>	<b>1.8</b>	<b>1.8</b>	<b>2.2</b>



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## Department of Basic Science & Humanities

AY : 2022-23

### I-B.Tech I Semester (R22 Regulation)

#### SUBJECT: APPLIED PHYSICS (PH102BS)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
PH102BS.1	Understand physical world from fundamental point of view by the concepts of Quantum mechanics and visualize the difference between conductor, semiconductor, and an insulator by classification of solids.	1
PH102BS.2	Identify the role of semiconductor devices in science and engineering Applications.	1,3
PH102BS.3	Explore the fundamental properties of dielectric, magnetic materials and energy for their applications.	1
PH102BS.4	Appreciate the features and applications of Nanomaterials.	2
PH102BS.5	Understand various aspects of Lasers and Optical fiber and their applications in diverse fields.	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
PH102BS.1	3	3	3	3	2	-	2	1	-	-	-	1	3	2	1
PH102BS.2	3	3	3	3	2	-	2	1	-	-	-	1	-	1	2
PH102BS.3	3	3	3	3	2	-	2	1	-	-	-	1	3	2	1
PH102BS.4	3	3	3	3	2	-	2	1	-	-	-	1	3	3	-
PH102BS.5	3	3	3	3	2	-	2	1	-	-	-	1	3	2	1
<b>Average</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1.25</b>



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## Department of Basic Science & Humanities

AY : 2022-23

### I-B.Tech I Semester (R22 Regulation)

#### SUBJECT: APPLIED PHYSICS LAB (PH107BS)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
PH107BS.1	Know the determination of the Planck's constant using Photo electric effect and identify the material whether it is n-type or p-type by Hall experiment.	5
PH107BS.2	Appreciate quantum physics in semiconductor devices and optoelectronics.	5
PH107BS.3	Gain the knowledge of applications of dielectric constant.	1
PH107BS.4	Understand the variation of magnetic field and behaviour of hysteresis curve.	2
PH107BS.5	Carried out data analysis.	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
PH107BS.1	3	3	3	3	2	-	2	1	-	-	-	1	3	3	1
PH107BS.2	3	3	3	3	2	-	2	1	-	-	-	1	2	2	2
PH107BS.3	3	3	3	3	2	-	2	1	-	-	-	1	1	1	-
PH107BS.4	3	3	3	3	2	-	2	1	-	-	-	1	3	2	1
PH107BS.5	3	3	3	3	2	-	2	1	-	-	-	1	3	2	1
<b>Average</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>2.4</b>	<b>2</b>	<b>1</b>



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## Department of Basic Science & Humanities

AY : 2022-23

### I-B.Tech I Semester (R22 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	To write algorithms and to draw flowcharts for solving problems.	6
CS103ES.2	To code and test, a given logic in the C programming language.	5,6
CS103ES.3	To decompose a problem into functions and to develop modular reusable code.	6
CS103ES.4	To use arrays, pointers, strings and structures to write C programs.	6
CS103ES.5	Searching and sorting problems.	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
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	-
<b>Average</b>	<b>2.6</b>	<b>2.8</b>	<b>2.6</b>	<b>2.8</b>	<b>0.8</b>	<b>1.4</b>	<b>0.8</b>	<b>0.2</b>	<b>0.2</b>	<b>2.6</b>	<b>0.6</b>	<b>0.8</b>	<b>2</b>	<b>2.6</b>	<b>0.4</b>



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### I-B.Tech I Semester (R22 Regulation)

#### SUBJECT: PROGRAMMING FOR PROBLEM SOLVING LAB (CS108ES)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
CS108ES.1	Formulate the algorithms for simple problems	6
CS108ES.2	Correct syntax errors as reported by the compilers	1
CS108ES.3	Represent and manipulate data with arrays, strings and structures	4
CS108ES.4	Create, read and write to and from simple text and binary files	6
CS108ES.5	Modularize the code with functions so that they can be reused	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
CS108ES.1	1	-	-	3	-	-	-	-	3	-	-	-	-	2	1
CS108ES.2	1	1	-	3	1	-	2	-	2	-	1	2	2	3	1
CS108ES.3	2	-	-	3	-	-	2	-	2	-	-	-	3	2	2
CS108ES.4	-	3	-	3	1	-	3	-	-	-	1	1	1	-	-
CS108ES.5	-	-	-	3	-	-	-	-	-	-	-	-	-	2	3
<b>Average</b>	0.8	<b>0.8</b>	-	<b>3</b>	<b>0.4</b>	-	<b>1.4</b>	-	1.4	-	<b>0.4</b>	<b>0.6</b>	<b>1.2</b>	<b>1.8</b>	<b>1.4</b>



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### I-B.Tech I Semester (R22 Regulation)

#### SUBJECT: COMPUTER AIDED ENGINEERING GRAPHICS (ME105ES)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
ME105ES.1	Apply computer aided drafting tools to create 2D and 3D objects	3
ME105ES.2	sketch conics and different types of solids	3
ME105ES.3	Appreciate the need of Sectional views of solids and Development of surfaces of solids	6
ME105ES.4	Read and interpret engineering drawings	1
ME105ES.5	Conversion of orthographic projection into isometric view and vice versa manually and by using computer aided drafting	4

#### 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
ME105ES.1	1	1	-	1	-	-	-	-	-	1	-	-	2	1	1
ME105ES.2	1	1	1	1	1	1	-	-	-	1	-	-	2	1	1
ME105ES.3	2	-	3	1	2	1	-	-	1	1	-	2	2	1	1
ME105ES.4	2	1	3	1	2	1	-	1	1	1	1	2	2	1	1
ME105ES.5	2	1	2	1	3	1	1	1	1	1	1	2	2	1	1
<b>Average</b>	<b>1.6</b>	<b>0.8</b>	<b>1.8</b>	<b>1</b>	<b>1.6</b>	<b>0.8</b>	<b>0.2</b>	<b>0.4</b>	<b>0.6</b>	<b>1</b>	<b>0.4</b>	<b>1.2</b>	<b>2</b>	<b>1</b>	<b>1</b>



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### I-B.Tech I Semester (R22 Regulation)

#### SUBJECT: ENGINEERING WORKSHOP (ME104ES)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
ME104ES.1	Study and practice on machine tools and their operations	3
ME104ES.2	Practice on manufacturing of components using workshop trades including plumbing, fitting.	3
ME104ES.3	Practice on manufacturing of components using workshop trades including carpentry, foundry, house wiring and welding.	3,6
ME104ES.4	Identify and apply suitable tools for different trades of Engineering processes including drilling, material removing, measuring, chiselling.	3
ME104ES.5	Apply basic electrical engineering knowledge for house wiring practice.	1,3

#### 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
ME104ES.1	3	1	3	-	2	-	-	-	2	2	-	3	2	1	3
ME104ES.2	2	2	3	-	-	-	-	-	2	2	-	2	1	2	1
ME104ES.3	2	2	1	-	1	-	-	-	2	2	-	2	-	1	-
ME104ES.4	3	2	2	2	-	-	2	-	2	3	-	2	2	-	2
ME104ES.5	3	2	3	-	-	-	3	-	2	3	-	3	3	1	1
<b>Average</b>	<b>2.6</b>	<b>1.8</b>	<b>2.4</b>	<b>2</b>	<b>1.5</b>	<b>-</b>	<b>2.5</b>	<b>-</b>	<b>2</b>	<b>2.4</b>	<b>-</b>	<b>2.4</b>	<b>2</b>	<b>1.25</b>	<b>1.75</b>



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## Department of Basic Science & Humanities

AY : 2022-23

### I-B.Tech I Semester (R22 Regulation)

#### SUBJECT: ENGINEERING CHEMISTRY (CH102BS)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
CH102BS.1	The students are able to understand the basic properties of water and its usage in domestic and industrial purposes.	1,2
CH102BS.2	Students will acquire the basic knowledge of electrochemical procedures related to corrosion and its control	1,2
CH102BS.3	They can learn the fundamentals and general properties of polymers and other engineering materials	3
CH102BS.4	They can predict potential applications of chemistry and practical utility in order to become good engineers and entrepreneurs.	1
CH102BS.5	They can learn the fundamentals and general properties of engineering materials	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
CH102BS .1	2	1	1	1	1	-	-	-	1	1	2	3	2	3	3
CH102BS .2	1	1	1	1	1	3	3	3	-	1	1	1	1	1	2
CH102BS .3	1	3	3	1	3	2	-	-	1	1	1	1	2	-	3
CH102BS .4	2	1	1	1	2	3	-	-	-	2	1	2	-	3	2
CH102BS .5	3	3	2	3	3	3	-	-	1	2	3	2	2	1	3
<b>Average</b>	<b>1.8</b>	<b>1.8</b>	<b>1.6</b>	<b>1.4</b>	<b>2</b>	<b>2.7</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1.4</b>	<b>1.6</b>	<b>1.8</b>	<b>1.75</b>	<b>2</b>	<b>2.6</b>



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## Department of Basic Science & Humanities

AY : 2022-23

### I-B.Tech I Semester (R22 Regulation)

#### SUBJECT: ENGINEERING CHEMISTRY LABORATORY (CH107BS)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
CH107BS.1	Determination of parameters like hardness of water.	5
CH107BS.2	Determination of rate of corrosion of mild steel in various conditions.	5
CH107BS.3	Able to perform methods such as conductometry, potentiometry and pH metry in order to find out the concentrations or equivalence points of acids and bases.	1
CH107BS.4	Students are able to prepare polymers like Bakelite and nylon-6.	2
CH107BS.5	Estimations saponification value, surface tension and viscosity of lubricant oils	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
CH107BS .1	1	1	1	1	2	3	3	2	2	3	2	3	-	-	2
CH107BS .2	1	1	1	1	1	3	3	2	2	3	2	3	-	-	1
CH107BS .3	2	-	1	-	-	3	3	2	2	3	2	3	1	1	2
CH107BS .4	2	1	1	1	2	2	3	2	2	2	2	-	-	-	2
CH107BS .5	2	1	1	2	2	2	3	2	2	3	2	2	-	-	2
<b>Average</b>	<b>1.6</b>	<b>0.8</b>	<b>1</b>	<b>1</b>	<b>1.4</b>	<b>2.6</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2.8</b>	<b>2</b>	<b>2.2</b>	<b>0.2</b>	<b>0.2</b>	<b>1.8</b>



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## Department of Basic Science & Humanities

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### I-B.Tech I Semester (R22 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
<b>Average</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1.2</b>	<b>1.8</b>	<b>1.4</b>	<b>2.2</b>	<b>2</b>	<b>2.4</b>	<b>2.2</b>	<b>2</b>	<b>1.5</b>	<b>1.5</b>	<b>2.6</b>



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### I-B.Tech I Semester (R22 Regulation)

#### SUBJECT: ENGLISH LANGUAGE AND COMMUNICATION SKILLS LAB(EN109HS)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
EN109HS.1	Better understanding of nuances of language through audio visual experience and group activities.	2
EN109HS.2	Neutralization of accent for intelligibility.	1
EN109HS.3	Speaking with clarity and confidence thereby enhancing employability skills of the students.	1
EN109HS.4	Build self –confidence and art of presentations	3
EN109HS.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
EN109HS.1	3	2	1	3	3	2	2	3	3	3	3	3	-	1	1
EN109HS.2	3	2	1	3	3	2	2	3	3	3	3	3	-	2	1
EN109HS.3	3	2	1	3	3	2	2	3	3	3	3	3	1	-	1
EN109HS.4	3	2	1	3	3	2	2	3	3	3	3	3	1	2	1
EN109HS.5	3	2	1	3	3	2	2	3	3	3	3	3	-	2	1
<b>Average</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1.75</b>	<b>1</b>



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### I-B.Tech I Semester (R22 Regulation)

#### SUBJECT: BASIC ELECTRICAL ENGINEERING (EE104ES)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
EE104ES.1	Understand and analyze basic Electrical circuits	2
EE104ES.2	Study the working principles of Electrical Machines and Transformers	1
EE104ES.3	Identify the starting methods of starting synchronous and induction motors and speed control methods for DC motors	3
EE104ES.4	Understand the principle of operation of moving coil, moving iron and dynamometer type instruments	2
EE104ES.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
EE104ES.1	2	3	3	3	2	1	1	2	1	1	2	3	2	3	1
EE104ES.2	2	3	3	3	2	1	1	1	1	1	1	3	3	-	-
EE104ES.3	3	2	2	1	-	-	1	-	1	-	-	-	3	2	1
EE104ES.4	3	2	2	1	-	-	1	-	1	-	-	-	1	3	1
EE104ES.5	3	2	2	1	-	-	1	-	1	-	-	-	3	2	1
<b>Average</b>	<b>2.6</b>	<b>2.4</b>	<b>2.4</b>	<b>1.8</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1.5</b>	<b>1</b>	<b>1</b>	<b>1.5</b>	<b>3</b>	<b>2.4</b>	<b>2.5</b>	<b>1</b>



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## Department of Basic Science & Humanities

AY : 2022-23

### I-B.Tech I Semester (R22 Regulation)

#### SUBJECT: BASIC ELECTRICAL ENGINEERING LAB (EE109ES)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
EE109ES.1	Verify the basic Electrical circuits through different experiments	6
EE109ES.2	Evaluate the performance calculations of Electrical Machines and Transformers through various testing methods.	5,6
EE109ES.3	Analyse the transient responses of R, L and C circuits for different input conditions	4
EE109ES.4	Experimentally verify the basic circuit theorems	6
EE109ES.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
EE109ES.1	3	2	1	-	1	-	-	-	2	-	2	2	2	1	1
EE109ES.2	3	2	1	-	3	1	-	1	1	2	1	2	1	3	-
EE109ES.3	3	2	1	1	3	2	-	-	1	-	2	2	2	-	1
EE109ES.4	2	2	2	2	-	2	1	-	2	2	1	1	3	2	2
EE109ES.5	2	2	2	2	-	2	1	1	2	2	1	1	2	1	1
<b>Average</b>	<b>2.6</b>	<b>2</b>	<b>1.4</b>	<b>1.6</b>	<b>2.3</b>	<b>1.7</b>	<b>1</b>	<b>1</b>	<b>1.6</b>	<b>2</b>	<b>1.4</b>	<b>1.6</b>	<b>2</b>	<b>1.75</b>	<b>1.25</b>



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## Department of Basic Science & Humanities

AY : 2022-23

### I-B.Tech I Semester (R22 Regulation)

#### SUBJECT: ENVIRONMENTAL SCIENCE (MC110)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
MC110.1	understand technologies on the basis of ecological principles and environmental regulations	2
MC110.2	evaluate technologies on the basis of ecological principles and environmental regulations	6
MC110.3	develop technologies on the basis of ecological principles and environmental regulations	6
MC110.4	understand the impacts of developmental activities and mitigation measures	2
MC110.5	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
MC110.1	1	1	-	1	2	3	3	2	2	3	2	3	-	-	2
MC110.2	1	1	1	1	1	3	3	2	2	3	2	3	-	-	1
MC110.3	1	-	1	1	2	3	3	2	2	3	2	3	1	1	2
MC110.4	1	1	1	1	2	2	3	2	2	2	2	2	-	-	2
MC110.5	1	1	1	2	2	2	3	2	2	3	2	2	-	-	2
<b>Average</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1.2</b>	<b>1.8</b>	<b>2.6</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2.8</b>	<b>2</b>	<b>2.6</b>	<b>1</b>	<b>1</b>	<b>1.8</b>



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## Department of Basic Science & Humanities

AY : 2022-23

### I-B.Tech I Semester (R22 Regulation)

#### SUBJECT: C PROGRAMMING FOR ENGINEERS (EC103ES)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
EC103ES.1	Draw flowcharts for solving arithmetic and logical problems	1
EC103ES.2	Develop modular reusable code by understanding concepts of functions	2,6
EC103ES.3	Formulate algorithms and programs using arrays, pointers, strings and structures	6
EC103ES.4	Write a program using Searching and sorting algorithms	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
EC103ES.1	3	2	1	1	-	1	-	-	1	-	-	1	2	-	-
EC103ES.2	3	2	3	2	-	2	-	-	1	2	-	-	2	2	1
EC103ES.3	3	3	2	1	1	2	-	1	1	-	-	1	2	2	-
EC103ES.4	3	3	3	2	1	1	-	1	-	-	2	-	-	2	1
<b>Average</b>	<b>3</b>	<b>2.5</b>	<b>2.2</b>	<b>1.5</b>	<b>1</b>	<b>1.5</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>



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## Department of Basic Science & Humanities

AY : 2022-23

I-B.Tech I Semester (R22 Regulation)

### SUBJECT: C PROGRAMMING FOR ENGINEERS LABORATORY (EC108ES)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
EC108ES.1	Write algorithms and to draw flowcharts for solving problems and translate the algorithms/flowcharts to programs (in C language).	6
EC108ES.2	Use functions to develop modular reusable code	6
EC108ES.3	Use arrays, pointers, strings and structures to formulate algorithms and programs.	6
EC108ES.4	Understand Searching and sorting algorithms	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
EC108ES.1	3	2	1	1	1	1	-	-	1	-	1	1	2	-	-
EC108ES.2	3	2	3	2	1	2	-	-	1	-	1	1	2	-	-
EC108ES.3	3	3	2	1	1	2	-	-	1	-	1	1	2	-	-
EC108ES.4	3	3	3	2	1	1	-	-	1	-	1	-	2	-	-
<b>Average</b>	<b>3</b>	<b>2.5</b>	<b>2.2</b>	<b>1.5</b>	<b>1</b>	<b>1.5</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>



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## Department of Basic Science & Humanities

AY: 2022-23

I-B.Tech I Semester (R22 Regulation)

### SUBJECT: ELEMENTS OF ELECTRONICS & COMMUNICATION ENGINEERING (EC106ES)

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

#### COURSE OUTCOMES:

S. No.	COURSE OUTCOMES	B.T. LEVEL
EC106ES.1	Identify the different components used for electronics applications	3
EC106ES.2	Measure different parameters using various measuring instruments	5
EC106ES.3	Distinguish various signal used for analog and digital communications	4

#### 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
EC106ES .1	3	2	1	1	1	1	-	-	1	-	-	1	-	-	2
EC106ES .2	3	2	3	2	1	2	-	-	1	-	-	1	-	-	1
EC106ES .3	3	3	2	1	1	2	-	-	1	-	-	1	1	1	2
<b>Average</b>	<b>3</b>	<b>2.3</b>	<b>2</b>	<b>1.3</b>	<b>1</b>	<b>1.6</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1.67</b>