



# COIMBATORE INSTITUTE OF TECHNOLOGY

(Government Aided Autonomous Institution)

(Affiliated to Anna University, Chennai & Approved by AICTE, New Delhi)

Established in 1956, A unit of V. Rangasamy Naidu Educational Trust

CIVIL AERODROME POST, COIMBATORE - 641 014, TAMILNADU, INDIA

CORRESPONDENT

**Thiru S. RAJIV RANGASAMI M.Sc., MBA (USA)**

PRINCIPAL IN-CHARGE

**Dr. A. RAJESWARI M.E., Ph.D.,**

07.02.2022

C/62

## CIRCULAR

Regular (**OFFLINE**) classes at CIT campus will be conducted from 25.02.2022 (Friday) onwards for all B.E/ B.Tech (except First Year B.E / B.Tech), M.Sc., M.E., MCA, MBA and Part time B.E. students.

The students are advised to follow the Standard Operating Procedures strictly to prevent the spreading of COVID – 19 inside the campus.

Copy to

Dean-Students Affairs  
All Heads of the Departments



*Rajiv*  
PRINCIPAL (I/c)

*Rajiv*  
07/02/2022



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CORRESPONDENT

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PRINCIPAL IN-CHARGE

**Dr. A. RAJESWARI** M.E., Ph.D.,

20.04.2022  
C/104

## CIRCULAR

The Last working day for the II and III year B.E / B.Tech classes are as follows

II Year B.E. / B.Tech	-	17.06.2022
III year B.E. / B.Tech	-	10.06.2022

Concerned Faculty and Students are requested to note the same.

*Rjm*  
PRINCIPAL

92

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Dean – Students Affairs  
All Heads of the Departments



*Rjm*  
20/04/2022



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CORRESPONDENT

PRINCIPAL IN-CHARGE

**Thiru S. RAJIV RANGASAMI M.Sc., MBA (USA)**

**Dr. A. RAJESWARI M.E., Ph.D.,**

21.04.2022  
C/107

## CIRCULAR

The reopening dates for the students for the academic year 2021-22 are as follows (Even Semester )

II Semester M.Sc.,	-	18.05.2022 (Wednesday)
II Semester B.E. / B.Tech	-	23.05.2022 (Monday)
II Semester Part time B.E.	-	23.05.2022 (Monday)

The concerned staff members and students are requested to note the same.

PRINCIPAL

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CORRESPONDENT

**Thiru S. RAJIV RANGASAMI** M.Sc., MBA (USA)

PRINCIPAL

**Dr. A. RAJESWARI** M.E., Ph.D.,

07.06.2022

C/137

## CIRCULAR

### WORK SCHEDULE FOR 2021-22 (EVEN SEMESTER)

#### Second Semester B.E / B.Tech and Part time B.E.

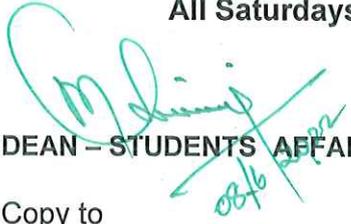
Date of Opening : 23.05.2022  
Last Working Day : 30.08.2022  
Mid-Semester Test

Semester	From	To
I Mid Sem	11.07.2022	16.07.2022
II Mid Sem	25.08.2022	30.08.2022

Faculty members are requested

- to enter the students attendance in the UMS Portal regularly.
- to complete the valuation of Mid semester answer scripts within one week and enter the marks in UMS portal immediately without fail.
- to complete the sessional mark calculation and enter in the UMS portal within one week after completion of second mid semester test.

**All Saturdays will be working days**

  
DEAN - STUDENTS AFFAIRS

  
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PRINCIPAL

**Dr. A. RAJESWARI** M.E., Ph.D.,

21.06..2022

C/145A

## CIRCULAR

### WORK SCHEDULE FOR 2022-23 (ODD SEMESTER)

#### V Semester B.E / B.Tech

Date of Reopening : 03.08.2022

Last Working Day : 30.11.2022

Mid-Semester Test

Semester	From	To
I Mid Sem	26.09.2022	30.09.2022
II Mid Sem	24.11.2022	30.11.2022

Faculty members are requested

- to enter the students attendance in the UMS Portal regularly.
- to complete the valuation of Mid semester answer scripts within one week and enter the marks in UMS portal immediately without fail.
- to complete the sessional mark calculation and enter in the UMS portal within one week after completion of second mid semester test.

  
21/6/2022

DEAN – STUDENTS AFFAIRS

  
21/6/2022

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CORRESPONDENT

**Thiru S. RAJIV RANGASAMI** M.Sc., MBA (USA)

PRINCIPAL

**Dr. A. RAJESWARI** M.E., Ph.D.,

21.06.2022

C/146A

## CIRCULAR

### WORK SCHEDULE FOR 2022-23 (ODD SEMESTER)

VII Semester B.E / B.Tech, V Semester M.Sc., (SS, DS, DCS and AI & ML) and  
V & VII semester Part time B.E.

Date of Reopening : 27.07.2022

Last Working Day : 23.11.2022

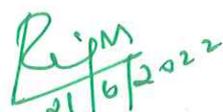
Mid-Semester Test

Semester	From	To
I Mid Sem	19.09.2022	23.09.2022
II Mid Sem	17.11.2022	23.11.2022

Faculty members are requested

- to enter the students attendance in the UMS Portal regularly.
- to complete the valuation of Mid semester answer scripts within one week and enter the marks in UMS portal immediately without fail.
- to complete the sessional mark calculation and enter in the UMS portal within one week after completion of second mid semester test.

  
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CORRESPONDENT

**Thiru S. RAJIV RANGASAMI M.Sc., MBA (USA)**

PRINCIPAL

**Dr. A. RAJESWARI M.E., Ph.D.,**  
21.06.2022  
C/144A

## CIRCULAR

### WORK SCHEDULE FOR 2021-22 (EVEN SEMESTER)

#### II Semester M.E

Date of Reopening : 27.06.2022  
Last Working Day : 01.10.2022  
Mid-Semester Test

Semester	From	To
I Mid Sem	22.08.2022	26.08.2022
II Mid Sem	26.09.2022	30.09.2022

Faculty members are requested

- to enter the students attendance in the UMS Portal regularly.
- to complete the valuation of Mid semester answer scripts within one week and enter the marks in UMS portal immediately without fail.
- to complete the sessional mark calculation and enter in the UMS portal within one week after completion of second mid semester test.

**All Saturday will be working days as per below time table**

S.No	Date	Time table	S.No	Date	Time table
1	02.07.2022	Thursday	8	20.08.2022	Monday
2	09.07.2022	Friday	9	27.08.2022	Tuesday
3	16.07.2022	Monday	10	03.09.2022	Wednesday
4	23.07.2022	Tuesday	11	10.09.2022	Thursday
5	30.07.2022	Wednesday	12	17.09.2022	Friday
6	06.08.2022	Thursday	13	24.09.2022	Monday
7	13.08.2022	Friday	14	01.10.2022	Tuesday

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**COIMBATORE INSTITUTE OF TECHNOLOGY**  
(Government Aided Autonomous Institution affiliated to Anna University)  
Coimbatore – 641 014

**DEPARTMENT OF MANAGEMENT STUDIES**  
**TEACHING PLAN**

Class : I MBA  
Subject : 21MBAE07 – SUSTAINABLE MANAGEMENT  
Staff-in-Charge : Dr. R.JAYANTHI  
Semester and Year : Even Semester – 2021-2022

**Course Objectives:**

- To provide students with fundamental knowledge of the notion of corporate sustainability.
- To determine how organizations impacts on the environment and socio-technical systems, the relationship between social and environmental performance and competitiveness, the approaches and methods.

**Course Outcomes:**

On successful completion of the course students will be able to:

CO1: An understanding of sustainability management as an approach to aid in evaluating and minimizing environmental impacts while achieving the expected social impact.

CO2: An understanding of corporate sustainability and responsible Business Practices  
CO3: Knowledge and skills to understand, to measure and interpret sustainability performances.

CO4: Knowledge of innovative practices in sustainable business and community management

CO5: Deep understanding of sustainable management of resources and commodities

Week No.	Hour No.	Topic No. & Description
1	1	MANAGEMENT OF SUSTAINABILITY
	2	Rationale and political trends
	3	An introduction to sustainability management
2	4	International policies on sustainable development
	5	European policies on sustainable development
	6	theoretical pillars in sustainability management studies
3	7	Case Studies
	8	Case Studies
	9	Case Studies
4	10	CORPORATE SUSTAINABILITY AND RESPONSIBILITY
	11	Corporate sustainability perimeter

	12	Corporate sustainability institutional framework
5	13	Integration of sustainability into strategic planning
	14	regular business practices
	15	fundamentals of stakeholder engagement
6	16	Case Studies
	17	Case Studies
	18	Case Studies
7	19	<b>SUSTAINABILITY MANAGEMENT: STRATEGIES AND APPROACHES</b>
	20	Corporate sustainability management and competitiveness
	21	Sustainability-oriented corporate strategies
8	22	markets and competitiveness
	23	Green Management between theory and practice
	24	Sustainable Consumption and Green Marketing strategies
9	25	Environmental regulation and strategic postures
	26	Green Management approaches and tools; Green engineering: clean technologies and innovation processes
	27	Sustainable Supply Chain Management and Procurement
10	28	<b>SUSTAINABILITY AND INNOVATION</b>
	29	Socio-technical transitions and sustainability,
	30	Sustainable entrepreneurship
11	31	Sustainable pioneers in green market niches
	32	Smart communities
	33	Smart specializations
12	34	Case Studies
	35	Case Studies
	36	Case Studies
13	37	<b>SUSTAINABLE MANAGEMENT OF RESOURCES, COMMODITIES AND COMMONS</b>
	38	Energy management
	39	Case Studies
14	40	Case Studies
	41	Water management
	42	Case Studies
15	43	Case Studies
	44	Waste management
	45	Case Studies

## Reference Books

1. Daddi, T., Iraldo, F., Testa, Environmental Certification for Organizations and Products: Management,2015
2. Christian N. Madu, Handbook of Sustainability Management2012
3. Petra Molthan-Hill, The Business Student's Guide to Sustainable Management: Principles and Practice,2014
4. Margaret Robertson, Sustainability Principles and Practice,2014
5. Peter Rogers, An Introduction to Sustainable Development,2006

## Department of Artificial Intelligence and Data Science



### 21CS21 – Digital Design

Course Planner

Semester 2

Academic Year : May 2022 – Aug 2022

#### Subject Details

<b>Lecture Duration</b>	3 hours per week
<b>Contact hours</b>	45 hours per semester
<b>Credit points</b>	3 CP
<b>Pre-requisite</b>	NIL
<b>Delivery Mode</b>	Off-line
<b>Assessment</b>	Theory

#### Course Objective

The objective of this course is to introduce the concept of digital and binary systems and familiarize the concepts and design principles of combinational and sequential logic circuits.

#### COURSE OUTCOMES

**CO1:** Understand the basics of number systems, arithmetic operations, data representation Schemes

**CO2:** Understand the concepts of logic gates, boolean algebra and simplify the Boolean expressions

**CO3:** Acquire knowledge in combinational logic and to design combinational circuits.

**CO4:** Ability to understand sequential logic and to design digital systems using sequential logic

**CO5:** Understand the various types of Memory, Memory organizations and their operations

#### Lecture Hours

## Teaching Staff

Name	Role	Office	Email
Dr. Ramraj	Tutor		ramraj@cit.edu.in

## Learning and Teaching

Theory	L	T	P	C	Practical	L	T	P	C
	3	0	0	3		0	0	2	1

## Weekly Lesson Plan Schedule

Week	Teaching and Learning	Assessment	Digital-LAB	Student Task
1	Digital Computers and digital systems. Number system - Binary, Octal, Hexadecimal, Base Conversions.			Heed Lecture sessions and refer std. text books and classwork hand-outs
2	Complements-Subtraction of (unsigned) numbers using Complements. Binary Codes - BCD, Excess-3 Gray, ASCII, Error Detecting Codes- Reflected code.	Assignment 1	LAB 1	
3	Fixed point Binary Data - Sign and Radix Point representation-Signed Binary Numbers - Arithmetic Addition and Subtraction - Overflow. Decimal Data - Floating Point Data.		LAB 2	
4	Boolean Algebra - Basic Definitions – Theorems & Properties -Canonical and Standard Forms.	Assignment 2	LAB 3	
5	Digital Logic gates. Simplification of Boolean Functions – Karnaugh Maps- Don't Care Conditions.		LAB 4	
6	NAND and NOR Implementation. Quine-McCluskey (Tabulation) Method. Design Procedure-Adders -Half Adder - Full Adder- Binary Parallel Adder-Carry Look-ahead Adder - BCD Adder.		LAB 5	
7	Mid Semester 1	<b>Mid Sem 1</b>	<b>CAT 1</b>	
8	Subtractor- Half Subtractor - Full Subtractor- Magnitude Comparator-Binary Multiplier- Code Converters-Analysis Procedure- Decoders	Assignment 3	LAB 6	
9	Demultiplexers-Encoders-Priority Encoder- Multiplexers. Programmable Logic Arrays (PLA)- Programmable Array Logic(PAL)		LAB 7	
10	Introduction - Flip Flops - Types -Triggering of Flip Flops. Analysis of Clocked Sequential Circuits - State Table - State Diagram - State Equation	Assignment 4	LAB 8	

11	State Reduction and Assignment. Flip Flop Excitation Tables. Design Procedure - Design of Counters- Ripple Counters- Binary and BCD ripple counters. Synchronous counters - Binary and Binary updown counters		LAB 9
12	BCD Counters-Ring Counter-Johnson Counter. Registers – Shift Register. Memory Basics- Random Access Memory - RAM Family –Static RAMs-Memory Cell - Basic SRAM Cell Array – Cache Memory -	Assignment 5	LAB 10
13	DRAM Memory Cells – Types of DRAMs. Read-Only Memory-ROM Family Mask ROM. Simple ROM – Internal ROM Organization– Programmable ROMs.Flash Memory		Practice
14	Flash Memory Cell-Flash Memory Operation-Basic Flash Memory Array-Comparison of Flash Memories with other Memories.		<b>CAT 2</b>
15	Mid Semester 2	<b>Mid Sem 2</b>	

\*Dates may change for Mid semesters and CAT exams

### Assessment: THEORY and Practical

Task	Individual or Group	Weightage	Course Outcome	Blooms Taxonomy	Deadline
Assignment 1	Individual	5%	CO1, CO2, CO3	A, AP, E	Week 2
Assignment 2	Individual		CO1, CO2, CO3, CO4, CO5	A, AP, E	Week 4
Assignment 3	Individual		CO1, CO2, CO3	A, AP, E	Week 8
Assignment 4	Individual		CO1, CO2, CO3, CO4, CO5	A, AP, E	Week 10
Assignment 5	Individual		CO1, CO2, CO3, CO4, CO5	A, AP, E	Week 12
Mid Semester 1	Individual	7.5%	CO1, CO2, CO3	R,K, A, AP, S, T	Week 7
Mid Semester 2	Individual	7.5%	CO1, CO2, CO3, CO4, CO5	R,K, A, AP, S, T	Week 15
Model Exam	Individual	5%	CO1, CO2, CO3, CO4, CO5	R,K, A, AP, S, T	Two weeks prior to Final Exam
End Semester Exam	Individual	75%	CO1, CO2, CO3, CO4, CO5	R,K, A, AP, S, T	Date will be announced by CoE (Exam office)

**BT – Bloom’s Taxonomy : R – Remembrance / Comprehension; K – Knowledge; A – Analysis; AP – Application; S – Synthesis; E - Evaluation**

### Mapping of CO to Program Outcomes

Course Outcome	PROGRAM OUTCOMES (POs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												
CO2												
CO3												
CO4												
CO5												

### Mapping of CO to Program Specific Objectives

COURSE OUTCOME	PROGRAM SPECIFIC OBJECTIVES (PSO)		
	PSO 1	PSO 2	PSO3
CO1			
CO2			
CO3			
CO4			
CO5			

### Minimum requirements to pass this Subject

- Students must participate in all assessment deliverables.
- To pass a unit and meet all COs to a minimum standard, student must have achieved an aggregate mark for the unit of 50% or more.

### Submission Requirements

- Submit the assessments/ tutorial tasks/ lab task with in the duedate.
- Plagiarism is strictly prohibited.
- Please ensure you keep a copy of all assessments that are submitted

### Text Books

1. M. Morris Mano, "Digital Logic and Computer Design", Pearson Education, 1st edition, 2016.
2. Thomas L.Floyd, "Digital Fundamentals", Pearson Education; Eleventh edition, 2017. (For "MEMORY" Only).

### Reference Books

1. Charles H. Roth Larry L. Kinney, Raghunandan G. H. "Fundamentals of Logic Design", Cengage Learning, 1st edition, 2019.
2. Tocci R.J., Neal S. Widemer, Gregory L. Moss "Digital Systems: Principles and Applications", Prentice Hall of India, 12th edition, 2016.
3. V.Rajaraman, T.Radhakrishnan, "Digital Logic and Computer Organization", PHI Learning Pvt. Ltd, 2009. (For "Programmable Logic Arrays").

## Department of Artificial Intelligence and Data Science



### 21CSL22 – Python Programming

Course Planner

Semester 2

Academic Year : May 2022 – Aug 2022

#### Subject Details

<b>Lecture Duration</b>	1 hours per week
<b>Lab Duration</b>	4 hours per week
<b>Contact hours</b>	75 hours per semester
<b>Credit points</b>	3 CP
<b>Pre-requisite</b>	NIL
<b>Delivery Mode</b>	Off-line
<b>Assessment</b>	Theory-cum-Lab

#### Course Objective

The subject objective is to cover the concepts of python programming to solve computational problems

#### COURSE OUTCOMES

**CO1:** Understand the fundamental concepts of computers and basic blocks of programming.

**CO2:** Apply control statements, decision making statements to solve the given problems.

**CO3:** Usage of complex data types in python to develop on application.

**CO4:** Practice problem solving using functions and string operations.

**CO5:** Solve the real - world problems using file handling operations, modules, packages and error handling methods.

#### Lecture Hours

## Teaching Staff

Name	Role	Office	Email
Dr. Ramraj	Course-cum-Lab Instructor	IT 203	<a href="mailto:ramraj@cit.edu.in">ramraj@cit.edu.in</a>
Mrs.M.Prabhavathi	Lab Instructor		
Mrs.R.M.Suruthi	Lab Instructor		

## Learning and Teaching

Theory-cum - Lab	L	T	P	C
	1	0	4	3

## Weekly Lesson Plan Schedule

Week	Teaching and Learning	Assessment	Digital -LAB	Student Task
1	Introduction to Computers - Fundamentals of Programming: Python variables, Python basic Operators,		LAB 1, 2	Heed Lecture sessions and refer std. text books and classwork hand-outs
2	Understanding python blocks. Python Data Types, Declaring and using Numeric data types: int, float etc.	Assignment 1	LAB 3, 4	
3	Assignment statements, I/O statements. Control statements: if, else and else if, for loops, for each,.		LAB 5, 6	
4	While loops, Loop manipulation using pass, continue, break and else	Assignment 2	LAB 7,8	
5	Lists: List operations, List slices, List methods,		LAB 9,10	
6	List loop, mutability, aliasing, cloning lists, list parameters.		LAB 11,12	
7	Mid Semester 1	<b>Mid Sem 1</b>	<b>CAT 1</b>	
8	Tuples: tuple assignment, tuple as return value;	Assignment 3	LAB 13,14	
9	Dictionaries: operations and methods; Set: Creating Sets, Performing Set Operations: Union, Intersect and Difference.		LAB 15,16	
10	Functions: Parameters, Local and Global scope, Return values, Recursion.	Assignment 4	LAB 17,18	
11	String operations: Subscript operator, Indexing, Slicing a string,		LAB 19,20	
12	Strings and Number system: Converting strings to numbers and vice versa. Using ASCII and Unicode Strings, Manipulating Strings	Assignment 5	LAB 21,22	

	with String Methods, format() Function, Escape Sequences			
13	Files: Text files, reading and writing files, Format operator; Command line arguments, Errors and Exceptions,		Lab 23,24	
14	Handling Exceptions, Modules: import Statement, from...import Statement, Packages : Numpy, Scipy		Lab 25,26	
15	Mid Semester 2	<b>Mid Sem 2</b>	<b>CAT 2</b>	

\*Dates may change for Mid semesters and CAT exams

### Assessment: THEORY and Practical

Task	Individual or Group	Weightage	Course Outcome	Blooms Taxonomy	Deadline
Assignment 1	Individual	5%	CO1, CO2, CO3	A, AP, E	Week 2
Assignment 2	Individual		CO1, CO2, CO3, CO4, CO5	A, AP, E	Week 4
Assignment 3	Individual		CO1, CO2, CO3	A, AP, E	Week 8
Assignment 4	Individual		CO1, CO2, CO3, CO4, CO5	A, AP, E	Week 10
Assignment 5	Individual		CO1, CO2, CO3, CO4, CO5	A, AP, E	Week 12
CAT 1	Individual	30%	CO1, CO2, CO3	R,K, A, AP, S, T	Week 7
CAT 2	Individual	30%	CO1, CO2, CO3, CO4, CO5	R,K, A, AP, S, T	Week 15
Lab Records and Impression	Individual	10%	CO1, CO2, CO3, CO4, CO5	R,K, A, AP, S, T	Before the start of the next lab session
Lab Assignments	Individual	30%	CO1, CO2, CO3, CO4, CO5	R,K, A, AP, S, T	Before the start of the next lab session

**BT – Bloom’s Taxonomy : R – Remembrance / Comprehension; K – Knowledge; A – Analysis; AP – Application; S – Synthesis; E - Evaluation**

### Mapping of CO to Program Outcomes

Course Outcome	PROGRAM OUTCOMES (POs)											
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CO2												
CO3												

CO4												
CO5												

### Mapping of CO to Program Specific Objectives

COURSE OUTCOME	PROGRAM SPECIFIC OBJECTIVES (PSO)		
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CO2			
CO3			
CO4			
CO5			

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- Plagiarism is strictly prohibited.
- Please ensure you keep a copy of all assessments that are submitted

### Text Books

1. John V. Guttag, "Introduction to Computation & Programming using Python", 2<sup>nd</sup> Edition, The MIT Press. 2016
2. Allen B. Downey, "Think Python: How to Think Like a Computer Scientist". 2<sup>nd</sup> edition, Updated for Python 3. Shroff O'Reilly Publishers, 2016.
3. Guido van Rossum and Fred L. Drake Jr., "An Introduction to Python — Revised and updated for Python 3.2". Network Theory Ltd., 2011.

### Reference Books

1. Mark Lutz. "Learning Python", 5th edition. Orelly Publication, 2013.
2. John Zelle, "Python Programming: An Introduction to Computer Science", 2nd edition. Course Technology Cengage Learning Publications. 2013.
3. Michel Dawson, "Python Programming for Absolute Beginners", 3rd Edition. Course Technology Cengage Learning Publications, 2013.
4. David Beazley Brian Jones.. "Python Cookbook". 3rd Edition. Oreilly Publication. 2013.