



# VAAGESWARI COLLEGE OF ENGINEERING

Beside LMD Police Station, Ramakrishna Colony,  
KARIMNAGAR, Telangana state – 505481  
Affiliated to Jawaharlal Nehru Technological University Hyderabad,  
Approved by AICTE New Delhi

2.3.1 Student Centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience (20)

## Index

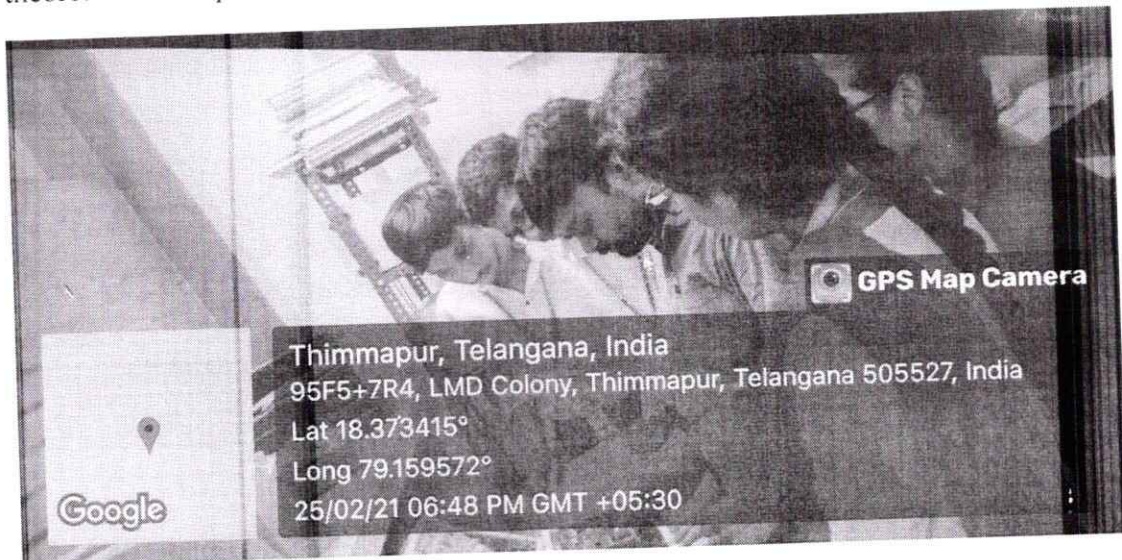
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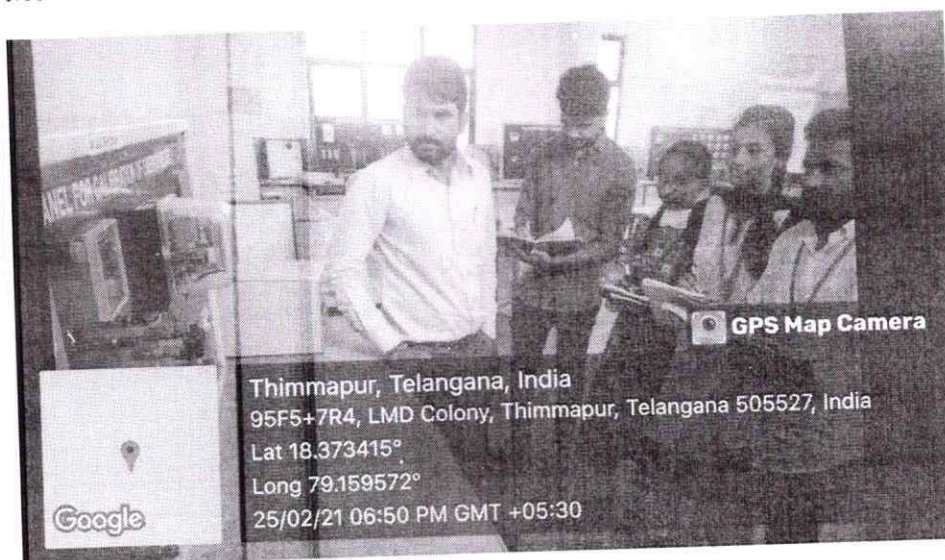
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**Experiential Learning:** The Institution offers experiential learning for students with the following approaches:

1. **Laboratory Session:** Laboratory Sessions are conducted for better understanding of theoretical concepts.



Students of ECE Department, II Year II semester Performing Lab Experiment in "Frequency Modulation & Demodulation" (AY 2020-2021)



Students of EEE Department, III Year I semester Performing Lab Experiment in "Calibration of single phase energy meter" (AY 2020-2021)

  
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**2. Bridge Course:** Bridge Courses are conducted for students for filling the gaps in academics

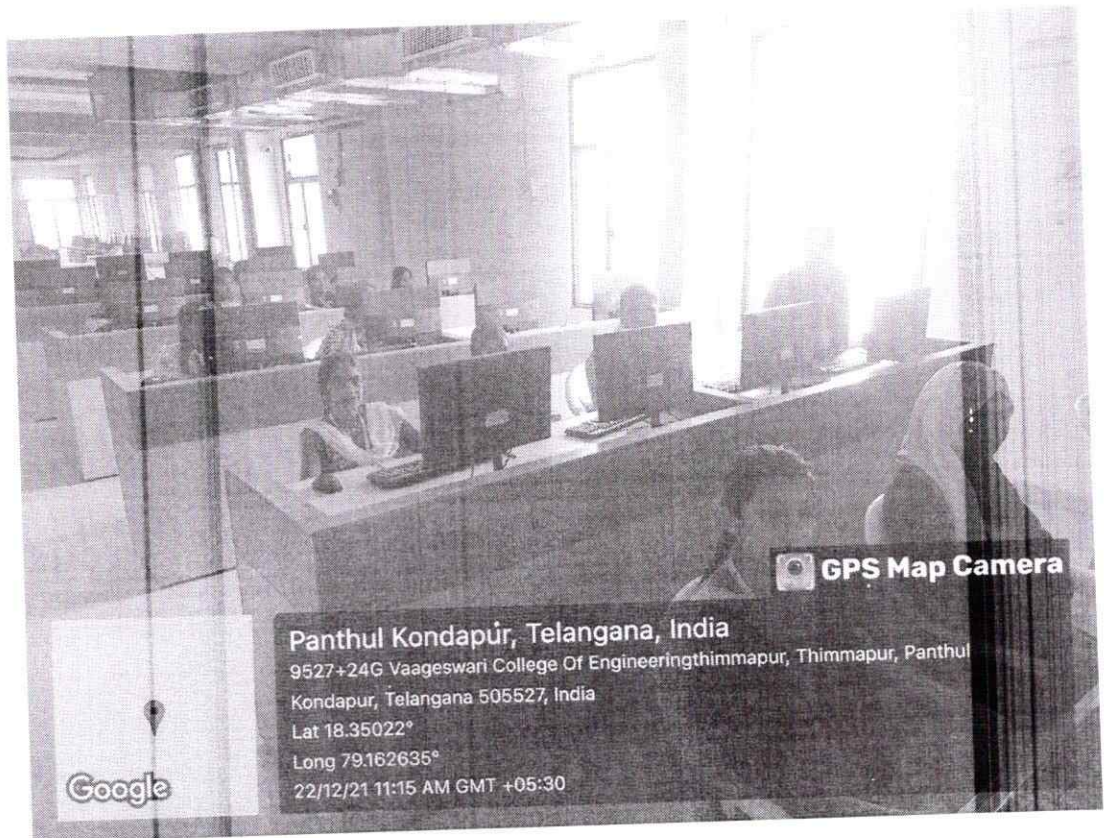


Dr. E. Hari Prasad, Associate Professor, Department of Business Management conducted ADD-ON program on "Small Business Management" for MBA II year II semester Students. (AY 2021-22)

  
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### 3.Virtual Labs:

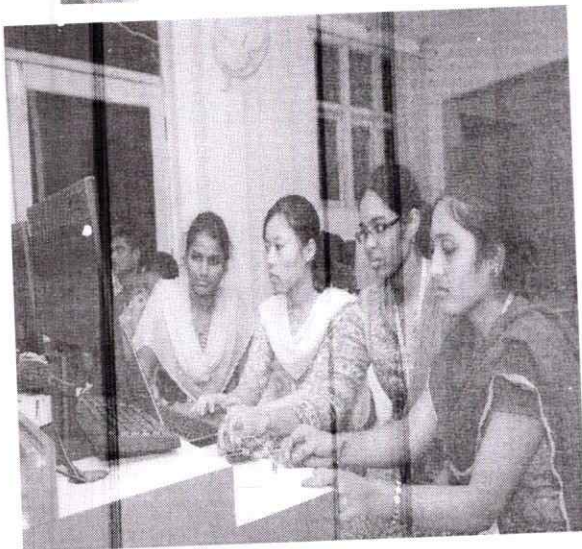
**Virtual Labs:** Used to provide remote access to labs in various disciplines can avail the various tools for learning including additional web resources, video lectures, animated demonstration and self evolution.



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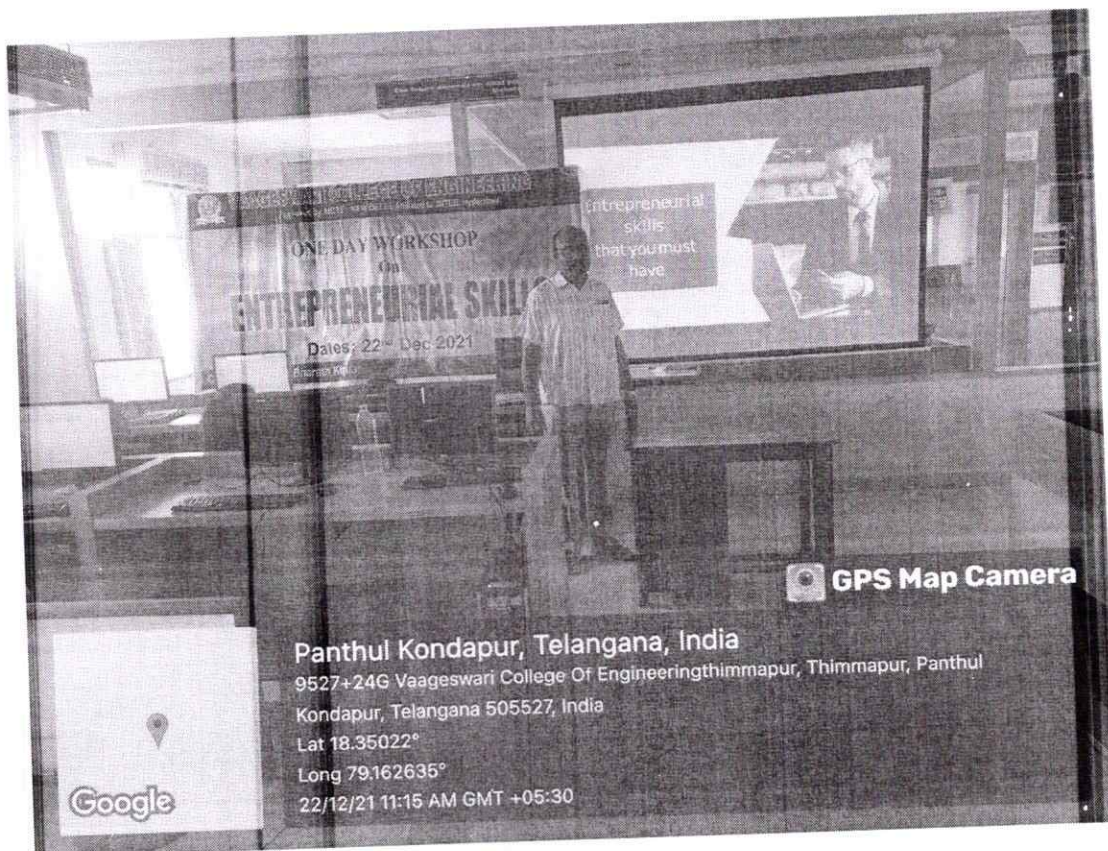
#### 4. Group Discussion and Debates:



  
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## 5. Workshops, Guest Lectures and Seminars

MBA 2<sup>nd</sup> Year Students participated in Workshop on "ENTERPRENEURIAL SKILLS", 22-12-2021



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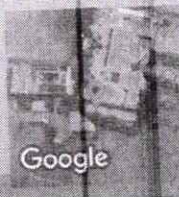
MBA DEPARTMENT

ONE DAY WORKSHOP ON ENTREPRENEURIAL SKILLS, 22/12/2021

SNO	HALL TICKET NUMBER	NAME	SIGNATURE
1	21541E0001	A. Shilpa	
2	21541E0003	B. Suresh	
3	21541E0006	B. V. S. S. S.	
4	21541E0008	Ch. Alex	
5	21541E0010	Ch. Vinod	
6	21541E0012	Ch. Pradeep	
7	21541E0014	K. S. S. S.	
8	21541E0019	K. S. S. S.	
9	21541E0019	K. S. S. S.	
10	21541E0020	L. S. S. S.	
11	21541E0023	M. S. S. S.	
12	21541E0024	M. S. S. S.	
13	21541E0028	T. S. S. S.	
14	21541E00310	V. S. S. S.	
15	21541E0041	V. S. S. S.	
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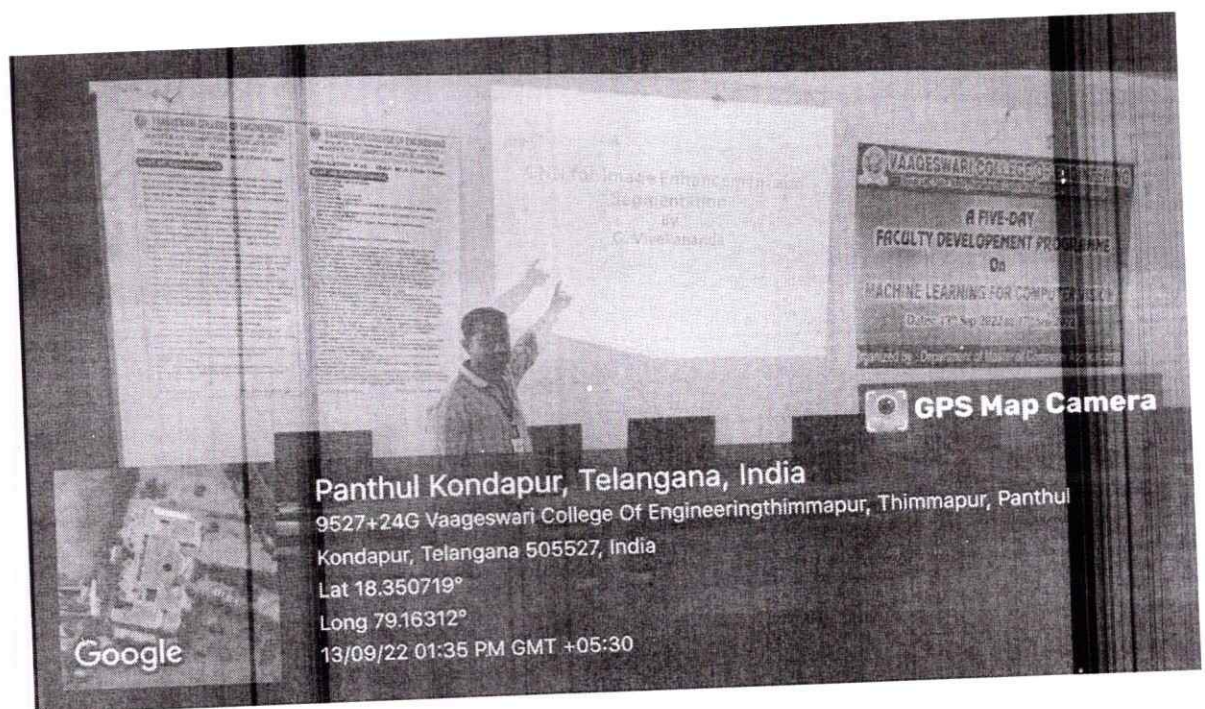
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G. Vivekananda, Associate Professor, Department of MCA conducted Faculty Development program on "Machine Learning For Computer vision" for MCA II year II semester Students. (AY 2021-22)



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S, Sathish, Associate Professor, Department of CSE conducted Technical Skills on Placements for Btech Final Year Students. (AY 2021-22)

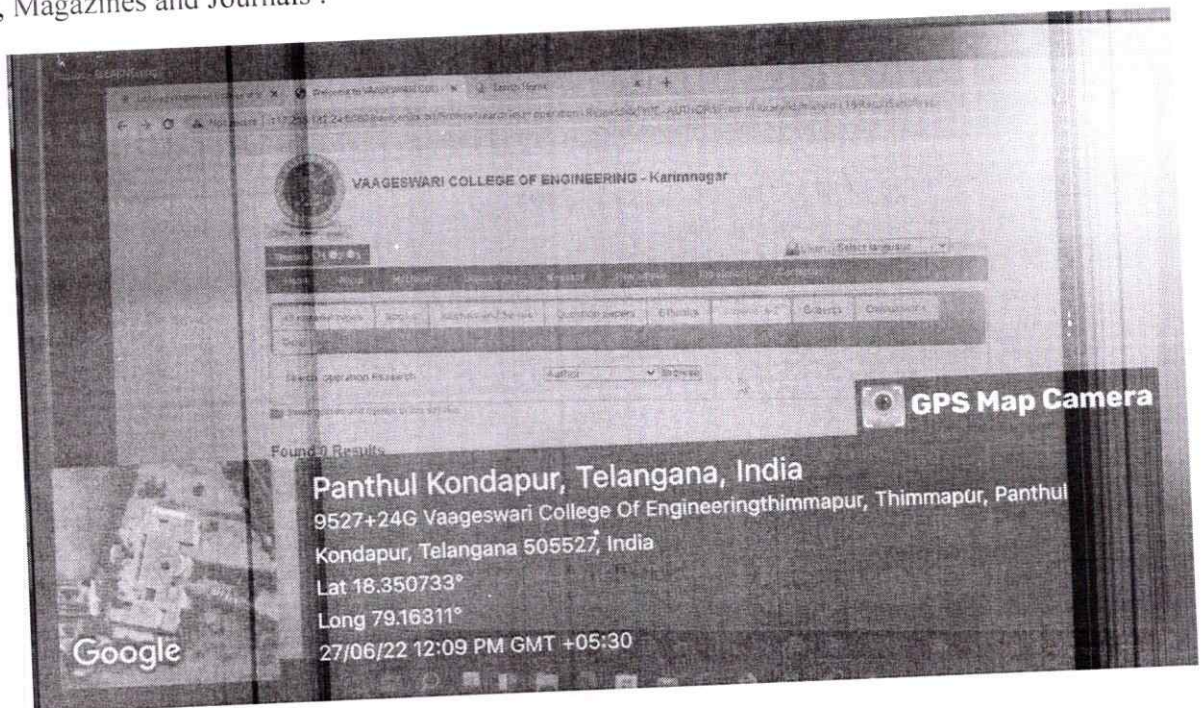


  
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## 6.E-learning

**E-Learning:** The institute allowed to access textbooks & References, Course Materials, Project reports, Magazines and Journals .



  
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## 7. Sample Copy of Participative Learning

**Participative Learning:** The Institute focuses on students in active involvement independently and interdependently through collaboration learning method.

1. **Technical Club activities:** The institution has various professional Societies like IEEE, CSI, IEL, ISO, where the students actively participate in various activities.





Students of All branches, Joined in Youth Empowerment program on inaugural day of ICT Academy.

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## 7.Assignments and Quizz

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 **NAAC A+**

**ASSIGNMENT ANSWER BOOKLET**


Hall Ticket No. : 21841A6618


Name of the Student : G. Sandhya

Course : B.Tech. III year Sem. I

Branch : CSE (AI&ML) Section : A

Subject Name : Machine Learning

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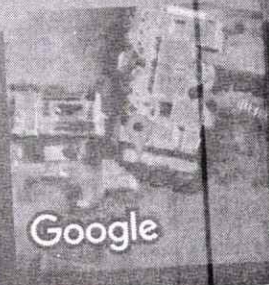


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## MARKS AWARDED

Q.No.	Assignment		Total	Sign with Date
	1	2		
1	5	5	10	 21/04/2024
2	3	3	6	 21/06/2024
3				
4				
5				
6				
7				
8				



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1) Illustrate any 4 examples for well posed learning problem

### WELL-POSED LEARNING PROBLEM

A computer program is said to learn from experience  $\epsilon$  with respect to some class of tasks  $T$  and performance measure  $P$ .

if its performance at tasks in  $T$ , as measured by  $P$ , improves with experience  $\epsilon$ .

Example :

- A checker learning problem.

Task  $T$ : playing checkers

Performance measure  $P$ :

Percent of games won against opponents

Training experience  $\epsilon$ :

playing practice game against it self

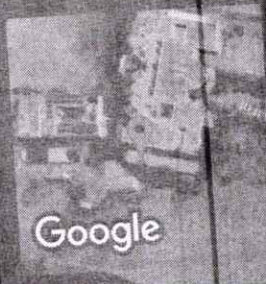
Example 2:

- A handwriting recognition learning problem.

Task  $T$ :  
recognizing and classifying handwritten words within images

Performance measure  $P$ :

Percent of words correctly classified.



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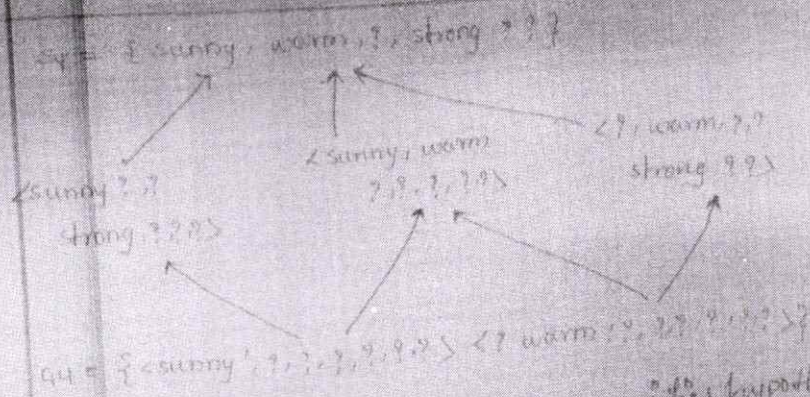
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4. explain finds: finding a maximum specific hypothesis in details.

find-s-Algorithm:

1. Initialize to most specific hypothesis

$h = \{ \emptyset, \emptyset, \emptyset, \emptyset, \dots, \emptyset \}$

2. for each possible example:

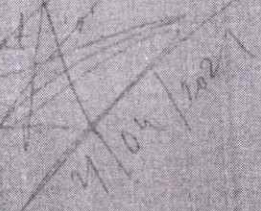
for each attribute in the example

if attribute value = hypothesis value

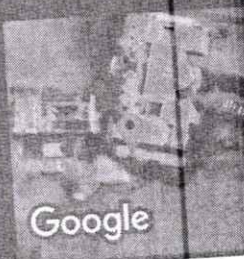
do nothing

else:

Replace the hypothesis value with more general constraint



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## Assignment - II

Explain crossover and mutation operators in genetic algorithms.

The generation of successive pop. GA is determined by a set of operators that describe and mutate selected members of the current population. The two most common operators are

- crossover
- mutation

→ the crossover operator produces two new offspring from two parent strings by copying selected bits from each parent.

→ the bit at position in each offspring is copied from the bit at position in one of the two parents. The choice of which parent contributes the bit for position, is determined by an additional single-point crossover.

- two-point crossover
- uniform crossover

The mutation operator produces small random changes to the bit string by choosing a single bit at random then changing its value. Mutations often performed after crossover has been applied.

single-point crossover:

A crossover point on the parent organism string is selected. All data beyond that in the organism string is swapped b/w the two parent organisms.



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chromosome 1	101100101100
chromosome 2	10111001100
offspring 1	1011100110110
offspring 2	1010100100110

two point crossover

uniform crossover  
Each gene is selected randomly from one of the corresponding genes of the parent chromosomes using a coin as an example technique.

parent 0000000000000000  
1111111111111111

children 10001101010100111010  
01110010101101000010


uniform crossover

### mutation operators

In simple terms mutation may be defined as a small random tweak in the chromosome to get a new solution. It is used to maintain and introduce diversity in the genetic population and usually applied with a low probability we describe some of the most commonly used mutation operators.

#### Bit flip mutation

In this bit flip mutation we select one or more random bits and flip them. This is used for binary encodings.



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# VAAGESWARI COLLEGE OF ENGINEERING, KARIMNAGAR

III B.Tech 1 SEMESTER I MID EXAMINATION May - 2022

FUNDAMENTALS OF MANAGEMENT FOR ENGINEERS

(ECE, CIVIL and Mechanical Engineering)

06-08-2022 AN

Time: 90min

Answer Any TWO Questions. All Questions Carry Equal Marks.

1. What are the skills required to a manager? Explain
2. Make a note on Henry Fayol's principles of management
3. Write a brief note on planning process.
4. Explain various types of organizational structures.

Answer All Questions. All Questions Carry Equal Marks.

20x1/2=10

1. Choose the correct answer:

1. Which one is the following is not covered by the 5M's of Management?
  - a) Money b) Material c) Manager d) Machines
2. Who coined the term "POSDCORB" as Management functions
  - a) Luther Gullick b) Henry Fayol c) Elton Mayo d) Maslow
3. What is "Esprit-de-Corps" stand for?
  - a) Right thing right place b) Team Work/unity of strength c) Initiation d) Transfer
4. Who is regarded as father of "Scientific Management"?
  - a) F.W. Taylor b) Mc. Gregor c) Henry Fayol d) Charles Babbage
5. Who is regarded as father of "Modern Management"?
  - a) F.W. Taylor b) Mc. Gregor c) Henry Fayol d) Charles Babbage
6. Planning involves
  - a) Future course of action b) Review of past performance c) Analysis of policies d) None
7. Strategic Planning is undertaken at:
  - a) Lower Level b) Middle level c) Top level d) Functional Level
8. Process Management theory developed by:
  - a) Elton Mayo b) Maslow c) Robert Owen d) Henry Fayol
9. Hawthorne experiments conducted by
  - a) Bernard b) Mc. Gregor c) Elton Mayo d) Charles Babbage
10. Which one of the following is NOT a one of the Fayol's 14 Principles of Management?
  - a) Authority b) Remuneration c) Goal d) Unity of Command

II. Fill in the blanks

11. Selection aim at selecting right person for right job.
12. "Deciding in Advance what is to be done in the future" is called planning.
13. The Father of Scientific Management is Henry Fayol.
14. M.B.G. stands for Management by Objectives.
15. is well known for his Human Relation Approach.
16. Authority flows from top to bottom.
17. Planning is done at all levels of management.
18. Principle of management given by Henry Fayol.
19. Planning is a function of management.
20. The time horizon for the long term planning is 5-10 years.

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