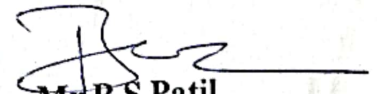


Date: 03/12/2021

## NOTICE

All students of T.Y.B.Tech and B.Tech Final year are hereby informed that, MSE DEC 2021 Exam is commencing on 8 to 10 Dec. This exam will be conducted in offline mode. Time table for MSE is attached here with.

All are instructed to attend the same without fail. Attendance for MSE is mandatory and there will not be any reexamination for MSE.

  
Mr. B.S. Patil  
(HOD- IT/CSE)

Dr.V.P.S.S.M.'s  
Padmabhooshan Vasantraodada Patil Institute of Technology,  
Budhgaon - 416 304.

Department of Information Technology/Department of Computer  
science and Engineering

## Time Table


MSE

Academic Year 2021-2022(SEM I)

Date	Time	TY	B. Tech
08/12/2021 Wednesday	10.30am To 11.30am	Database Systems (BTCOC501)	Software Engineering (BTCOC701)
	2.30pm To 3.30pm	Theory of Computation (BTCOC502)	Elective – VIII FDP (BTCOE702)
9/12/2021 Thursday	10.30am To 11.30am	Machine Learning (BTCOC503)	Elective – IX CC (BTCOE703)
	2.30pm To 3.30pm	Elective – III IR (BTCOE504)	Open Elective – X DT (BTCOE704)
10/12/2021 Friday	10.30am To 11.30am	Elective – IV ECM (BTCOE505)	-----
	2.30pm To 3.30pm	-----	

  
Ms.N.R.Chaus

Unit Test Co-ordinator

  
Mr.B.S.Patil  
(HOD-IT/CSE)

Course: TY Computer engg.

Subject Name: Theory Of Computation

Max Marks: 20

Date:-08/12/2021

Sem: V

Subject Code: BTCOC502

Duration:- 1 Hr.

Instructions to the Students:

1. All questions are compulsory
2. Write all the answers with neat labeled diagram.
3. Figures to the right indicates full marks

Q.1 Attempt following Questions

1 X 6 = 6Marks

- 1) The Trees which represent derivations in the CFG are called..  
a- Parse Tree b- derivation Tree c- both A and B d- none
- 2) Transition Function of  $\epsilon$ -NFA machine is given by..  
a)  $\Sigma \times Q \rightarrow \Sigma$  b)  $Q \times \Sigma \rightarrow \Sigma$   
c)  $Q \times \Sigma U \{\epsilon\} \rightarrow 2^{\text{Power } Q}$  d)  $Q \times \Sigma U \{\epsilon\} \rightarrow Q$
- 3) Automation accepting the regular expression of any number of a's is  
a)  $a^*$  b)  $ab^*$  c)  $(a/b)^*$  d)  $a^*b^*c^*$
- 4) A context sensitive language is accepted by  
a) Finite automata b) linear Bounded Automata  
b) Both a and b d) none of these
- 5) Which of the following is more powerful  
a) PDA b) Turing Machine  
b) Finite Automata e) Context Sensitive Language
- 6) Context Free Grammars has -----Tuples  
a) 5 b) 4 c) 3 d) None

(CO)	BL	PO
CO1	BL1	1,6
CO1	BL1	1,6,11
CO2	BL3	6,7,8
CO2	BL3	6,7,8,11
CO2	BL3	1,6
CO2	BL3	1,7,8

Q.2 Solve Any Two of the following.

3 X 2 = 6

- (A) Explain Pumping Lemma
- (B) Define  $\epsilon$  NFA with Example.
- (C) Convert LLG to RLG  $S \rightarrow Aa / Bb$   $A \rightarrow Bb$   $B \rightarrow Ba / b$

CO1	BL3	1,6,7,8
CO1	BL3	6,7
CO3	BL4	2,3,4

Q.3 Solve Any One of the following.

8 X 1 = 8

- (A) Explain in Brief Types of Grammer. (Type 0,1,2,3)
- (B) a. Write Regular Expression & Draw a DFA for the language accepting strings starting with '101' over input alphabets  $\Sigma = \{0, 1\}$ .  
b. Differentiate between Mealy Machine and Moore Machine

CO1	BL3	1,6,9,8
CO3	BL3	1,3,6

End



Dr. V.P.S.S.M.'s  
Padmabhooshan Vasantraodada Patil Institute of Technology,  
Budhgaon - 416 304.


Department of Information Technology/Department of Computer  
science and Engineering

Date: 09/05/2022

## NOTICE

All students are hereby informed that, MSE OF EVEN SEM for Third and Final year B.tech examination will be held from **12/05/2022 to 14-05-2022**. This exam will be conducted in **offline mode** for Third year students and **online mode** for B.tech students. Time table for MSE is attached here with.

Attend MSE without fail otherwise you are solely responsible for your academic loss.

  
Mr. B.S. Patil  
(HOD- IT/CSE)

Dr.V.P.S.S.M.'s  
Padmabhooshan Vasantraodada Patil Institute of Technology,  
Budhgaon - 416 304.

Department of Information Technology/Department of Computer  
science and Engineering

## Third Year Time Table

MSE

Academic Year 2021-2022(SEM II)

Date	Time	TY
12/05/2022 Thursday	11.00AM to 12.00PM	Compiler Design (BTCOC601)
	3.00PM to 4.00PM	Computer Networks (BTCOC602)
13/05/2022 Friday	11.00AM to 12.00PM	Elective-V Artificial Intelligence (BTCOE603)
	3.00PM to 4.00PM	Elective-VI Internet of Things (BTCOE604)
14/05/2022 Saturday	11.00AM to 12.00PM	Open Elective-VII Consumer Behaviour (BTCOE605)

Ms.N.R.Chauhan

Unit Test Co-ordinator

Mr.B.S.Pati

(HOD-IT/CSE)




Dr.V.P.S.S.M.'s  
Padmabhooshan Vasantraodada Patil Institute of Technology,  
Budhgaon - 416 304.


Department of Information Technology/Department of Computer  
science and Engineering

**B.tech Time Table**  
**MSE**  
**Academic Year 2021-2022(SEM II)**

Date	Time	B.tech
13/05/2022 Friday	1.00PM to 2.00 PM	Elective-XI(BTCOE801)
14/05/2022 Saturday	1.00PM to 2.00 PM	Elective-XII(BTCOE802)

\* Mode of Examination is Online

  
Ms.N.R.Chaus  
Unit Test Co-ordinator

  
Mr.B.S.Pati  
(HOD-IT/CSE)

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**  
**MSE Exam 2021-2022**

**Course: B.Tech. in Computer Science and Engineering**  
**Subject Name: Internet of Things.**  
**Max Marks: 20**

**Date:-13 /05/2022**

**Sem: VII**  
**Subject Code: BTCOE604**  
**Duration:- 1 Hr.**

**Instructions to the Students:**

1. All questions are compulsory.
2. Figure to the right indicate full marks.

**Q. 1. Solve the following by selecting correct answer.**

- 1) Identify the incorrect advantage of IoT.  
 a) Reduce Waste                      b) Enhanced data collection  
 c) Improve customer engagement    d) Security
- 2) Identify among the following which is not a fundamental component of IoT system.  
 a) User interface                      b) Sensors  
 c) Transformer                        d) Connectivity and data processing
- 3) The term "Internet of Things" was coined by?  
 a) Kevin Ashton                      (b) Guido van Rossum    (c) IBM    (d) Ross Ihaka
- 4) Among the following, which is not within the scope of the fourth industrial revolution?  
 a) Smart Connected Machines        b) Gene Sequencing  
 c) Smart Factories                        d) None of the above
- 5) Sensor effectiveness depends on \_\_\_\_\_ parameter.  
 a) Sensitivity    b) Radiation    c) Resistivity    d) All the above
- 6) The function of a sensor is to \_\_\_\_\_.  
 a) Detect events within specified environment  
 b) Separate physical parameters  
 c) Track and transfer data to computer processor  
 d) Both a and c

**Blooms Level**    **CO**    **Marks**  
 BL1              CO1              6

BL1              CO1

BL1              CO1

BL1              CO1

BL1              CO2

BL1              CO2

**Q. 2. Solve Any Two of the following.**

- (A) Explain the Four industry Revolution.
- (B) Explain Iot Data Management and Compute Stack from IOT architecture?
- (C) Explain communication topology in Access network sublayer ?
- (D) Write a short note on ACTUATOR.

BL1              CO2

BL2              CO2

BL1              CO2

BL2              CO2

**Q. 3. Solve Any One of the following.**

- (A) Draw and explain simplified IOT architecture?
- (B) Define and explain various types of sensor

BL2,4              CO3

BL2,              CO1

3 x 2

8

**\*\*\* End \*\*\***