## D. P. Bhosale College, Koregaon

## **Department of Mathematics**

#### **Notice**

Date - 17 / 01 / 2022

All the Students of B.Sc. III are here by informed that the Department of Mathematics has organized the Student's Seminar on Thursday, 20<sup>th</sup> January, 2022. All the Students should present at 12:15 p.m. in the department of Mathematics.

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Head
Department of Mathematics
D. P. Bhosale College, Koregaon

## D.P. Bhosale College, Koregaon

## **Department of Mathematics**

## Student's Seminar (2021-22)

### **Brief Report**

Department of Mathematics organized Student's Seminar for overall development of the students, in the academic year 2021-22 on Thursday, 20<sup>th</sup> January, 2022. The Main objective of this activity is to improve logical thinking, teaching skills and personality development among the students.

The 06 students are participated in this activity. Students represent seminar on various topics such as Mathematical Analysis, Game theory, Complex Analysis, Group, Logical Equivalence, Modern algebra.

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# D. P. Bhosale College, Koregaon

# **Department of Mathematics**

# Student's Seminar (2021-22)

Sr. No.	Roll No.	Name of the Student	Seminar Topic	
1	22646	Chavan Pratiksha Sudhir	Modern Algebra	
2	22647	Jadhav Pranali Pandurang	Complex Analysis	
3	22648	Nikam Divya Vijay	Game Theory	
4	22649	Nikam Shreenath Prakash	Logical Equivalence	
5	22650	Shete Samrudhi Nandkumar	Group	
6	22651	Godase Ganesh Tanaji	Mathematical Logic	

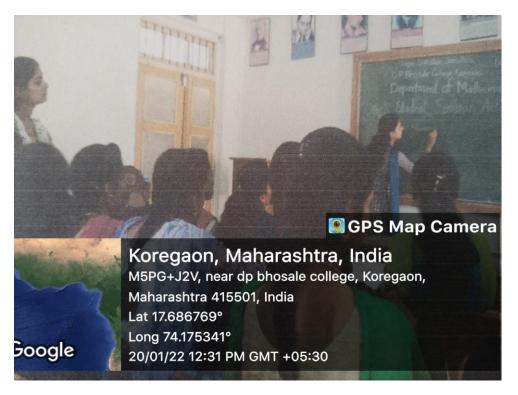


Head
Department of Mathematics
D. P. Bhosale College, Koregaon

## D. P. Bhosale College, Koregaon

## **Department of Mathematics**

# Student's Seminar (2021-22)







#### Department Of Mathematics

#### Seminar Activity

Name of the Student: chavan Pratiksha sudhia

Roll No. : 22646

Date: 20 Jun 2022

Paper No.: IX

Class: RSCIII

Topic: Modean Algebra: Set and group student sign formation

Synopsis:

- · Defination of set: A set is collection of well defined object.
- · <u>Group</u>: Let G be any non empty set and \* be a binary operation on group G such that, 1) closuze property:
  - 2) Associative property:
- 3) Existence of Identity:
- 4) Existence of Invedee:
- · Types of Gooup
- 1) Abilian Group:
- 2) Ordez of Group:
- 3> Finite group:
- 4) Infinite group .
- Example on abilian group :

Reference Books: Jonh. B Frailigh .

Marks Obtained:

Sign of Teacher: Ahigh (

#### Department Of Mathematics

#### Seminar Activity

Name of the Student: Godase Ganesh Tanaji

Roll No. : 22647

Paper No.: Topic: Mathematical logic Date: 20/01/2022

Class: BSC -III

student sign - Godase

Synopsis: a] Statement - A statement of Proposition is a Sentence the is true of false but not both

- 1] Compoud Statment! A Statement which Contains some logical Connectives is called a Compound Statement
- 2] Atomic Statement: A Statement which Contains no logical connectives are called a atomic Statement

Reference Books: notes, Swasanna s. Epp, Descrete Mathematic

with Applications, Mc Grow Hill 2002

Marks Obtained: 9/10

Sign of Teacher:

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#### Department Of Mathematics

#### **Seminar Activity**

Name of the Student: Jadhav Pranali Pandurang

Roll No. : 22648

Date: 2011/22

Paper No.: DSE-F1L

Class: BSCIII

Topic:

Complex Analysis students sign - Jadhav. A.P.

Synopsis:

Complex Analysis

- · Importance of complex analysis
- · What is a complex Number
- · The Algebra of Complex number
- · Addition, subtraction, multiplication
- · Graphical representation of complex No · Euler's formula.

James ward Brown & Ruelv. churchill. Reference Books:

Marks Obtained: 9/10

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#### **Department Of Mathematics**

### Seminar Activity

Name of the Student: Diya Vijay Nikam.

Roll No. : 22 649

Paper No.: DSE - E11

Topic: Game theory.

Date: 20 1 22

Class: BSC-III

studentsign - Dlikan

Synopsis:

1/ Basic Terms -

26 Game with saddle paint -

3'r Example of game theory -

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0	20	15	12	35
11	25	14	8	10
111	40	2	10	5
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Reference Books: K. Vand Mohan.

Marks Obtained: 9)

9/10

Sign of Teacher: Alindo

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## **Department Of Mathematics**

#### Seminar Activity

Name of the Student: Nikam Shreenath Prakash

Roll No. : 22650

Date: 20-01-22

Paper No .: DSE - F12

Class: B.Sc. III

Topic: Logical Equivalence

Synopsis:

Definition of Logical Equivalence -

The statements p and q are said to be logically equivalent if they have same truth values. The logical equivalence of p and q is denoted as P=q.

Various laws of Logical equivalence -

Examples - Use truth table to show that the following steatement forms are logically equivalent

1) 
$$PVQ \rightarrow T$$
 and  $(P \rightarrow T) \wedge (Q \rightarrow T)$   
2)  $P \rightarrow Q$  and  $PVQ$   
3)  $P \leftrightarrow Q$  and  $(P \rightarrow Q) \wedge (Q \rightarrow P)$ 

3) 
$$p \leftrightarrow q$$
 and  $(P \rightarrow q) \land (Q \rightarrow P)$ 

Reference Books: Discrete Mathematics with Applications,

PWS Publishing company, 1995.

Marks Obtained: 9/10

Sign of Teacher:

#### Department Of Mathematics

#### Seminar Activity

Name of the Student: Samuddhi Nandkumar shele

Roll No. : 22651

Date: 201 2022

Paper No.: Abstract Algeboa. E10

Class: BSC TIL

Topic: Group student Sign - Enghete

Synopsis:

1) Binary operations: [Defn]

- 2) Group: A non empty set G together with an operation is called a group.
- 3) Abelian Group:
- 4) Algebraic structure:
- 5) Quaternion group:
- 6) Uniqueness of identity
- 7) Uniqueness of inverse
- 8) Thmm: The left identity is also the right identity
- 9) Thmm: If let G be agroup and a EG then (a-1)-1-a

Reference Books: John B. Fraleigh

Marks Obtained: 9 110

Sign of Teacher: (Ahinger

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