

Date:21/8/2020

Bunts Sangha's

S. M. Shetty College of Science, Commerce & Management Studies, Powai

ISO 9001:2015 Certified

Department of Mathematics & Statistics

NOTICE

This is to inform all the students of first year BScIT that Department of Mathematics & Statistics is organizing a "Bridge Course" on Basics of mathematics where in basics of Sets, Functions, Relations, permutation and combination topic will be covered. The Course is starting from 25th August 2020 to 29th August, 2020 at 3:00 PM on ZOOM platform. All the students are instructed to attend the same.



Teacher In charge



Principal

Bunts Sangha's
S. M. Shetty College of Science, Commerce & Management Studies, Powai
NAAC Accredited 'A' Grade
ISO 9001:2015 Certified
Department of Mathematics & Statistics
Bridge Course Syllabus

20/8/2020

Class: F.Y.B.Sc.IT (SEM-I)

Subject: Mathematics

Module 1: Numbers and operators <ul style="list-style-type: none">• Real Number System• Operations on Real Numbers• Rules of operations	1 Hour
Module 2: Sets & Relations <ul style="list-style-type: none">• Introduction to Sets• Expressing Sets• Introduction to Relations	1 Hour
Module 3: Functions <ul style="list-style-type: none">• Introduction to Functions• Types of Functions• Invertible Functions	1 Hour
Module 4: Counting Principle <ul style="list-style-type: none">• Addition and Multiplication Rule• Permutations• Combination	1 Hour



Subject In-Charge



Coordinator



Principal

Bunts Sangha's
S.M.Shetty College of Science, Commerce & Management Studies, Powai
Bridge Course Attendance Sheet 2020-21

Month: August, 2020
 Class/D FYBScIT
 Subject DISCRETE MATHEMATICS
 Teacher Name: Prof. Suman Upadhyay

8/25/2020	8/27/2020	8/28/2020	8/29/2020
Aakash Shyam	Aakash Shyam	Aakash Shyam	Aakash Shyam
aavez siddiqui	AISHWARY arvind verma	AISHWARY arvind VERMA	Abhijeet Digambar Patil
Abhijeet Digambar Patil	Alvares kieran keith	Anchal mishra	Aishwaryakerkar
Aishwarya Arvind Verma	Amit Vishwakarma	Anchan Mrinali	Alvares kieran keith
Anchan Mrinali	Anchal mishra	Aniket Yadav	Anchal mishra
Aniket Varma	Anchan Mrinali	Animesh Kulkarni	Anchan Mrinali
Aniket Verma	Aniket Varma	Anjali	Aniket Verma
Aniket yadav	Aniket Verma	Ankur upadhyay	Aniket Yadav
Animesh Kulkarni	Aniket Yadav	Ansari shaista	Animesh Kulkarni
Ansari shaista	Animesh Kulkarni	AROLKAR SURAJ SUDEEP	Anjali
Ansari Shameer	Anjali	Ayush gupta	ankith shetty
Anuja gajinkar	Ankur upadhyay	Bablu Sahu	Ansari shaista
AROLKAR SURAJ SUDEEP	Ansari shaista	Bangera Kartik	AROLKAR SURAJ SUDEEP
ARYAN MORAES	AROLKAR SURAJ SUDEEP	Beulah Sundararajan	Ayush gupta
Ayush gupta	ARYAN MORAES	bharat purohit	Babku Sahu
Bablu Sahu	Ayush gupta	Bisht Hitendar	Bandarkar Vedant
Barle swapnil	Bablu Sahu	Chauhan Tanisha	Beulah Sundararajan
Beulah Sundararajan	Bangera Kartik	Chaurasiya Akash	Bharat
Bhostekar sahil	Barle swapnil	Chawre avishkar	Bisht Hitendar Singh
Bisht Hitendar	Beulah Sundararajan	CHOUDHARI MOHD. ISMAIL	Chauhan Tanisha
Chauhan Tanisha	Bhavesh Laku	Choudhary sanjay	Chaurasiya Akash
Chaurasiya akash	BISHT HITENDAR	D'souza Yohan Noel	Choudhary sanjay
Chavan aryan	Chauhan Tanisha	ELDHO BASIL	Dawson Ethan
Chawre Avishkar	Chaurasiya akash	Ethan Dawson	Deepak Shetty
CHOUDHARI MOHD.ISMAIL	Chawre Avishkar	Gajinkar Anuja ramakant	D'souza Yohan Noel
Choudhary sanjay	CHOUDHARI MOHD.ISMAIL	Gejage tanaji vaishnavi	ELDHO BASIL
D'souza Yohan Noel	Choudhary sanjay	Gupta Adarsh	fakir sakib
ELDHO BASIL	D'souza Yohan Noel	Harishini R	Gajinkar anuja Ramakant
Ethan Dawson	ELDHO BASIL	Jain sumit	Gejage Tanaji Vaishnavi
Gaikwad stavan	Ethan Dawson	Jaiswar pranita brj	Gholap riddhesh
Gholap Riddhesh	fakir sakib	Jha Saurabh	Gupta Adarsh
Gupta Adarsh	Gaikwad stavan	Kamble Ujjwal	Gupta sachindar
Gupta sachindar	Gajinkar Anuja ramakant	Khan Afraz Rafique	Harishini R
Harsh Maruti Musale	Gholap Riddhesh	Khan Ayesha	Jadhav Karishma
Jadhav mahesh Janardhan	Gupta Adarsh	Khan sohail hasrat ali	Jadhav mahesh Janardhan
Jain sumit	Harishini r	Khan Zaid Firoz	Jain sumit
Jha Saurabh	Hulawale sakshi	KUMAR AYUSH	Jaiswar pranita brj
KADAM PRATHAM	Jadhav Karishma	Lale Vrushali	Jha Saurabh
Kamble Ujjwal	JADHAV MAHESH JANARDHAN	Lanjekar siddhesh	Kamble Ujjwal

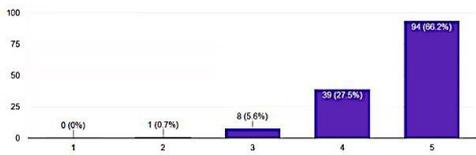
Kartik Bangera	Jain sumit	Lobo Ankit	Kartik Bangera
Khan AbdulRahim	Jaiswar pranita brij	Mahadik dhiraj	Khan AbdulRahim
Khan Ayesha	Jayesh kolhe	Mahto sonu	khan afraz rafique
Khan mohammed majid	Kamble Ujjwal	Malgaonkar Shramik	Khan Ayesha
Khan sohail hasrat ali	Khan AbdulRahim	Mandal Aditi Ashish	Khan shoab
Khan Zaid	Khan Afraz Rafique	Manjrekar radhika	Khan sohail hasrat ali
KOLHE JAYESH	Khan Ayesha	Mishra Ashishkumar Dilipkumar	Khan Zaid Firoz
KUMAR AYUSH	Khan Farhaan	Mishra Harsh	Khazi sakib
Lale Vrushali	Khan sohail hasrat ali	Mishra Nilesh Jaikant	KOLHE JAYESH
Lanjekar siddhesh	Khan Zaid Firoz	Mondal Shan	KUMAR AYUSH
Lobo Ankit	KUMAR AYUSH	Moraes Aryan	Laku Bhavesh
Mahadik Dhiraj	Lale Vrushali	Mourya Raj	Lale Vrushali
Mahto sonu	Lanjekar siddhedh	nalawade anushka	Lobo Ankit
Malgaonkar Shramik	Lobo Ankit	Ninad Shah	Mahadik dhiraj
Mandal Aditi Ashish	Mahadik dhiraj	Pandey Shikha	Mahto sonu
Mane ninad	Mahto sonu	Panicker Pranav	Malgaonkar Shramik
Manjrekar radhika	Malgaonkar Shramik	Panigrahi Amar	Mandal Aditi Ashish
Mehta himanshu	Mandal Aditi Ashish	Panigrahi Trupti	Manjrekar Radhika
Mishra Ashishkumar Dilipkumar	Mane ninad	Parab Aarya	Maury avaneeshkumar Arvind
Mishra Harsh	Manjrekar radhika	Parab Deepesh	Mehta Himanshu Bhagwan singh
Mishra Nilesh Jaikant	Mehta Himanshu	Pasi Pooja	Mishra Ashishkumar Dilipkumar
Mishra prateek vinod	Mishra Ashishkumar Dilipkumar	Patil Abhijeet Digambar	Mishra Harsh
Mishra Rishabh Rakesh	Mishra Harsh	PATIL Mayuresh Anant	Mishra Nilesh Jaikant
Mohammed Avesh Ansari	Mishra Nilesh Jaikant	Poojari saith	Mishra prateek vinod
Mulla Aanam	Mishra prateek vinod	Poojary sooraj	MISHRA RISHABH
Murshad Gaush	Mishra Rishabh	Potdar Shreya Sanjay	MOHAMMED AVESH ANSARI
Nalawade Anushka Sambhaji	Mohammed Avesh Ansari	Pradhumn vats	MORAES ARYAN
Ninad Shah	Mondal Shan	Pradvik devendra poojary	Mourya
Panicker Pranav	Mourya Raj	Pratham gupta	Mulla Aanam
Panigrahi Amar	Musale Harsh Maruti	Pratham Sanjay Kadam	Musale Harsh Maruti
Panigrahi Sulata	Nalawade Anushka	Reshma Yadav	Nalawade Anushka
Panigrahi Trupti	Ninad Shah	Sahu Sriya	Ninad Shah
Parab Aarya	PAL Bipin Ramchandra	Sairaj Shetty	Pal bipin ramchandra
Parab Deepesh	Panigrahi Amar	Salve Vinay	Pandey Shikha Vinod
Pasi pooja	Panigrahi Sulata	sameer patil	Panicker Pranav
PATEL ANJALI HITESH	Panigrahi Trupti	Sanadhya jai	Panigrahi Amar
Poojary sooraj	Parab Aarya	Saroj Manishkumar Radheshyam	Panigrahi Sulata
Potdar Shreya Sanjay	Parab Deepesh	Sawant Sangeet	Panigrahi Trupti
Pradhumn vats	Pasi pooja	Shaikh Alfiya Haroon	Parab Aarya
Pranita brij jaiswar	PATIL MAYURESH Anant	Shaikh ayaan	Parab Deepesh
Pratham gupta	Poojari saith	Shaikh jahangir alam	Pasi pooja
Purohit bhara	Poojary sooraj	Shaikh musheb	Pathre Sejal
Qazi fahad	Potdar Shreya Sanjay	Shashi Prakash Prajapati	PATIL Mayuresh Anant
Raj Mourya	Pradhumn vats	Shetty Aditya Jagannath	Poojari saith
Reshma Yadav	Pradvik poojary	Shetty ankith	Poojary sooraj

Ritika arvind sawant	Pratham gupta	Shetty Mrinal	Potdar Shreya Sanjay
Rohit Singh	Pratham Sanjay Kadam	Shetty Pavitra	Pradhumn vats
Sahu LakshmiPriya	Qazi fahad	SHETTY SIDDESH	Pradvik poojary
Sahu Sriya	Reshma Yadav	Shivam Dilip Tiwari	Pratham Sanjay Kadam
Sairaj Bhingarde	Sahu LakshmiPriya	Shraddha Hiremath	Punwatkar Aditya
sakib	Sahu Sriya	Shringarpure Grishma	Reshma Yadav
Salve Vinay	sairaj bhingarde	Shubham Rai	Sahu LakshmiPriya
sameer patil	Sairaj Shetty	Shukla AMIT	Sahu Sriya
Sanadhya jai	Salve Vinay	Singh Ajay Kumar Nandkumar	sairaj bhingarde
Saroj Manishkumar Radheshyam	sameer patil	Singh Rohit	Sairaj Shetty
Shaikh alfiya haroon	Sanadhya jai	Singh Shivam Pradeep	Sakshi hulawale
Shaikh ayyan mohd iftekar	Saroj Manishkumar Radheshyam	Singh Ujjwal	Salve Vinay
Shaikh huzaif	Sawant Ritika Arvind	Smeet Mange	sameer patil
Shaikh jahangir	Shaikh Alfiya Haroon	Sohail Shaikh	Sanadhya jai
Shaikh Mohammad Nawaz	Shaikh ayaan	Sohani Siddharth	Saroj Manishkumar Radheshyam
Shaikh musheb	Shaikh huzaif	Suthar Nikita	Sawant Ritika Arvind
Shan Mondal	Shaikh jahangir alam	Tejas Prakash Deokar	Sawant Sangeet
SHELAR SAURABH GAUTAM	Shaikh Mohammad Nawaz	Upadhyay shivam	Shaikh Alfiya Haroon
Shetty Ankith	Shaikh musheb	Varma Aniket	Shaikh ayyan mohd iftekar
Shetty Mrinal	SHELAR SAURABH GAUTAM	Vedant Bandarkar	Shaikh jahangir alam
Shetty Pavitra	Shetty Mrinal	Vishwakarma amit	Shaikh musheb
Shetty sairaj	Shetty Pavitra	Vishwakarma muskan	Shaikh yasin
SHETTY SIDDESH	SHETTY SIDDESH	Vishwakarma Vinit	Shan Mondal
Shivam Dilip Tiwari	Shringarpure Grishma	Yadav Akash Vinod	SHELAR SAURABH GAUTAM
Shivam upadhyay	Shubham Rai	Yadav bhakti bharat	Shetty Aditya Jagannath
shringarpure grishma	Shukla AMIT	Yadav prasad	Shetty Mrinal
Shubham Rai	Siddiqui Aavez	Yasin Shaikh	Shetty Pavitra
Shukla Amit	Singh Ajay Kumar Nandkumar	Zahir Shaukat Ali Ialji	SHETTY SIDDESH
Singh Ajay Kumar Nandkumar	Singh akhilesh		Shivam Dilip Tiwari
SINGH NITESH	Singh Ashutosh		Shraddha Hiremath
Singh Ujjwal	SINGH NITESH		shringarpure grishma
Smeet Mange	Singh Rohit		Shubham Rai
Sohail Shaikh	Singh Ujjwal		shubham wagh
Sohani siddharth	Smeet Mange		Shukla AMIT
Suthar Nikita	Sohail Shaikh		Siddiqui Aavez
Tejas Prakash Deokar	Sohani siddharth		Singh Ajay Kumar Nandkumar
Tulway Abdul Alim Faiyaz	Suthar Nikita		Singh akhilesh
Upadhyay Ankur	Tejas Prakash Deokar		Singh nitesh
Vishwakarma amit	Tiwari Shivam dilip		Singh Rohit
Vishwakarma muskan	Tulway Alim		Singh Shivam Pradeep
Vishwakarma Vinit	Upadhyay shivam		Singh Ujjwal
wagh shubham vilas	Vedant Bandarkar		Smeet Mange
Yadav bhakti bharat	Vishwakarma ashwin		Sohail Shaikh
Yadav manish rajpati	Vishwakarma muskan		Sohani Siddharth
Yadav prasad	Vishwakarma Vinit		Suthar Nikita

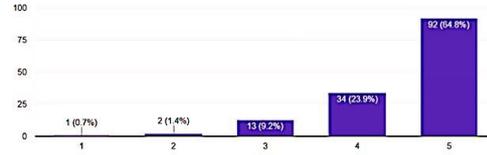
	Yadav Akash Vinod		Tejas Prakash Deokar
	Yadav bhakti bharat		Tulway Alim
	Yadav manish rajpati		Upadhyay Anand upadhyay
	Yasin shaikh		Upadhyay shivam
	Zahir Shaukat Ali lalji		Varma Aniket
			Verma aishwarya verma
			Vishwakarma amit
			Vishwakarma ashwin
			Vishwakarma muskan
			Vishwakarma Vinit
			Yadav Akash Yadav
			Yadav bhakti bharat
			Zahir Shaukat Ali lalji

Feedback Analysis of Bridge Course

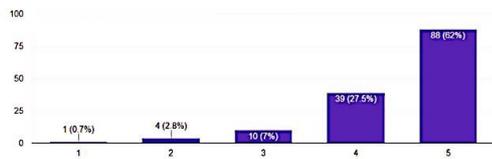
Rate the Overall Bridge Course
142 responses



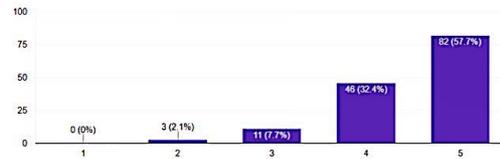
Rate the content and delivery of Module 1: Number System and Operators
142 responses



Rate the content and delivery of Module 2: Sets and Relations
142 responses

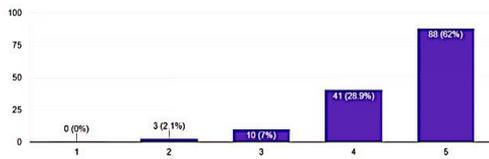


Rate the content and delivery of Module 3: Functions
142 responses



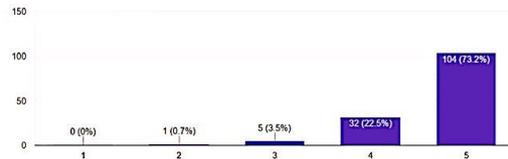
Rate the content and delivery of Module 4: Counting Principle

142 responses



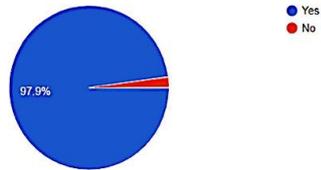
Rate the Teaching Methodology of the Faculty

142 responses



Has the Bridge Course helped you

142 responses



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NAAC ACCREDITED 'A' Grade

ISO 9001:2015 Certified

Department of Mathematics & Statistics

Bridge Course

Action taken report of the Bridge-Course

3rd September, 2020

The course really helped students to clear their basics.

Suggestions	Action taken
<ul style="list-style-type: none">As Bridge course was conducted on ZOOM platform, learners suggested to provide the recordings of lectures	The department took this into consideration and provided YouTube link of lectures.



Subject Teacher



Coordinator

Bunts Sangha's

S. M. Shetty College of Science, Commerce & Management Studies, Powai

Report on Bridge Course

Date: 4/9/2020

Date: 25th August to 29th August 2020

Platform: ZOOM Platform

Time: 3:00 PM to 4:00 PM

The Department of Mathematics & Statistics has Bridge Course for the learners of first year BSc IT from 25th August to 23th August 2020 from 3:00 PM to 4:00 OM over ZOOM Platform. The Bridge Course classes were taken by prof. Suman Upadhyay.

The no. of learners attended the lectures are given below

Date	Total no. of student
25/8/2020	129
27/8/2020	134
28/8/2020	112
29/8/2020	142

Outcome: The learners were very happy with the Bridge Course Classes. Many concepts of Mathematics got clear in lectures and this will help students to understand the content mentioned in SEM-I Discrete mathematics syllabus given by University of Mumbai.



Subject Teacher

Suman Upadhyay



Co-ordinator

Q1) How many ways 3 digit numbers can be formed from 1, 2, 3, 4, 5

i) Repetitions are not allowed

ii) Repetitions are allowed

Solution: 1, 2, 3, 4, 5

5 ways x 4 ways x 3 ways = 60 ways

(60) 3-digit nos we can form in which nos will not be repeated from {1, 2, 3, 4, 5}

ii) 1, 2, 3, 4, 5

5 ways x 5 ways x 5 ways = 125 ways

Q2) How many 3-digit odd nos can be formed from {1, 2, 3, 4, 5}

Solution: 248 ← It is divisible by 2

251

1, 3, 5, 7, 9

4 ways x 5 ways x 5 ways = 100 ways

12 ways + 100 ways = 112 ways

add 100

Module-4: Counting principle:

Permutation (Arrangement) $n! \quad nPr$

Combination (Selection) $n \quad r \quad nCr$

Counting

Q1) In how many ways we can select any one of the many items.

OR

1st rule counting

3 ways + 2 ways = 5 ways

Q2) In how many ways we can select 1 pen and 1 marker.

1 pen → 3 choices

1 marker → 2 choices

3 x 2 = 6 ways

total = 6

OneNote for Windows 10 | Suman Upadhyay

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Heading 1 Dictate

$f(x) \rightarrow y$ is an image of x .

Function Every element of Set A should have an unique image in B

X not function

Domain & Range

Domain \rightarrow All the possible inputs

Range \rightarrow all the possible output

$f(2) = 3$ Domain \rightarrow all the possible values of x

$f(1) = 1$ Range \rightarrow all the possible output

$f(2) = 2$

$f(3) = -1$ $f(-1) = 1$

$f(2) = 2^2$ $f(1) = 1$

Domain :- all possible inputs

Range :- all the values ≥ 0

$f(x) = \frac{1}{x-2} = \frac{1}{0} = \text{undefined}$ $\sqrt{x} \rightarrow +2$

Domain = All the possible input $x \neq 2$

Range = all possible output

$f(x) = \sqrt{x-3}$ $x-3 \geq 0$ $|x \geq 3$ $\sqrt{\text{fve}} = \text{fve}$

Domain =

Range = all the possible values of output

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10:46 04-05-2021