



JNAN VIKAS MANDAL'S
Amratlal Raichand Mehta Degree College of Arts
Diwali Maa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmashree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli Navi Mumbai

Date: 26.04.2022

NOTICE

All faculties of the Science Department are hereby informed that tomorrow on 27.04.2022 there will be meeting at 1 p.m. in Principal's room.

All the members are requested to be present for the same.

AGENDA

- 1] To discuss about conducting "Bridge Course" for the academic year.
- 2] Any other matter with the permission of Chairperson.



Leena
Dr. Leena Sarkar

(Principal & Chairperson)

PRINCIPAL
JNAN VIKAS MANDAL'S
M.R. MEHTA COLLEGE OF COMMERCE
D.M. COLLEGE OF SCIENCE
A.R. MEHTA COLLEGE OF ARTS
Dr. R.T. DOSHI COLLEGE OF COMPUTER SCIEN
Plot No.9, SEC- 19, AIROLI,
NAVI MUMBAI-400 708



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Date: 27.04.2022

Minutes of the Meeting

Meeting was held with the faculties of Science Department on 27.04.2022 at 1.00 p.m chaired by Principal Dr. Leena Sarkar

Following points were discussed in the meeting :-

- 1] Principal Dr. Leena Sarkar madam advised that faculties from all department of science should conduct "Bridge Course" for S.Y. and T.Y. B.Sc. class with an objective to make students familiar with the concepts related to the syllabus to be dealt in the coming year
- 2] In this meeting, time table and syllabus for Bridge Course was finalized.
- 3] Meeting was end with vote of thanks.

Following members were present in the meeting: -

1. Dr. Leena Sarkar [Principal] *Leena Sarkar*
2. Asst. Prof. Sandhya Patil *Sandhya Patil*
3. Asst. Prof. Harshada Niju *Harshada Niju*
4. Dr. Prajakta Kadu *Prajakta Kadu*
5. Dr. Prajakta Kadu *Prajakta Kadu*
6. Asst. Prof. Savita Kumari *Savita Kumari*
7. Dr. Shweta Rathore *Shweta Rathore*
8. Asst. Prof. Sagar Shinde *Sagar Shinde*
9. Asst. Prof. Nishant Bist
10. Asst. Prof. Pintoo Jiaswar *Pintoo Jiaswar*

Sandhya Patil
Asst. Prof. Sandhya Patil
Science Incharge



Leena Sarkar
Dr. Leena Sarkar
Principal & Chairperson)

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JNAN VIKAS MANDAL'S (Linguistic Minority)

Mohanlal Raichand Mehta College of Commerce
DiwaliMaa College of Science
Amritlal Raichand Mehta College of Arts
Dr. R.T. Doshi College of Computer Science
Plot No.9, Sector -19, Airoli, Navi Mumbai 400708

Program	B.Sc.
Year	2022-23
Eligibility Class	S.Y.B.Sc.
Course	Bridge course in Science
Number of Lectures	30
Objectives of the Course	
<ul style="list-style-type: none">• To create strong problem solving skills as a science student• To build concrete foundation for their core branch as a thinker, inter disciplinary thoughts and socio- technical issues in field.• To create advance applied knowledge of various disciplines of Science.• A breather, to prepare themselves before courses commence.	
Course Outcome	
<ul style="list-style-type: none">• Student will be able to apply knowledge of basic theories of Science.• Student will be able to create an experimental approach in applied theories of science in problem solving technical problems.• Student will be able to associate natural phenomenon with technological advancement.• It has helped students for enhancing critical thinking skills through self-exploration and class experiences.	





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SCIENCE DEPARTMENT
BRIDGE COURSE SYLLABUS (2019-2020) ²⁰²²⁻²³


LEVEL-II (13th June-18th June 2022)

The Bridge Course for S.Y. B.Sc. was divided into 8 modules. Following Faculty members have undertaken the bridge course:

1. Asst. Prof. Sagar Shinde : S.S.
2. Asst. Prof. Nishant Bisht : N.B.
3. Asst. Prof. Harshada Niju: H.N.
4. Asst. Prof. Sandhya Patil : S.P
5. Asst. Prof. Shweta Rathore: S.R.
6. Dr. Prajakta Kadu : P.K.
7. Dr. Kanika Pahwa: K.P.
8. Asst. Prof. Pintoo Jaiswar: P.J.


Asst. Prof. Sandhya Patil
Science Incharge




Dr. Leena Sarkar
Principal & Chairperson)

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SCIENCE DEPARTMENT

BRIDGE COURSE CONTENT- 2022-23

LEVEL-II (For S.Y.B.Sc.) 13- ~~16~~ June 2022

	MODULE-1	7Hrs.
1.1	Laser (2L)	S.S.
1.2	Crystal Physics	S.S.
1.3	Basics of number system	S.S.
1.4	Code conversion	S.S.
	MODULE-2	7Hrs.
2.1	Basics of SHM (2L)	N.B.
2.2	Basics of Thermodynamics	N.B.
2.3	Calculus and Co-ordinate system	N.B.
	MODULE-3	6Hrs.
3.1	Chemical Thermodynamics: Terms involved, types of system, types of processes, Laws of thermodynamics	H.N.



3.2	Chemical Kinetics: Terms involved, conditions of ideality involving different laws	H.N.
3.3	Electrochemistry: Electrolysis, types of electrolytes, types of cells	H.N.
3.4	Concept of Concentration	H.N.
3.5	Resonance in Aromatic compounds 2L	S. R.
	MODULE-4	7Hrs.
4.1	Trends in periodic properties 1L	S.R.
4.2	IUPAC (Carbonyl) , Types of Organic reactions 3L	S. R.
4.3	Introduction to Analytical Chemistry and Classification of Methods of Analysis	S.P.
4.4	titrimetric methods	S.P
4.5	Optical Methods of Analysis	S.P
	MODULE-5	6Hrs.
5.1.	Parasitology	P.K.
5.2.	Genetics	K.P.
5.3	Nutrition	P.K.
5.4	Apiculture	K.P.

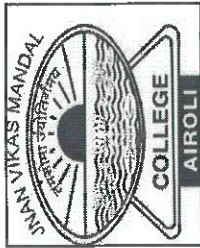


5.5	Respiration in animal	P.K.
5.6	Genetic material	K.P.
	MODULE-6	6Hrs.
6.1.	Locomotion in animals	P.K
6.2	Chromosome	K.P
6.3.	Ethology	P.K
6.4.	Circulatory System	K.P
6.5.	Sericulture	P.K
6.6	Excretion	K.P
	MODULE-7	12L
7.1	Norm, distance, inner product of vectors(2L)	P.J
7.2	Partial derivatives concept (2L)	P.J
7.3	Equation of tangent and normal to curve (2L)	P.J
7.4	Linear transformation	P.J
7.5	Matrix inverse. Determinant	P.J
7.6	Volume of parallelepiped and tetrahedron	P.J
	MODULE-8	3L



8.1	Finding successive terms in recurring relation	P.J
8.2	Power set, Cartesian product	P.J
8.3	Computation of Euler's function on Natural Number	P.J





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Bridge course Time-table

13th - 18th June 2022

Class - S.Y.B.Sc.

Academic year: 2022-23

Time	Day					
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9.00 To 10.00	(P.K)	(K.P)	(H.N.)	(S.R)	(P.K.) / NB	(S.R)
10.00 To 11.00	(H.N.)/(P.J)	(SR) / (P.J)	(P.K)/(N.B)	(K.P)/(S.S)	(K.P)(N.B) (P.K.) / (S.S).	
11.20 TO 12.20	(S.R.)/(P.J)	(S.P) / (P.J)	(S.P.)/P.J)	(P.K)/(N.B)	(S.P.)/(P.J)	(K.P)/(S.S)
12.20 To 1.20	(K.P)/(N.B)	(P.K)/(S.S)	(K.P)/(S.S)	(H.N.)/(P.J)	(S.R.)/(P.J)	(H.N)/(P.J)

H.N - Mrs Harshada Nijju
P.J - Mr. Pintoo Jaiswar

S.P - Mrs. Sandhya Patil
P.K - Dr. Prajakta Kadu

S.K - Miss Savita Kumari
K.P-Dr. Kanika Pahawa

S.R - Dr. Shweta Rathore

N.B - Mr. Nishant Bist

S.S - Mr. Sagar Shimde

Heena

Sign of H.O.D-

Heena

Sign of Principal-



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SCIENCE DEPARTMENT

ATTENDANCE SHEET S.Y.B.Sc Term I Bridge Course 2022-23

1. Name of Teacher: Dr. Shweta Rathore					
Name of Student	13/6/22	14/06/22	16/06/22	17/6/22	18/6/22
Apeeksha Indore	P	P	P	P	P
Samruddhi Londhe	P	P	A	A	A
Nikita Lagade	P	A	P	P	P
Parul Singh	A	P	P	P	P
Sanika Pote	A	A	P		P A
Pratiksha Bore	A	A	A		P A
Riya Vishwakarma	P	P	P	P	P
Lotale Jayawant	A	P	A	A	A
Anshika	P	A	A	P	A
Pooja Shah	P	P	A	P	A
Avaneesh	A	P	A	A	A
Jaywant Lotale	A	P	A	A	A
2. Name of Teacher: Asst. Prof. Harshada Niju					
Name of Student	13/6/22	15/6/22	16/6/22	18/6/22	
Apeeksha Indore	P	P	P	P	
Samruddhi Londhe	P	A	A	A	
Nikita Lagade	P	P	P	P	
Parul Singh	A	P	P	P	
Sanika Pote	A	A	P	A	
Riya Vishwakarma	P	P	P	P	
Anshika	P	A	A	A	
Pooja Shah	P	A	A	A	
Avaneesh	A	P	A	A	



3. Name of Teacher: Asst. Prof. Sandhya Patil				
Name of Student	14/6/22	15/6/22	17/6/22	
Apeeksha Indore	P	P	P	
Samruddhi Londhe	P	A	A	
Nikita Lagade		P	P	
Parul Singh	P	P	P	
Sanika Pote	A	A		P
Pratiksha Bore	A	A		P
Riya Vishwakarma	P	P	P	
Lotale Jayawant	P	A	A	
Anshika	A	A	P	
Pooja Shah	P	A	P	
Avaneesh	P	P	A	
Jaywant Lotale	P	A	A	
Omkar	A	A	P	

4. Name of Teacher: Asst. Prof. Sagar Shinde					
Name of Student	13/6/22	14/6/22	15/6/22	16/6/22	18/6/22
Apeeksha Indore	P	P	P	P	P
Samruddhi Londhe	P	P	A	A	A
Nikita Lagade	P	A	P	P	P
Parul Singh	A	P	P	P	P
Riya Vishwakarma	P	P	P	P	P
Lotale Jayawant	A	P	A	A	A
Anshika	P	A	A	A	A
Pooja Shah	P	P	A	A	A
Avaneesh	A	P	P	A	A
Jaywant Lotale	A	P	A	A	A

5. Name of Teacher: Dr. Prajakta Kadu						
Name of Student	13/6/22	14/6/22	15/6/22	16/6/22	17/6/22	18/6/22
Apeeksha Indore	P	P	P	P	P	P
Samruddhi Londhe	P	P	A	A	A	A
Nikita Lagade	P		P	P	P	P
Parul Singh	A	P	P	P	P	P
Sanika Pote	A	A	A	P		P ^A



Pratiksha Bore	A	A	A	A		P	A
Riya Vishwakarma	P	P	P	P	P		P
Lotale Jayawant	A	P	A	A	A		A
Anshika	P	A	A	A	P		A
Pooja Shah	P	P	A	A	P		A
Avaneesh	A	P	P	A	A		A
Jaywant Lotale	A	P	A	A	A		A
Omkar	A	A	A	A	P		A
Name of Student	13/6/22	14/6/22	15/6/22	16/6/22	17/6/22		18/6/22
Apeeksha Indore	P	P	P	P	P		
Samruddhi Londhe	P	P	A	A	A		
Nikita Lagade	P		P	P	P		
Parul Singh	A	P	P	P	P		
Sanika Pote	A	A	A	P		P	
Pratiksha Bore	A	A	A	A		P	
Riya Vishwakarma	P	P	P	P	P		
Lotale Jayawant	A	P	A	A	A		
Roshni Prajapati	A	A	A	A	A		
Anshika	P	A	A	A	P		
Pooja Shah	P	P	A	A	P		
Avaneesh	A	P	P	A	A		
Jaywant Lotale	A	P	A	A	A		
Omkar	A	A	A	A	P		
7. Name of Teacher: Asst. Prof. Pintoo Jaiswar							
Name of Student	13/6/22	14/6/22	15/6/22	16/6/22	17/6/22		18/6/22
Apeeksha Indore	P	P	P	P	P		P
Samruddhi Londhe	P	P	A	A	A		A
Nikita Lagade	P		P	P	P		P
Parul Singh	A	P	P	P	P		P
Sanika Pote	A	A	A	P		P	A
Pratiksha Bore	A	A	A	A		P	A
Riya Vishwakarma	P	P	P	P	P		P
Lotale Jayawant	A	P	A	A	A		A
Anshika	P	A	A	A	P		A
Pooja Shah	P	P	P	A	P		A



Avaneesh	A	P	A	A	A	A
Jaywant Lotale	A	P	A	A	A	A
Omkar	A	A		A		P ^A
8. Dr. Kanika Pahwa						
Name of Student	13/6/22	14/6/22	15/6/22	16/6/22	17/6/22	
Apeeksha Indore	P	P	P	P	P	
Samruddhi Londhe	P	P	A	A	A	
Nikita Lagade	P		P	P	P	
Parul Singh	A	P	P	P	P	
Sanika Pote	A	A	A	P		P
Pratiksha Bore	A	A	A	A		P
Riya Vishwakarma	P	P	P	P	P	
Lotale Jayawant	A	P	A	A	A	
Anshika	P	A	A	A	P	
Pooja Shah	P	P	P	A	P	
Avaneesh	A	P	A	A	A	
Jaywant Lotale	A	P	A	A	A	
Omkar	A	A	A	A		P





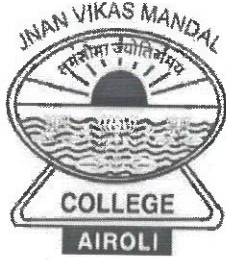
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S.Y. B.Sc., BRIDGE COURSE (2022-23)

Assessment Record

Name of Student	Physics (20)	Chemistry (20)	Zoology (20)
Apeeksha Indore	14	17	15
Samruddhi Londhe	16	-	-
Nikita Lagade	15	16	13
Parul Singh	13	13	15
Sanika Pote	15	14	16
Pratiksha Bore	16	12	14
Riya Vishwakarma	17	16	18
Lotale Jayawant	12	10	12
Anshika	17	16	17
Pooja Shah	14	15	-
Avaneesh	13	15	-
Omkar Naware	17	18	16






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BRIDGE COURSE (2022-23)


Summary Report

The Bridge course was successful in achieving its objectives. It provided supplemental knowledge to students along with an elementary understanding of the advanced subjects that will teach them in the future. The curriculum of course may ensured that student has a basic knowledge of the course that will guide him. The course helped students to better understand the expectations of their new academic level and make a smooth transition into their new program. It helped students to build confidence and develop new skills that were useful in their future studies. Thus, overall it enabled the learner

- To build concrete foundation for their core branch as a thinker, inter disciplinary thoughts and socio- technical issues in field.
- To create advance applied knowledge of various disciplines of Science.
- To create strong problem solving skills as a science student


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