



Estd. 1982

JAI HIND EDUCATIONAL TRUST'S

**ZULAL BHILAJIRAO PATIL COLLEGE, DEOPUR, DHULE
424002 (MS) INDIA**

Criterion- I Currucular Aspects

1.3 Curriculum Enrichment

1.3.2. Students undertaking Project work/
Field work / Internships/ Survey

Academic Year (2022-2023)

INDEX OF DOCUMENTS

Sr. No.	Document name
1	List of student along with the details of title, place of work, duration etc.




Principal

(Dr. P.H.Pawar)
PRINCIPAL

Jai Hind Educational Trust's
Zulal Bhilajirao Patil College,
Shikshanmaharshi Nanasaheb
Z.B Patil Marg, Deopur, DHULE-2

JET'S Z.B. Patil College, Dhule
Dept. of Commerce and Management
Class:- TYBCA

List of Students and Field Work Titles A.Y.-2022-23

Sr. No	Class & Course Title	Course Code	Year of offering	Student Name	Project Title	Place	Duration	Link
1				BHAMARE NEHA CHANDRAKANT	Academic Performance analysis system			
2				KHIVASARA VISHAKHA ANIL	Advocate Repository			
3				KULKARNI CHAITALI NITTIN	Advocate Repository			
4				KULKARNI SWAPNESH ANURAG	Amazon Websites & their business strateg			
5				PATIL HIMANSHU VASANTRAO	Angle one Brokerage System			
6				PUROHIT VINAY PURSHOTTAM	Angle one Brokerage System			
7				PATIL MITALI ANIL	Backery management system			
8				PATIL VRUSHALI RATILAL	Bank Loan Analysis System			
9				CHAUDHARI SHAMALI MANOHAR	Blood bank Management system			
10	TYBCA			PARMAR RUCHA PRADEEPSING	Bus-Travels Booking system			
11	Sem-V			PATIL ABHAY MAGAN	City Cleanliness System			
12				PATIL YATISH SHANKARRAO	City Cleanliness System	JET'S		https://nmu.ac.in
13	Field	BCA-507	2022-23	BHADANE HARSHAL JAYWANT	Cloud Based Attendance System	Z.B.Patil	Six	/Student-
14	Work			PATIL HARSHAL SANJAY	Cloud Based Attendance System	College,	Months	Corner/Academic
15	Viva-voce			NIKWADE SONALI PRAVIN	Cold Storage Management System	Dhule		s/Syllabi
16				RANE CHETALI SANJAY	Cold Storage Management System			
17				BARI NANDINI JAYWANT	College Event Management System			
18				CHAUDHARI KHUSHI TUSHAR	College Management System			
19				PATIL CHETANA SHANTARAM	College Management System			
20				DESALE DEVYANI SURESH	Data Structure Tutor System			
21				CHAUDHARI NAMRATA CHANDRAKANT	E-course selling Website			
22				KHANDELWAL BHAVESH ASHISH	Employee Management System			
23				SAHANI GURVANSH SINGH PARAMPREET	Employee Management System			
24				PATIL SHWETA DHANRAJ	E-Tender System			
25				PATIL RUPESH KISHOR	e-Vaccination system			
26				CHAUDHARI ASHVINI PRAMOD	Farming Chemical Shop			



27			GAVIT TRUSHANT DILIP	Finance Management System		<p>JET'S Z. B. Patil College, Dhule</p> <p>Six Months</p> <p>https://nm.u.ac.in /Student- Corner/Academic s/Syllabi</p>
28			KHALANE NAYAN MAHESH	Finance Management System		
29			BHAMARE SHIDHARATH SURESH	Flipkart Analysis		
30			BORSE KUNAL VIKAS	Flipkart Analysis		
31			KHAIRNAR YATISH GANESH	Food Ordering System		
32			PATIL NILESH PRAKASH	Food Ordering System		
33			BIRARI OM SHANTARAM	Gas Agency Management System		
34			BORSE AKASH RAMDAS	Gas Agency Management System		
35			DHANGAR SIDHESH ASARAM	Analysis of Goto Meeting study system		
36			SONAWANE VISHAL KAUTIK	Analysis of Goto Meeting study system		
37			KHILOSIYA KHUSHBOO BHARATKUMAR	Grocery Management System		
38			PATIL HRISHIKESH ANANDA	Grocery Management System		
39			DESALE SANIKA CHANDRAKANT	Gym Management System		
40			SINGH PRIYAVARAT PANKAJ	Gym Management System		
41			VISSUTE SAMAR DEVENDRA	Gym Management System		
42			MAHUKAR SHIVANI RAMESH	Home Service Management System		
43			AHUJA SOMIYA PRAVIN	Hotel Management System		
44			BHADANE RUTUJA MILIND	Hotel Management System		
45			RAPUT BHUMIKA KAILAS	Hotel Management System		
46			PATIL VISHVANATH DNYANESHWAR	Jewellery Management System		
47			POTDAR SANCHIT MAHENDRA	Jewellery Management System		
48			KULKARNI JANHAVI KAMILAKAR	Lecture Allocation System		
49			CHAUDHARI DHANASHRI SUNIL	Library Management System		
50			GIRASE MIRABAI SATTARSING	Library Management System		
51			JAIN ABHISHEK PRAFULLKUMAR	Logging and Receipt Generator system		
52			KHADKE ROHIT SHRIPAD	Logging and Receipt Generator system		
53			SHAH MOHAMMED AFTAB AKBAR	Mahatma Jyotirao Fule Jana Aarogya Yojna		
54			SHAIKH SAHIL NAEEM	Mahatma Jyotirao Fule Jana Aarogya Yojna		
55			SHIMPI PRAITHAM GANESH	Mobile based voting Application system		
56			WALHE AMOL RAJENDRA	Mobile based voting Application system		
57			CHAUDHARI PRAITHAMESH PRASHANT	Mobile effect on youth		
58			PAWAR KAJAL KISHOR	Mobile Shop system		
59			NIRGUDE KRUSHNA GHANSHYAM	Old Age Home System		
60			GAVHANE ANJALI VILAS	Online Attendance system		



61	VASAVE ROHINI RAKESH	Online Attendance system			
62	BORSE NIKITA BHALERAO	Online Blood Bank Repository			
63	PATIL AAKANKSHA JAGDISH	Online Blood Bank Repository			
64	SONAWANE NANDINEE SANTOSH	Online Book shop			
65	PATIL BHAGYASHRI ARUN	Online CAB booking system			
66	AHIRE HETAL SHIVDAS	Online Cloth System			
67	MAJI ANJALI SHAMKUMAR	Online Cloth System			
68	PATIL NEHA ASHOK	Online Cosmetic Product Shopping			
69	PAWAR CHANDANI KAILAS	Online Cosmetic Product Shopping			
70	PATIL BHAGYASHRI GOTU	Online Food System			
71	AHIRE PALLAVI LAXMAN	Online Gold loan Management system			
72	PATIL HARSHADA YASHWANTRAO	Online Gold loan Management system			
73	MAJI SAURABH DATTATRAY	Online learning application			
74	PAWAR VAIBHAV BHIKAN	Online learning application			
75	SAVALE GAYATRI RAVINDRA	Online Library System			
76	PATIL KUNDAN ASHOK	Online Mobile shop			
77	PATIL VAIBHAV PRABHAKAR	Online Mobile shop			
78	DEORE SAGAR MOTILAL	Online NCC system			
79	PATIL JAGRUTI SHARAD	Online Property Sales and Purchase System			
80	PAWAR MIHIR NITIN	Online SBI system			
81	SHAIKH DANISH NASIR	Online SBI system			
82	BHADANE YASH RAVINDRA	Online Share and Loan system			
83	PATIL JAYKUMAR NARENDRA	Online Share and Loan system			
84	BORSE BHAGYASHRI MOHANLAL	Online shopping system			
85	MORE NEHA MACHHINDRA	Online shopping system			
86	SONAWANE POOJA SANJAY	Petrol Pump System			
87	BAGUL NIKHIL DNYANESHWAR	Police Duty Allocation & accident informa			
88	GIRASE SIDDHESH KOMALSING	Police Duty Allocation & accident informa			
89	BAGUL MANASI SURESH	Report On Online Jewellery Shopping			
90	JADHAV RAJ VIKRAM	S.T. Bus duty allocation system			
91	SONAWANE SAHIL RANDHIR	S.T. Bus duty allocation system			
92	NIKAM RUTUJA PRABHAKAR	Store location analysis of Reliance fresh			
93	PATIL RUTIKA SHAMKANT	Store location analysis of Reliance fresh			
94	MAJI LALIT RAMESH	Student Information System			

JET'S
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Six
Months

<https://nmu.ac.in/Student-Corner/Academics/Syllabi>



95				MALI ANAND NANA	Study of Online Travels booking		
96				WALHE GAYATRI NIMBA	Study of Online Travels booking		
97				MALI MOHNISH SUDAM	Tourist Management System		
98				MISTARI NILESH LOTAN	Tourist Management System		
99				BADGUJAR UMESH MANOHAR	Transportation Management System		
100	TY/BICA			DEVARE SHUBHAM VIJAY	Transportation Management System		
101	BICA-			BHADANE SHUBHAM SUNIL	Weather Application System		
102	5:07			RAMRAJE PRERNA RAJESH	Weather Application System		
103	Field	BICA-5:07	2022-23	PATIL ROSHNI SUNIL	Web Templates for Resume		
104	VM/CRK			MALIK NEHAL NAIM	Wellness Forever Pharmacy System		
105	Viva-			VANJARI VAIBHAV BALU	Wellness Forever Pharmacy System		
106	voice			JOSHI DIVYESH SUNIL	YONO- SBI system		
107				CHAUDHARI TEJSWINI SANJAY	College Attendance System		
108				ISHI PRASHIK PANDHARINATH	College Attendance System		
109				PATIL KAMLESH VILAS	Sales Purchase System		
110				PATIL MAHESH KAILAS	Sales Purchase System		

[Signature]

HEAD,
Department of Commerce & Mgt
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JET'S
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Six
Months

<https://nmu.ac.in/Student-Corner/Academic/s/Syllabi>

JET's Z.B. Patil College, Dhule
Dept. of Commerce and Management
Class:- TVBCA

List of Students and Project Titles A.Y.-2022-23

Sr. No	Class & Course Title	Course Code	Year of offering	Student Name	Project Title	Place	Duration	Link
1	TVBCA Sem-VI Project Viva- voce	BCA- 607	2022-23	BHAMARE NEHA CHANDRAKANT	Result Analysis System	JET'S Z.B.Patil College, Dhule	Six Months	https://nmu.ac.in/Student-Corner/Academics/Syllabi
2				KHIVASARA VISHAKHA ANIL	Rotary Club Portal			
3				KULKARNI CHAITALI NITTIN	SPARSH - Chit Fund			
4				KULKARNI SWAPNESH ANURAG	E Shop Online product Booking Website			
5				AHIRE HETAL SHIVDAS	Fashion Designing System			
6				AHIRE PALLAVI LAXMAN	Post Office Management System			
7				PATIL MITALI ANIL	Gold Loan System			
8				PATIL VRUSHALI RATILAL	Bank Loan Analysis System			
9				CHAUDHARI SHAMALI MANOHAR	Blood Bank Management System			
10				PARMAR RUCHA PRADEEPSING	Ticket Reservation System			
11				BAGUL NIKHIL DNYANESHWAR	Police Duty Allocation			
12				BHAMARE SHIDHARATH SURESH	Estimate Management System			
13				BHADANE HARSHAL JAYWANT	Saving Bank Account Management System			
14				PATIL HARSHAL SANJAY	Bicycle Shop Management System			
15				NIKWADE SONALI PRAVIN	Online Gold Storage Booking System			
16	RANE CHETALI SANJAY	Health Insurance						
17	BARU NANDINI JAYWANT	College Event Management System						
18	CHAUDHARI KHUSHI TUSHAR	Book Shop Management System						
19	PATIL CHETANA SHANTARAM	Advertisement Management System						
20	DESALE DEVYANI SURESH	Payroll Accounting System						
21	BORSE KUNAL VIKAS	Kirana Billing System						
22	KHANDELWAL BHAVESH ASHISH	Inventory Management System						
23	SAHANI GURVANSI SINGH PARAMPREET	Employee Management System						
24	BORSE NIKITA BHALERAU	Online Cycle Studio						
25	PATIL RUPESH KISHOR	Covid Vaccination System						
26	CHAUDHARI ASHVINI PRAMOD	Computer Purchase And Sales System						



27			CHAUDHARI NAMRATA CHANDRAKANT	E-Course Selling Website		
28			DHANGAR SIDHDESH ASARAM	Advocate Diary		
29			GAVIT TRUSHANT DILIP	Digital Driving School Management System		
30			GIRASE SIDDHESH KOMALSING	Electronic Shop Billing System		
31			KHAIRNAR YATISH GANESH	Two Wheeler Studios		
32			PATIL NILESH PRAKASH	Food Ordering System		
33			BIRARI OM SHANTARAM	Tree Plantation Management		
34			BORSE AKASH RAMDAS	Wine Shop Billing System		
35			KHALANE NAYAN MAHESH	School Fees Payment Management System		
36			MAHUKAR SHIVANI RAMESH	Home Services System		
37			KHILOSIVA KHUSHBOO BHARATKUMAR	Online Sweetmart		
38			PATIL HRISHIKESH ANANDA	Institute Management System		
39			DESALE SANIKA CHANDRAKANT	Hospital Management System		
40			SINGH PRIYAVARAT PANKAJ	Courier Management System		
41	TYBCA		VISPUTE SAMMAR DEVENDRA	Online Fitness Membership System		
42	Sem-VI		MALI ANAND NANA	Medicine Distribution System		
43		BCA-	AHUJA SOMIYA PRAVIN	Jewellery Management System		
44	Project	607	BHADANE RUTUJA MILIND	Event Management System		
45	Viva-		RAJPUT BHUMIKA KAILAS	Transport Management System		
46	voce		PATIL VISHVANATH DNYANESHWAR	Online Pathology Laboratory		
47		2022-23	POTDAR SANCHIT MAHENDRA	Online Building Material Inventory System		
48			KULKARNI JANHAVI KAMLAKAR	Lecture Allocation System		
49			CHAUDHARI DHANASHRI SUNIL	Medical Billing System		
50			GIRASE MIRABAI SATTARSING	Library Management System		
51			JAIN ABHISHEK PRAFULLKUMAR	ABHA Health Insurance System		
52			KHADKE ROHIT SHRIPAD	Digital Society System		
53			SHAH MOHAMMED AFTAB AKBAR	Visitors Gate Pass Generators		
54			SHAIKH SAHIL NAEEM	Vehicle Showroom Management System		
55			SHIMPI PRATHAM GANESH	Baking BOT		
56			WALHE AMOL RAJENDRA	Photo Studio Management System		
57			CHAUDHARI PRATHAMESH PRASHANT	Hotel Table Booking System		
58			PAWAR KAJAL KISHOR	MOBILE Shop Billing System		
59			NIRGUDE KRUSHNA GHANSHYAM	OLD Age Home		
60			GAVHANE ANJALI VILAS	Online Attendance System		

JET'S
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Six
Months

<https://nmu.ac.in/Student-Corner/Academics/Syllabi>



96			SONAWANE VISHAL KAUTIK	Pass Management System	JET'S Z.B. Patil College, Dhule	Six Months	https://nmu.ac.in/Student-Corner/Academics/Syllabi
97			WALHE GAYATRI NIMBA	College Admission System			
98			MALI MOHNISH SUDAM	Class Admission System			
99			MISTARI NILESH LOTAN	Tourist Management System			
100	TYBCA Sem-VI		BADGUJAR UMESH MANOHAR	Bachat Gat Management System			
101			DEVARE SHUBHAM VIJAY	Product Sales System			
102		BCA- 607	BHADANE SHUBHAM SUNIL	Petrol Pump System			
103	Project	2022-23	RAMRAJE PRERNA RAJESH	Encryption Decryption Using Python			
104	Viva- voce		PATIL ROSHNI SUNIL	E-Plastic Management System			
105			MALIK NEHAL NAIM	Pet Shop Management System			
106			VANJARI VAIBHAV BALU	Cargo Management System			
107			JOSHI DIVYESH SUNIL	Waste Food Distribution System			
108			CHAUDHARI TEJSWINI SANJAY	Online Tours and Travels Mgt System			
109			ISHI PRASHIK PANDHARINATH	Jewellery Shop Management System			
110			PATIL KAMLESH VILAS	Medicine Sale & Purchase System			
			PATIL MAHESH KAILAS	Movie Ticket Booking Management System			

PATIL
HEAD,
Department of Commerce & Mgt
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PATIL
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JET'S Z.B. Patil College, Dhule
Dept. of Commerce and Management

Class:- TYBBA

List of Students and Project Titles A.Y.-2022-23

Sr. No	Class & Course Title	Course Code	Year of offering	Student Name	Project Title	Place	Duraton	Link
1	TYBBA Sem-VI Project Viva- voce	A-6.7	2022-23	BRAHMANKAR VIPUL BALKRUSHNA	A Study of Quality Online Banking Services	JET'S Z.B. Patil College, Dhule	Six Mont hs	https://nmu.ac.in/Student-Corner/Academics/Syllabi
2				CHAUDHARI VAIBHAV ANIL	Home Loans in ICICI Bank			
3				INAMDAR MOHD SAKIBULLA ABIDULLA	Study of Financial Performance of Wipro Ltd and Infosys Ltd			
4				JAIN SAMKIT PARIMAL	Study and Analysis of ICICI prudential funds			
5				JAMADAR VIPUL VIRENDRA	Financial Products and Services of HDFC Bank			
6				KADAM NISHANT JAGDISH	Comparatively Study of BSE and NSE			
7				MAHAJAN DEVENDRA PRAVIN	A Study on Stock Market Future and Options			
8				PATIL LOKESH GANESH	A Study on Financial Performance Analysys of Tata Steel Ltd			
9				VARMA AASHAY MANOJ	A Study on Introduction of Auditing			

(Signature)

HEAD,

Department of Commerce & Mgt
Zulal Bhilajirao Patil College,
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Dept. of Geology

1.3.2 Number of courses that include experiential learning through project work/field work/internship during the year

Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Year of offering	Project Name	Name of the student studied course on experiential learning through project work/field work/internship	Link to the relevant document
SEM - V	T.Y.B.Sc. GEOLOGY	Practical Related To Geol: 502, 504 and Field Geology	GEOOL:509	2022-23	Geographical study of Panzara river, Ner, Taluka and District: Dhule, Akkarpada dam, Taluka: Sakri, District: Dhule, Kalamthir and Raipur Dykes, Taluka: Sakri	Aade Isha Yavraj Bhadane Shradddha Bhaskar Chaudhari Khushi Anil Marathe Bhavesh Rajesh More Tejashri Rakesh Neel Sanjana Dattatray Palodkar Nisha Limesh Patil Aditi Rajesh Patil Harshala Kushor Patil Pooja Murthidar Yadav Nikita Ranshahar	https://mmu.ac.in/Student-Corner/Academics/Sylla or
SEM - VI	T.Y.B.Sc. GEOLOGY	Practical Related To Geol: 603, 604 (Geomorphology, Mineral and Fuel Resources and Field Geology)	GEOOL:609	2022-23	Vertical Electrical Sounding Survey Using Wenner and Schlumberger Methods, Tal and Dist: Dhule	As same above	https://mmu.ac.in/Student-Corner/Academics/Sylla or

Physakwad

Head
Department of Geology,
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Patil
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Wadi Bhokar Road, Dhule.

Information about Projects of Department of Microbiology JET'S Z. B. Patil College, Dhule

Programme name	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship	Project/Field Work Title	Place	Duration	Link to the relevant document
M.Sc. PART II SEM IV	MB-405 PROJECT	2022-23	Patil Ravati Nandkishor	Biosurfactant Producing Bacteria	JET'S Z.B.Patil College, Dhule	ONE SEM	https://mmu.ac.in/Student-Corner/Academics/Syllabi
			Chaudhari Bhagyashri Ashok				
			SHAIKH SAMIRAH KAUSAR SAEED				
			Ahmed				
			Rane Kimaya Anandrao				
			Marathe Dhanshree Piran				
			Yadav Vandana Rajbahadur				
			Patil Kiran Ashok				
			Shinde Pruthiviraj Motiram				
			Khairnar Dnyanesh V.				
			Bhannage Bhargavi P.				
			Antapurkar Shital V.				
			Patil Nikhil S.				
			Bedase Jyoti D.				
Dhaspute Rutuja B.							
Saner Tejas B.							
Nikhubhe Ashwini P.							
More Pallavi B.							
Patil Aarti G.							
Patil Bhagyshri S.							
Jadhav Chetana R.							
Patel Pralad L.							
				Production Of Biofertilizer from waste			

HEAD

(Signature)

DEPARTMENT OF MICROBIOLOGY
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Information about Projects of Department of Physics JET'S Z. B. Patil College, Dhule

Programme name	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/Internship	Project/Field Work Title	Place	Duration	Link to the relevant document
B.Sc.Physics Project I & II	PHY 509/PHY 609	2022-23	Patil Yogesh Ashok	Study of Operational amplifier (IC-741)	JET'S Z. B. Patil College, Dhule	One Year	https://amu.ac.in/Student-Corner/Academics/Syllabi
			Badgujar Neha Sanjay	Study of green hydrogen			
			Shimpi Mansi Rajesh	Application of JFET			
			Baviskar Prajakta Naval	Music light			
			Patil Jaee Sunil	Wireless power transfer system			
			Deore Jayashri Shivaji	Home security LASER			
			Vadar Deepak Krishna	Application of Op-amp as an integrator			
				& differentiator			
			Thakur Snehil Ashokkumar	Automatic street light control system			
			Khan Aman Akil	Nuclear Energy			
			Sisode Anushka Sunil	Understanding the Universe			
			Sayed Zahid Nadeem	IV characteristics of UJT			
			Patil Lalit Suresh	Electromagnetic Induction			
Wagh Pravin Mahendra	Over temperature alarm						
Yadav Rohit Bharat	Study of solar energy						
Sharma Aishwarya Manish	Fire Alarm Circuit using IR receiver						
Salunkhe Hiral Ramesh	Use of Op-amp as an integrator						
Pawar Manasi Mohan	Application of IC-555						

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Head

Department of Physics
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Dhule - 424 002.



PRINCIPAL

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Jai Hind Educational Trust's
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Deopur, DHULE - 424002.

Information about projects of department of Statistics Of JET's Z.B.Patil College Dhule

Academic Year: - 2022-23

Program name	Course code	Year Of offering	Name of students	Name of the Project/ Field work	Name of the Guide	Place	Duration	Link to The document
B.Sc. Statistics	ST-609 Project	2022-23	More Piyush Jogi Anushka Chetan Vijay	The Impact of Internet usage on students	Prof. G.T.Pedram	Z.B.Patil College Dhule	Six month	https://nmu.ac.in/student-corner/Academics/Syllabi
			Patil Jayesh Patil Siddhant Bagul Kalyani Khatik Shirin	A study on online payment apps among Z B Patil college students	Prof. P. U. Patil			
			Patil Sushil Deore Girish Shelar Pallavi	Personality traits of NCC and non NCC of third year students of Z B Patil College .	Prof. P. U. Patil			
			Kalal Maheshkumar Mali Nikita Nerkar Varsha Patil Snehal	A Statistical analysys of upcoming lok sabha election 2024	Prof. G.T.Pedram			
			Wagh Nikhil Dusing Vedant Patil Vishvaja Gangurde Shejal Pawar Prachi	A Statistical analysis of the old age homes of urban vs. rural vs. semi - rural .	Dr. N.S. Chavan			

Chavan

Head

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Prasad

Information about Projects of Department of Geography, JET'S Z. B. Patil College, Dhule

Programme name	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship	Project/Field Work Title	Place
Socio-Economic Survey of village Lamkani	Gg. 403 (DSC) [LAB-IV] Paper III: Surveying and Area Measurement by GPS	2022-23	Bhamre Rohit Sunil	Village survey	(Village Lamakani)
			Bhamre Bhavesh Bhatu	Village survey	
			Suryawanshi Kalpesh Dnyaneshwar	Village survey	
			Jagruti Panjabrao Nikam	Village survey	
			Nandte Shweta Sanjay	Village survey	
			Bhamre Harshada Mahendra	Village survey	
			Malik Arbaj	Village survey	
			Shekh Adnan	Village survey	
			Bhamare Harshda Dnyaneshwar	Village survey	
			Shinde Hemlata Kishor	Village survey	
			Bhamre Kalpeshwari Sunil	Village survey	
			Patil Harshda Madhukar	Village survey	
			Patil Tejaswini Bhatu	Village survey	
			Thakur Nandini Vidyadhar	Village survey	
			Bhamre Prafull Gulab	Village survey	
			Baviskar Himanshu Kailas	Village survey	
			Patil Manish Kumar Dnyaneshwar	Village survey	
			Patil Vaishnavi Adhikar	Village survey	
			Patil Bhushan Vijay	Village survey	
			Patil Priyanka Chaitram	Village survey	
			Dhivre Vaibhavi Ghansham	Village survey	
			Patil Digambar Asaram	Village survey	
			Patil Pratiksha Prakash	Village survey	
			Patil Komal Ravindra	Village survey	
			Patil Madhuri Kishor	Village survey	
			Patil Eshwar Pravin	Village survey	
			Nagarale Rohini Vijay	Village survey	
			Tadavi Ranjana Virsing	Village survey	
			Bora Aastha Pravin	Village survey	
			Borse Bhagyashri Jagan	Village survey	
Suryawanshi Kalyani Balu	Village survey				
Badane Dhanashri Kishor	Village survey				
Wagh Sagar Chudaman	Village survey				
Khairnar Purushottam Tulsiram	Village survey				
Wagh Diksha Manohar	Village survey				

Qukubh
विभाग प्रमुख
भूगोल विभाग
झुलाल भिलाजीराव पाटील महाविद्यालय
शिक्षणमहर्षी नानासाहेब जेड.बी.पाटील
मार्ग देवपूर, धुळे-४२४००२



Pravin
PRINCIPAL
Jai Hind Educational Trust's
Zulal Bhilajirao Patil College
Shikshanmaharshi
Nanasaheb Z. B. Patil Marg.
Deopur, DHULE - 424002.

Information about Projects of Department of Geography, JET'S Z. B. Patil College, Dhule (01/03/2023)

Programme name	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/Internship	Project/Field Work Title	Place	Duration	Link to the relevant document
Socio-Economic Survey of village Lamkani	Gg. 243 (DSE 2 B): PRACTICAL GEOGRAPHY (Surveying)	2022-23	Pardesi Rahul Vilas	Village survey	(Village Lamakani)	One Day	https://nmu.ac.in/Student-Corner/Academics/Syllabi
			Bhamare Harshal Rajendra	Village survey			
			Khardak Sumit Suresh	Village survey			
			More Puja Bhatu	Village survey			
			Marathe Vishal Rajendra	Village survey			
			ShirshathShekhar Anil	Village survey			
			Shinde Prashant Rajendra	Village survey			
Thakare Jayesh Dattatray	Village survey						

(Signature)
 विभागा प्रमुख
 भूगोल विभाग
 पुणे जिल्हा शिक्षण विकासाचे प्रादेशिक मंडळ
 विभागाध्यक्ष नागसाहेब शेड. बी. पाटील
 मार्ग वेवपूर, धुळे - ४२४००२



(Signature)
 PRINCIPAL
 Jai Hind Educational Trust's
 Zula Bhilajirao Patil College
 Shikshanmaharshi
 Nanasahab Z. B. Patil Marg,
 Deopur, DHULE - 424002.

Information about Projects of Department of Geography, JET'S Z. B. Patil College, Dhule (01/03/2023)

Programme name	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship	Project/Field Work Title	Place	Duration	Link to the relevant document
Socio-Economic Survey of village Lamkani	Gg. 363 (DSE 4B) Practical in Physical Geography	2022-23	Patil Sachin Sanjay	Village survey	(Village Lamakani)	One Day	https://mmu.ac.in/Student-Corner/Academics/Syllabi
			Rajput Anvit Rajendra	Village survey			
			Shah Junaid Salauddin	Village survey			
			Mali Chaitnya Madhvro	Village survey			
			Baisane Ankit Tushar	Village survey			
			Ahire Tejaswini Dilip	Village survey			
			Mahale kirti Kishor	Village survey			
			Bandre Harshal Rajendra	Village survey			
			Patil Niranjana Namdeo	Village survey			
			Chaudhari Sonali Shivdas	Village survey			
			Deore Samadhan Prabhakar	Village survey			
Patil Bhushan Ravindra	Village survey						
Patil Piyush Arun	Village survey						
Patil Shitalwaman	Village survey						
Mankar Aanand	Village survey						

Quinn

विभाग प्रमुख
भौतिक विभाग
जिल्हा शिक्षण प्रशासनाचे प्रादेशीक महाविद्यालय
विभाग प्रमुख, नांदगाव रोड, श्री. गणेश
मार्ग, देवप्र, धुळे - ४२४००२



Sam

PRINCIPAL
Jai Hind Educational Trust's
Zulal Bhilajirao Patil College
Shikshamaharshi
Nanasahab Z. B. Patil Marg,
Deopur, DHULE - 424002.

Information about Projects of Department of Computer Science & Information Technology JET'S Z. B. Patil College, Dhule

Programme name	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship	Project/Field Work Title	Place	Duration	Link to the relevant document
M.Sc.Computer Science Project SEM IV	Mini Project 252405	2022-23	NIKAM PRIYANKA BALASAHAB Patil Mohini Vasant GANGURDE VASANTI SANJAY Khairnar Madhuri Suresh Bachhav Snehal Shashikant Shinde Manasse Mukundrao SHRADHA RAJENDRA KANKARIYA Ahirrao Jitesh Prakash Jadhav Supriya Sunil BHADANE MUKUL RAVINDRA PAWAR YASH CHANDRAKANT PATIL CHINMAYEE GORAKH BAGUL RAHUL BHIVSAN SISODE MRUGANAYANI RAJENDRA Patil Sanjay Ravindra Babar Tejaswinee Jitendra Londhe Komal Hansraj KHAIRNAR TRUPTI SUNIL WAGH KOMAL DIGAMBAR Kadam Neha Bhatu YEOLE MANASI PRAVIN Deore Lina Bhikaji Desale Rahul Chandan	Secure data exchange E-fitness club Online books shopping Online Hotel Management System training and placement Student Bus Pass System Blood group Graphical Password (Image Based Authentication Password) GST billing app Bachat gat management Online Voting System Online vehicle showroom Online fertilizer shopping Gully Control School management System Discount-scheme-portal Grain Distribution Online restaurant table booking E-Real Estate Online Unused Medicine Donation Online Courier system Vehicle Workshop Maintenance.	JET'S Z. B. Patil College, Dhule	One Year	https://apps.nmu.ac.in/syllab/science%20and%20technology/science/2021-22%20M.Sc.%20Computer%20science%20(C8CS%20Pattern).pdf

Head

Department of Comp. Sci. & I.T.
Zulal Bhilajirao Patil College
Shikshanmaharshi Nanasahab
Z. B. Patil Marg, Deopur,
Dhule - 424 002.



Principal

PRINCIPAL
Jai Hind Educational Trust's
Zulal Bhilajirao Patil College
Shikshanmaharshi
Nanasahab Z. B. Patil Marg,
Deopur, DHULE - 424002.

Information about Projects of Department of Computer Science & Information Technology JET'S Z. B. Patil College, Dhule

Programme name	Course code	Year of offering	Name of the student studied course on experimental learning through project work/field work/internship	Project/Field Work Title	Place	Duration	Link to the relevant document
M.Sc. Information Technology Project SEM IV	Mini Project 253405	2022-23	PATIL MAYURI SANJAY LANDAGE VAIBHAVEE DEVANAND Devare Trupti Pravin Dabhade Namrata Prakash MISTARI SHAKUNTALA SANJAY BAGAL BHAGVASHRI AMBARRAJ BIRARI MADHAVAN MANGESH SHINDE JAGRUTI YUVRAJ PAVVAR VARSHA JAGDISH Kadam Shubham Ratnakar Salave Divya Rajendra Lade Anjali Randas BAISANE SEJAL SUNIL THAKARE MAHESH PANDIT Sonawane Nikhil Satish AMRUTKAR BHAVANA SHAMRAO Chaurasiya Aayushi Rajesh THAKARE ANIKET SATISH Chaudhari priyanka ravindra Borse yadnyesh Satish Deore Dhanashri Rajendra Patil kavita sardar VISAWE AMRUTA RATILAL	Investment adviser Exit survey Canteen stored department "COVID-19 Real Time Counter, World Map Android App" Online Exam Online Cab Booking Restaurant Management System Bakery shop Hostel management system Mobile Exchanges Rental House System Online Library System Mobile shop management system Air reservation Gym management system Flight Fare Prediction Hardware service centre Bangaluru House Price Prediction computer lab maintenance The smart restaurant system Pharmacy management System Question pepar Generator Shop Billing System	JET'S Z. B. Patil College, Dhule	One Year	https://apps.nmu.ac.in/syllab/Science%20and%20Technology/Science/2021-Y/Science/2021-22%20M.Sc.%20Information%20technology%20(CBCS%20Pattern).pdf

Head

Department of Comp. Sci. & I.T.
Zulal Bhilajirao Patil College
Shikshannaharshi Nanasahab
Z. B. Patil Marg, Deopur,
Dhule - 424 002.



PRINCIPAL,

Jai Hind Educational Trust's
Zulal Bhilajirao Patil College
Shikshannaharshi
Nanasahab Z. B. Patil Marg,
Deopur, DHULE - 424002.

Information about Projects of Department of Chemistry, JET'S Z. B. Patil College, Dhule

Programe name	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship	Project/Field Work Title	Place	Duration	Link to the relevant document
M.Sc. Organic Chemistry Short Research Project	CH-O-4	2022-23	Khairnar Rahul Bhagwan	Synthesis of Phenyl Hydrazine Derivative by Using Citric Acid Schiff Base	JET'S Z.B.Patil College, Dhule Department of Chemistry	One Year	https://nmu.ac.in/Student-Corner/Academics/Syllabi
			Wagh Pratiksha Vijay	Synthesis of Phenyl Hydrazine Derivative by Using Citric Acid Schiff Base			
			Patil Vrushali Rohidas	Synthesis of Phenyl Hydrazine Derivative by Using Citric Acid Schiff Base			
			Gawale Monika Chhagan	Synthesis of Phenyl Hydrazine Derivative by Using Citric Acid Schiff Base			
			Yelis Rushikesh Pravin	Synthesis of Pyranopyrazole using Choline Hydroxide as a Green Catalyst			
			Shinde Ashwini Ravindra	Synthesis of Pyranopyrazole using Choline Hydroxide as a Green Catalyst			
			Patil Sarika Purushottam	Synthesis of Pyranopyrazole using Choline Hydroxide as a Green Catalyst			
			Girase Dhiraj Premsing	Synthesis of Pyranopyrazole using Choline Hydroxide as a Green Catalyst			
			Mali Bhushan Rajendra	Synthesis of Isoniazide Derivative by Using Citric Acid			
			Pandit Rutuja Jagdish	Synthesis of Isoniazide Derivative by Using Citric Acid			



Program e name	Cours e code	Year of offerin g	Name of the student studied course on experiential learning through project work/field work/internshi p	Project/Field Work Title	Place	Duratio n	Link to the relevant document
M.Sc. Organic Chemistr y Short Research Project	CH-O- 4	2022- 23	Sudake Tejas Chandrakant	Synthesis of Isoniazide Derivative by Using Citric Acid	JET'S Z.B.Patil College, Dhule Departme nt of Chemistry	One Year	https://nmu.ac.in/Student-Corner/Academics/Syllabi
			Baviskar Pratiksha Ravindra	Synthesis of Isoniazide Derivative by Using Citric Acid			
			Manikhedkar Jayesh Bharat	Synthesis of P- chlorobenzaldehyde semicarbazone Schiff base and its some metal complexes.			
			Jain Siddhi Sunil	Synthesis of P- chlorobenzaldehyde semicarbazone Schiff base and its some metal complexes			
			Suryawanshi Laxmi Sahebrao	Copper (Cu) Complexes of Schiff Bases Derived From Benzaldehyde with aniline and its derivatives.			
			Mahajan Sachin Subhash	Study of Co(II), Ni(II), Cu(II), Zn(II) Metal Complexes of Schiff Base Derived From Isoniazid With Nitrobenzaldehyde			
			Ahire Dipali Jaywant	Study of Co (II), Cu (II), Ni (II), Zn (II) Metal Complex of Schiff Base Derived from Isoniazide with 4-choloro benzaldehyde.			
			Patil Dipali Nana	Study of Cu(II), Co(II), Ni(II), Zn(II) Complexes Of Schiff Base derived from Isoniazid with Salicylaldehyde			
			Chaudhari Ruchita Prakash	Synthesis Salicylaldehyde semicarbazone Schiff base and its some metal complexes			




Program e name	Cours e code	Year of offerin g	Name of the student studied course on experiential learning through project work/field work/internshi p	Project/Field Work Title	Place	Duratio n	Link to the relevant document
M.Sc. Organic Chemistr y Short Research Project	CH-O- 4	2022- 23	Rajput Sakshi Sanjay	Cobalt (Co) Complex of Schiff Bases Derived From Benzaldehyde with aniline and its derivatives	JET'S Z.B.Patil College, Dhule Departme nt of Chemistry	One Year	https://nmu.ac.in/Student-Corner/Academics/Syllabi
			Patil Vaibhav Rajendra	Study of Cu(II), Co(II), Ni(II), Zn(II) Complexes Of Schiff Base derived from Isoniazid with Hydroxybenzaldehy de			
			Mali Shashank Rajubhai	Zinc (Zn)-Complex of Schiff Bases Derived From Benzaldehyde with aniline and its derivatives			
			Bhavsar Gopal Padamakar	Nickel (Ni) Complex of Schiff Bases Derived From Benzaldehyde with aniline and its derivatives			
			Prajapati Hitesh Anil	Synthesis of Benzaldehyde Semicarbazone Schiff, base and its some metal Complex			
			Durgeshwari Bhimraj Jagdale.	MgCl ₂ Catalysed Knoevenagel Synthesis			
			Gawali Gotu Sanjay	MgCl ₂ Catalysed Knoevenagel Synthesis			
			Ahhirao Yash Sachin	MgCl ₂ Catalysed Knoevenagel Synthesis			
			Vasave Rohini Irma	MgCl ₂ Catalysed Knoevenagel Synthesis			
			More Ashwin Khanderao	Application of triethyl Amine in Knoevenagel Condensation			



Program e name	Cours e code	Year of offerin g	Name of the student studied course on experiential learning through project work/field work/internshi p	Project/Field Work Title	Place	Duratio n	Link to the relevant document
M.Sc. Organic Chemistr y Short Research Project	CH-O- 4	2022- 23	Patil Vishal Lalit	Application of triethyl Amine in Knoevenagel Condensation	JET'S Z.B.Patil College, Dhule Departme nt of Chemistry	One Year	https://nmu.ac.in/Student- Corner/Academics/Syllabi
			Suryawanshi Pooja Chhotu	Application of triethyl Amine in Knoevenagel Condensation			
			Sonar Mayuri Chandrakant	Application of triethyl Amine in Knoevenagel Condensation			
			Patil Chetna Bhupendra	Acid catalyst (HCl) Multicomponent synthesis.			
			Raut Sagar Bulcahan	Acid catalyst (HCl) Multicomponent synthesis.			
			Dahite Saloni Sachin	Acid catalyst (HCl) Multicomponent synthesis.			
			Kothawade Priyanka Vijay	Acid catalyst (HCl) Multicomponent synthesis.			


Head
 Department of Chemistry
 Zulai Bhilajirao Patil College
 Shikshanmaharshi
 Nanasahab Z.B.Patil Marg.
 Deopur, DHULE- 424 002




PRINCIPAL
 Jai Hind Educational Trust
 Zulai Bhilajirao Patil College
 Shikshanmaharshi
 Nanasahab Z.B.Patil Marg
 Deopur, DHULE- 424002



Estd. 1982

JAI HIND EDUCATIONAL TRUST'S

**ZULAL BHILAJIRAO PATIL COLLEGE, DEOPUR, DHULE
424002 (MS) INDIA**

Criterion- I Currucular Aspects

1.3 Curriculum Enrichment

1.3.2. Students undertaking Project work/
Field work / Internships/ Survey

Academic Year (2022-2023)

INDEX OF DOCUMENTS

Sr. No.	Document name
2	Project work completion certificate from the organization




Principal

(Dr. P.H. Pawar)
PRINCIPAL

Jai Hind Educational Trust's
Zulal Bhilajirao Patil College,
Shikshanmaharshi Nanasaheb
Z.B Patil Marg, Deopur, DHULE-2

R1
ACADEMIC YEAR 2022-2023



**ZULAL BHILAJIRAO PATIL COMMERCE
AND MANAGEMENT COLLEGE DEOPUR
DHULE.**

**A FIELDWORK REPORT ON
“ ONLINE MOBILE SHOP ”**

Under the Guidance of
Prof. Rupali Chavhan

SUBMITTED BY
Mr. Vaibhav Prabhakar Patil
&
Mr. Kundan Ashok Patil
(TYBCA)

SUBMITTED TO
NORTH MAHARASHTRA UNIVERSITY


R1


For partial fulfillment of the degree of
Bachelor of Computer Application
JET'S ZULAL BHILAJIRAO PATIL
COLLEGE DEOPUR DHULE – 424002.



CERTIFICATE

This to certify **Kundan Patil & Vaibhav Patil** that the project titled **“ONLINE MOBILE SHOP”** Developed at Zulal Bhilajirao Patil College, Dhule. In partial fulfillment of award of the degree Bachelor of Computer Application in Original work carried out under my guidance & to the best of my knowledge & belief has not been submitted by elsewhere before.


Prof. R. P. Chavhan
(Guided By)


(Head Of Department)
Department of Commerce & Mat.
Zulal Bhilajirao Patil College
Shikshanmaharshi Nanasaheb
Z. B. Patil Marg, Deopur, Dhule - 424002


External Examiner1


External Examiner2

Place :- Dhule

Date :- 3/12/2022

ONLINE MOBAIL SHOP

ORGANISATION CERTIFICATE

This is to certify that MR.VAIBHAV PATIL & KUNDAN PATIL the student of TYBCA has completed her assigned project in "ONLINE MOBAIL SHOP".

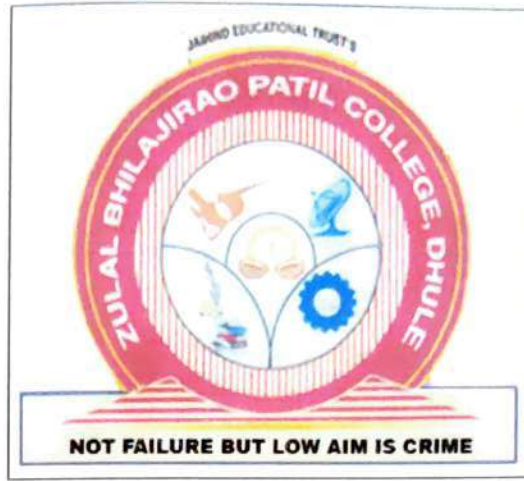
He has developed the software as per our requirement. He has taken all necessary information and guidance from me for his project. He has made very sincere efforts in developing the system. He has been diligent hard working

I wish his all the best and success in future career

Date: 29/11/2022.

SAMAR MOBILE


Proprietor
STAMP



JET'S ZULAL BHILAJIRAO PATIL COLLEGE, DHULE

A
Fieldwork Report
On
Online Bookshop

Guided By
Prof. Rupali Chavan
Submitted by

Miss. Nandinee Santosh Sonawane

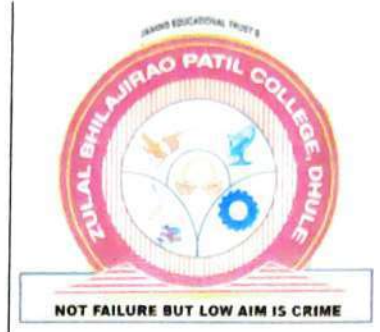
(BCA)

Submitted To

**KAVAYITRI BAHINABAI CHAUDHARI
NORTH MAHARASHTRA UNIVERSITY, JALGAON**

For partial fulfillment of the degree of
Bachelor of Computer Application
2022 - 2023

ZULAL BHILAJIRAO PATIL COLLEGE, DHULE
DEPARTMENT OF COMMERCE AND MANAGEMENT




Certificate

This is to certify that the field work entitled "Online Bookshop" has been carried out by **Nandinee Santosh Sonawane** under my guidance in partial fulfillment of the degree of Bachelor of Computer Application of Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon during the academic year 2022-2023. To the best of my knowledge and belief this work has not been submitted else where for the award of any other degree.


Prof. Rupali Chavan.
Guided By


HEAD,
Department of Commerce & Mgt
Zulal Bhilajirao Patil College
Shikshanmaharshi Marathi Mahavidyalaya
Z. B. Patil Marg, Deopur, Dhule - 2


Internal Examiner


External Examiner

Organization Certificate

This is to certify that **Miss Sandhya Kumar** **Management** student of
TYBA
has completed this field work on

Online Bookshop

She has taken all necessary information and guidance of our organization for this field work. She has made very sincere efforts in developing the project. She has been diligent hard working.

I wish her all the best and success in future career.

Date: _____

Signature


Management Dept
Unit No. 1, 2nd Floor, B
Vivekananda Institute

07/2022

Jai Hind Educational Trust's
Zulal Bhilajirao Patil College, Dhule
Department Of Commerce & Management



A Project Report On

RENTAL HOUSE
MANAGEMENT SYSTEM

For

Under Guidance of

Prof. Sameer Shah

Submitted By

Mr. Patil Mahesh Kailas

In Partial Fulfillment Of The Degree Of

B.C.A. (Bachelor of Computer Application)

AT

KAVAYITRI BAHINABAI CHAUDHARI

NORTH MAHARASHTRA UNIVERSITY, JALGAON (Year :2022-23)

JAIHIND EDUCATIONAL TRUST'S

ZULAL BHILAJIRAO PATIL COLLEGE, DHULE

Jai Hind Educational Trust's
Zulal Bhilajirao Patil College, Dhule
Department Of Commerce & Management



Certificate

This Is To Certify That **Mr. Patil Mahesh Kailas** Have Successfully Completed The Project Entire "*Rental House Management System*". He Was Submitted The Report In The Partial Fulfillment Of The Degree In B.C.A. (Bachelor Of Computer Application) In Academic Year 2022-23.

(Prof. )
Guide


Examiner

Date: 16/05/2022

(Mr. )
HEAD,

Department of Commerce & Mgt.
Zulal Bhilajirao Patil College,
Shikshanmanershi Nanasheh
Z. B. Patil Marg, Devgar, Dist-2

Examiner





JET'S ZULAL BHILAJIRAO PATIL
COLLEGE DEOPUR, DHULE.

A

PROJECT REPORT

ON

"ONLINE JEWELLERY SHOP SYSTEM"

Guided By

Prof. Pankaj Adawadkar Sir

Submitted By

Ms. Gayatri Vijay Nikwade (BCA)

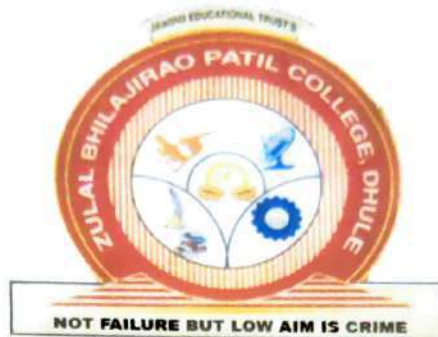
Submitted To

KAVAYITRI BAHINABAI CHAUDHARI NORTH
MAHARASHTRA UNIVERSITY, JALGAON

For partial fulfillment of the degree of

Bachelor of Computer Application

IET'S ZULAL BHILAJIRAO PATIL COLLEGE DEOPUR,
DHULE.




CERTIFICATE

This is to certify that the project titled **“Online Jewellery Shop System”** Developed at Jet's Zulal Bhilajirao Patil College, Dhule. In partial fulfillment of award of the degree **Bachelor of Computer Application** in original work carried out under my guidance & to the best of my knowledge & belief has not been submitted by elsewhere before.


Prof. Pankaj Adawadkar Sir

Guided By


Internal Examiner


(Head of Department)
Department of Computer Science & Mgt.
Zulal Bhilajirao Patil College,
Shikshak Samiti, Shiksha Sahab
Z. B. Patil Marg, Deopur, Dhule - 2.


External Examiner

CERTIFICATE

This is certify that **Ms. Gayatri Vijay Nikwade** Student of TYBCA
JET's Z. B. Patil College of Commerce & Management, Dhule, has
done this Project on

"ONLINE JEWELLERY SHOP SYSTEM"

This project is implemented at our organization and helpful to
us for our daily transactions. We found her sincere, punctual and
hardworking during completion of this project work. We wish for her
bright and successful future.

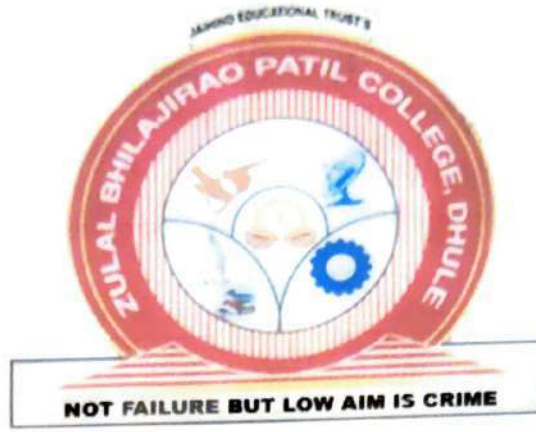
Place: - Dhule

Date: 16/5/2022

Dhulehan's

DIVYA JEWELLERS
1737, SARAF BAZAR, DHULE
LL-233916 M-7507232916

दिलीप कुचेरीया
Seal and Stamp



Jai hind Educational Trust's

Zulal Bhilajirao patil college Dhule

A

PROJECT REPORT

ON

FINANCIAL PRODUCT AND SERVICES OF HDFC BANK

Guided By

Prof.Manish Talware

SUBMITTED BY

MR Lukesh balu Gawali

(BBA)

Submitted to

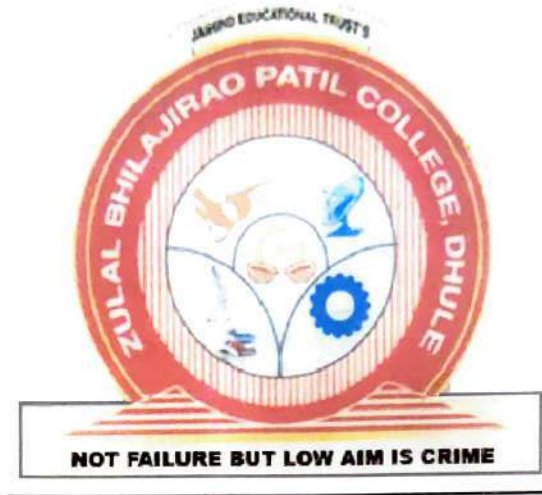
Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon

University in Jalgaon, Maharashtra

FOR PARTIAL FULFILLMENT OF THE DEGREE OF

BACHELOR OF BUSINESS ADMINISTRATION

Kavayitri Bahinabai Chaudhari North Maharashtra University ,Jalgaon



CERTIFICATE

This is certify that the project tital **PRODUCT AND SERVICES OF**
HDFC BANK Developed at ZULAL BHILAJIRAO PATIL COLLEGE DHULE

.In partial fulfillment of award of degree Bachelor of Business Administration in original work carried out under my guidance & to the best of my knowledge & belief has not been submitted by else where before

Prof. Manish Talware

Guided by

Internal Examiner

Prof . Pankaj Adawadkar

Department of Commerce & Mgt.
Zulal Bhilajirao Patil College,
(Head of Department)
Shikshanmaharshi Nanasahab
Z. B. Patil Marg, Deopur, Dhule - 2.

Internal Examiner

CERTIFICATE

This is the certify that MR .LUKESH BALU GAWALI .

Student of T.Y.BBA Zulal Bhilajirao Patil College Dhule has done this project on

FINANCIAL PRODUCT AND SERVICE OF HDFC BANK

For

SATISH GRUH UDYOG CHOCOLATE COMPANY

This project is implemented at our organization and helpful to us for our daily banking related work . We found he was doing all the banking work for the factory he was, punctual and hardworking during completion of this project work. We wish for him bright and successful future.

ACCOUNT MANAGER



Satish Gruha Udyog

PLACE - DHULE



Jai hind Educational Trust's

Zulal Bhilajirao Patil Collage, Dhule

A

PROJECT REPORT

Business strategy in beverages firm

FOR

Taqwa agency Dhule

Guided By

prof.Manish Talware

Submitted By

Junaid beg zakir beg

Submitted To

KAVAYITRI BHAHINABAI CHAUDHARI NORTH

MAHARASHTRA UNIVERSITY, JALGAON

1

FOR PARTIAL FUFILLMENT OF DEGREE OF

Bachelor of Business Administration

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon



CERTIFICATE

This is to certify that the project title "**BUSINESS STARAGY IN BEVERAGES FIRM**

Developed at **ZULAL BHILAJIRAO PATIL COLLEGE** .in partial fulfilment of

award of the degree Bachelor of business in original work carried out under my guidance & to the best to my knowledge & belief has not been submitted by else where before.

Prof. MANISH TALWARE

Guided By

Intenal Examiner

Prof. PANKAJ ADAWADKAR
HEAD
Department of Commerce & Mgt.
Zulal Bhilajirao Patil College.
(Head of Department)
Nanasaheb
Z. B. Patil Marg, Deopur, Dmule-2.

CERTIFICATE

This is certify that **MR.junaid beg Zakir beg** . Student Of T.Y.B.D.A

Zulal Bhilajirao Patil College' has done this Project on

Business strategy in beverages firm

FOR

'taqwa agancy dhule

This project is implemented at our organization and helpful to us for our daily transactions. We found he since, punctual and hardworking during completion of this project work. We wish for him bright and successful future.

OWNER

Tausif beg

Dhule

Taqwa Agency



Proprietor

Jaihind Educational Trust's
ZULAL BHILAJIRAO PATIL COLLEGE, DHULE



A REPORT ON

**Vertical Electrical Sounding Survey Using Wenner
and Schlumberger Methods.**

Submitted for the degree course of

BACHELOR OF SCIENCE IN GEOLOGY

Under the Guidance of

Ms. Arati Baride

(Head of the Department)

Dr. S. P. Gaikwad

(Assistant Professor)

Mr. S. N. Salunkhe

(Assistant Professor)

Dr. J. B. Patil

(Assistant Professor)

Sem-VI
TM 2022-23

**DEPARTMENT OF GEOLOGY,
ZULAL BHILAJIRAO PATIL COLLEGE,
DHULE (2022-2023)**

CERTIFICATE

This is to certify that all students of T.Y.B.Sc have satisfactorily completed Geological field tour at Borvahir, Taluka Dhule, District Dhule for Vertical Electrical Sounding Survey using Wenner and Schlumberger methods and written complete report as a part fulfillment of syllabus of T.Y.B.Sc. for the course GEOL 609: Practical related to GEOL 603, GEOL 604 and Field Geology (Mineral and Fuel Resources and Geomorphology, Geotechnics and Field Geology) in the academic year 2022-2023.

Head
Department of Geology
Zulal Bhilajirao Patil College,
Ms. Arati Baride
Nanasaheb Z.B. Patil Marg
Deonur, DHULE-424 002

S.P. Gaikwad
03/04/2023
Dr. S.P. Gaikwad

J.B. Patil
03/04/23
Dr. J.B. Patil

S.N. Salunkhe
03/04/2023
Mr. S.N. Salunkhe

External Examiner

Acknowledgement

We are grateful to Hon'ble Principal Dr. P. H. Pawar, JET's Z. B. Patil College, Dhule for granting permission to field work. We would like to express special gratitude to Ms. Arati Baride, Head, Department of Geology, Z. B. Patil College, Dhule and field guides Dr. M.V. Baride, Dr. S.P. Gaikwad, Mr. S.N. Salunkhe, Dr. J.B. Patil for their guidance and constant support for carrying out field work.

We are obliged by the help of people who have willingly helped me out with their abilities.

We would also like to thank the non-teaching staff Mr. B.P. Patil for his contribution.

Last but not least, thanks to our parents for whole hearted support.

Department of Geology
Z.B. Patil College, Deopur, Dhule

Department of Geology

Zulal Bhilajirao Patil College, Dhule

T.Y.B.Sc. Field Attendance Record

23/01/2023

Vertical Electrical Sounding Survey Using Wenner and Schlumberger Methods

Sr. No.	Name of the Student	Signature
1	Isha Yuvraj Aade	Isha I was absent
2	Shraddha Bhaskar Bhadane	Shraddha
3	Khushi Anil Chaudhari	Khushi
4	Bhavesh Rajesh Marathe	Bhavesh
5	Tejshri Rakesh More	Tejshri I was absent
6	Sanjana Dattatray Neel	Sanjana I was absent
7	Nisha Unmesh Palodkar	Nisha
8	Aditi Rajesh Patil	Aditi
9	Harshala Kishor Patil	Harshala
10	Pooja Murlidhar Patil	Pooja
11	Nikita Banshbahal Yadav	I was absent

Ms. Arati Baride

Dr. S.P. Gaikwad

Dr. J.B. Patil

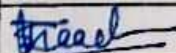
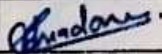

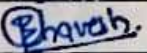
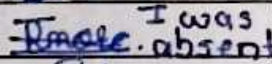

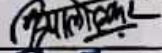
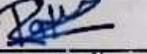
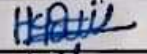

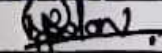
Mr. S.N. Salunkhe

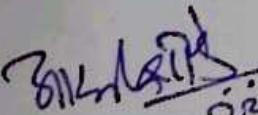
External Examiner

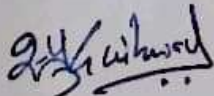
Department of Geology
Zulal Bhilajirao Patil College, Dhule

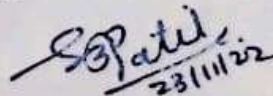
T.Y.B.Sc. Field Attendance Record

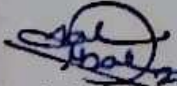
Geological study of Panzara river, Ner, Taluka and District: Dhule,
Akkalpada dam, Taluka: Sakri, District: Dhule,
Kalambhir and Raipur Dykes, Taluka: Sakri, District: Dhule and
Grassland at Lamkani, Tal. and Dist: Dhule.

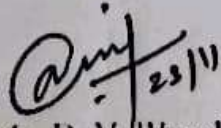
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9	Harshala Kishor Patil	
10	Pooja Murlidhar Patil	
11	Nikita Banshbahal Yadav	


23.11.22
Ms. Arati Baride


Dr. S. P. Gaikwad


23/11/22
Dr. J. B. Patil


23.11.2022
Mr. S. N. Salunkhe


23/11
Mr. D. V. Woyal

External Examiner

Microbial Fuel Cell (MFC)

A dissertation submitted to
K.B.C. North Maharashtra University, Jalgaon



ZULAL BHILAJIRAO PATIL COLLEGE, DHULE

In partial fulfilment for the
Degree of

Master of Sciences in Microbiology
(2022-2023)

Project Guide

Prof. Sarojini R. Deshmukh

Submitted by

Mr. Dnyanesh V. Khairnar

Department of Microbiology

Z.B. PATIL COLLEGE, DHULE

Microbial Fuel Cell (MFC)

A dissertation submitted to

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ZULAL BHILAJIRAO PATIL COLLEGE, DHULE

**In partial fulfilment for the Degree of
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(2022-2023)**

Project Guide

Prof. Sarojini R. Deshmukh

Submitted by

Mr. Dnyanesh V. Khairnar

DEPARTMENT OF MICROBIOLOGY

Z.B. PATIL COLLEGE, DHULE

Declaration

We hereby declare that the research work incorporated in this dissertation entitled "*Microbial Fuel Cell*" submitted for the Degree of Master of Science in Microbiology is the record of research work carried out by us under the guidance of **Prof. Sarojini R. Deshmukh** at the Department of Microbiology, Z.B. Patil College, Dhule. Materials obtained from other sources have been duly acknowledged in the dissertation.

Mr. Dnyanesh V. Khairnar

Mr. Nikhil S. Patil

Miss. Bhargavi P. Bhanage

Miss. Bhagyashree S. Desale

Miss. Shital V. Antapurkar

Miss. Jyoti D. Bedse

Miss. Rutuja B. Dashpute

Place : Dhule

Date :

K.B.C. North Maharashtra University, Jalgaon
ZULAL BHILAJIRAO PATIL COLLEGE, DHULE

DEPARTMENT OF MICROBIOLOGY



CERTIFICATE

This is to certify that **Mr. Dnyanesh V. Khairnar** of M.Sc. II (Microbiology) satisfactorily completed the project entitled "**Microbial Fuel Cell**" in the laboratory course – II (MB-405 : Project Dissertation) during 2022-2023.

Dr. P.H. Pawar

(Principal)

Dr. R.D. Shelar

Dr. R.D. Shelar

(Head of Dept.)

DEPARTMENT OF MICROBIOLOGY

Zulal Bhilajirao Patil College,
Shikshanmaharshi Nanasaheb
Z.B.Patil Marg, Deopur, Dhule- 424002

Sarjini
Prof. 5.6.23

Sarjini Deshmukh

(Guide)

Sarjini
7/6/23
Internal Examiner

Patil

External Examiner

JAI HIND EDUCATIONAL TRUST'S
ZULAL BHILAJIRAO PATIL COLLEGE, DHULE



PROJECT REPORT ON
"STUDY OF GREEN HYDROGEN"

SUBMITTED BY
MISS. JAYASHRI SHIVAJI DEORE


GUIDED BY
PROF. PANKAJ K. PATIL
DEPARTMENT OF PHYSICS


SUBMITTED TO
KAVAYITRI BAHINABAI CHAUDHARY
NORTH MAHARASHTRA UNIVERSITY, JALGAON
YEAR 2022-23


CERTIFICATE

This is to certify that, “Miss Jayashri Shivaji Deore” has satisfactorily completed the project report entitled “STUDY OF GREEN HYDROGEN” during the academic year 2022-2023.

She has submitted this project in this fulfillment for the award of bachelor degree of science (Physics) under the KBC North Maharashtra University, Jalgaon.


PROF. PANKAJ K. PATIL
Project guide


DR. H.S. GAVALE
Head, Dept of Physics


Internal Examiner


External Examiner

Department of Statistics – B. Sc. Project Information

Academic Year: - 2022-23

Group No.	Name of students	Name of the Project	Name of the Guide
1.	More Piyush Jogi Anushka Chetan Vijay	The impact of Internet usage on students	Prof. G.T.Pedram
2.	Patil Jayesh Patil Siddhant Bagul Kalyani Khatik Shirin	A study on online payment apps among Z B Patil college students	Prof. P. U. Patil
3.	Patil Sushil Deore Girish Shelar Pallavi	Personality traits of NCC and non NCC of third year students of Z B Patil College .	Prof. P. U. Patil
4.	Kalal Maheshkumar Mali Nikita Nerkar Varsha Patil Snehal	A Statistical analysys of upcoming lok sabha election 2024	Prof. G.T.Pedram
5	Wagh Nikhil Dusing Vedant Patil Vishvaja Gangurde Shejal Pawar Prachi	A Statistical analysis of the old age homes of urban vs. rural vs. semi – rural .	Dr. N.S. Chavan



N. S. Chavan
Head
Department of Statistics
Zula Bhilajirao Patil College
Shri Chhannamaharshi Nanasaheb
Z. B. Patil Marg, Deopur,
Dhule - 424 002.

Department of Statistics – M. Sc. Project Information

Academic Year: - 2022 -23

Group No.	Name of students	Name of the Project	Name of the Guide
1.	Desale Gayatri	Linear Discriminant Analysis	Prof. P. N. Desale
2.	More Gautami	Econometrics	
3.	Kote Dnyaneshwar	Indian Statistical Institute	Prof. P. R. Ruikar
4.	Patil Ajay	Statistical Package for Social Sciences	Prof. P. R. Ruikar
5.	Desale Saniya	Statisticians & their Contributions	Prof. P. R. Ruikar
6.	Patil Pratiksha	International Statistical Institute	Prof. P. R. Ruikar



(Signature)

Head
Department of Statistics
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Shikshanamaharshi Nanasaheb
Z.B. Patil Marg, Deopur,
Dhule - 424 002.

Name :- Bhamare Harshada Dnyaneshwar
Class :- GyBSc
Roll No:

Seat.No-344053

JET's
ZULAL BHILAJIRAO PATIL
COLLEGE, DHULE

DEPARTMENT OF
GEOGRAPHY LAMKANIVILLAGE

VILLAGESURVEYREPORT

SUBMITTED TO
K.B.C.NORTH MAHARASHTRA
UNIVERSITY, JALGAON

FOR
S.Y.B.Sc GEOGRAPHY
PRACTICALEXAMINATION APRIL-
2023

Introduction –

This survey is focused on the success story of the village Lamkani, located in Dhule district of Maharashtra, India. The village was known for its grasslands and was rich in fodder, but due to the droughts in the 1970s and 1990s, the village became barren. However, the village restored its grasslands through watershed management and traditional practices of 'charaibandhi' and 'kurhadbandhi,' which have resulted in restoring over 400 hectares of grasslands. The paper highlights the success story of the village and the economic benefits achieved due to the restoration of the grasslands, which led to water sufficiency and reduced distress migration. The paper also highlights the approach taken by the villagers to achieve the restoration and conservation of the grasslands and how it can be replicated in other areas facing similar challenges.

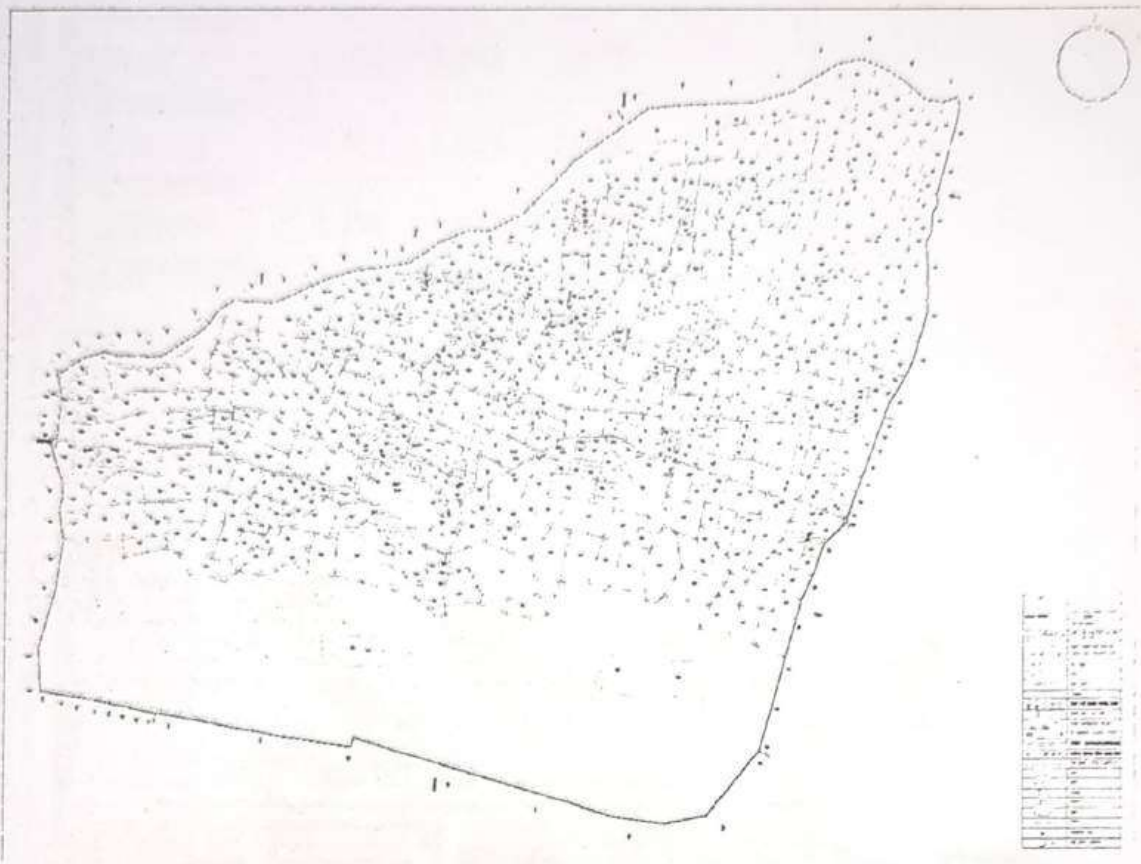
Aim and Objective –

The aim and objective of this was to build a water foundation on a barren land and bring it into use and Lamkani village and help them with the water problems.

Village Study-

According to Census 2011 information the location code or village code of Lamkanivillage is 526465. Lamkani village is located in Dhule tehsil of Dhule district in Maharashtra, India. It is situated 42km away from sub-district headquarter Dhule(tehsildar office) and 42km away from district headquarter Dhule. As per 2009 stats,Lamkanivillage is also agrampanchayat.

Totalgeographicalareaofvillageis2529.42hectares.Lamkanihasatotalpopulationof 6,981 peoples, out of which male population is 3,649 while female population is3,332. Literacy rate of lamkani village is 67.08% out of which 72.18% males and61.49% females are literate. There are about 1,399 houses in lamkani village. Dhuleis nearest town to lamkani for all major economic activities, which is approximately42km away.



VillageMap of Lamkani-

Population of Lamkani Particulars	Total	Male	Female
Total Population	6,981	3,649	3,332
Literate Population	4,683	2,634	2,049
Illiterate Population	2,298	1,015	1,283



Lamkani, Maharashtra, India
 3HHC+PJ, Lamkani, Maharashtra 424307, India
 Lat 21.080729°
 Long 74.569948°
 01/03/23 12:28 PM

Connectivity of Lamkani

Public Bus Service Available within village
 Private Bus Service Available within 10+ km
 distance
 Railway Station Available within 10+ km distance

Nearby Villages of Lamkani-

Behed, Rami, Boris, Bamburle, PrNer, Wadne, Burzad

Settlement Pattern

Population of Lamkani Data-

Particulars	Total	Male	Female
Total No. Of Houses	1399	--	--
Population	6981	4649	3332
Child(0-6)	857	480	377
Schedule caste	380	191	189
Schedule Tribe	1171	645	526
Literacy	76.47%	83.12%	69.34%
Total workers	3268	1988	1280
Main worker	3088	--	--
Marginal worker	180	107	73

Lamkani, a village 40 kilometres from Dhule, was known for its grasslands and for being fodder-rich in the pre-independence era. The situation changed after the drought in the 1970s, and the lush green village became completely barren after enduring drought years again in the 1990s.

• Lamkani has restored its grasslands through watershed management and a return to the traditional practices of 'charaibandhi' (ban on grazing) and 'kurhadbandhi' (ban on felling trees), managing to restore over 400 hectares of grasslands over its now-famous Govardhan hillock, from where all of Lamkani's streams originate. Dhananjay Newadkar, a pathologist by profession who hails from Lamkani, initiated the efforts. After suffering a near-fatal accident that left him bedridden, Newadkar decided that if he survived the accident, he would attempt to solve his native village's severe water crisis.

"Twenty years ago, village did not have 10 litres of milk available in Lamkani village in Dhule district. Today, Lamkani sells about 3,000 litres of milk to Dhule every day," boasts Dhananjay Newadkar, who, in 2000, initiated a watershed development programme to solve the water scarcity problems of people of his village. But after studying the topography of Lamkani, Newadkar realised that watershed development alone will not work to help Lamkani's residents solve their water troubles and he decided to adopt the traditional practice of 'charaibandhi', (ban on felling trees) to conserve the grassland on the hillock. Newadkar also approached all the folk artists of Maharashtra

(tamasha) and kirtankars that performed in Lamkani and ask them to incorporate information about protecting and conserving the hillock in their performances. The participation of the people in watershed development as well as protecting the hillock increased.

Lamkani's success in restoring the grassland was achieved through rotational grazing, which means that every year a 50 hectare patch of the grassland would be conserved at a time, not allowing grazing on that patch, which allowed the palatable species of grasses to regenerate.

Drought resilience and economic benefits-

After four or five rainfall cycles since Newadkar started his watershed development and grassland conservation project, Lamkani went from being completely tanker-dependent to water-sufficient even during drought years. The water is 10-15 feet in the wells. Now there is no water shortage problem despite being located in a drought-prone region. Newadkar also shared how the restored grassland helped Lamkani endure the changing rainfall patterns. Earlier, the quantum of rainfall was not high, but it would rain for much longer. Now, the intensity of rainfall has increased so much that it rains very heavily, causing a lot of soil erosion and not giving any time for the water to percolate into the soil. But grasses make the soil spongy, helping us reduce the soil runoff and harvest all the rainwater right there in Lamkani.

Within the first ten years, distress migration reduced considerably, as everyone had access to water for irrigation. Onions, Cotton, wheat, bajri, jowar, and fruits are grown here, some farmers have started cultivating a third crop. The initial watershed management in Lamkani was done using the Maharashtra Employment Guarantee Scheme and later NREGA, generating employment for the villagers. Later, Watershed Organisation Trust (WOTR) donated Rs. 15 lakh for the watershed development to the joint Forest Management Committee of the village, to which the villagers of Lamkani added Rs. 65,000 to start the CCT digging project. Lamkani also participated in Paani Foundation's Water Cup in 2018 and 2019. Grasslands have historically been associated with forest fires and in Lamkani too, forest fires are an uncommon occurrence. The young people of Lamkani have formed a WhatsApp group where news of forest fires is shared and help is arranged to control the fires.

"Despite the challenges, community-protected grasslands have a much higher rate of success as in these cases environmental protection is tied to the livelihood of the people."



Conclusion --

The data and information presented suggest that Lamkani, a village in Dhule district, Maharashtra, has successfully restored its grasslands through watershed management and traditional conservation practices. This has helped the village become drought resilient and water-sufficient even during drought years. The restored grasslands have also helped the village endure changing rainfall patterns and reduced soil erosion. The economic benefits of the project have been significant, with distress migration reducing considerably, and the villagers growing various crops. The success of the project is attributed to the active participation of the community and the adoption of traditional conservation practices. Overall, Lamkani's success provides an excellent example of how a community can come together to conserve the environment and achieve economic benefits.

Seat.No- 148785

जयहिंद शैक्षणिक संस्था
झुलाल भिलाजीराव पाटील महाविद्यालय, देवपूर धुळे

विभाग

भूगोल

ग्रामीण सर्वे अहवाल
(लामकनी गाव)

सादर केले

कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव

FOR

तृतीय वर्ष प्रात्यक्षिक भूगोल परीक्षा-2023

प्रस्तावना :-

हे सर्वेक्षण भारतातील महाराष्ट्रातील धुळे जिल्ह्यातील लामकानी गावाच्या यशोगाथेवर केंद्रित आहे. हे गाव गवताळ प्रदेशासाठी ओळखले जात होते आणि चाऱ्याने समृद्ध होते, परंतु 1970 आणि 1990 च्या दशकातील दुष्काळामुळे हे गाव नापीक झाले. तथापि, गावाने पाणलोट व्यवस्थापन आणि 'चरई बंधी' आणि 'कुन्हाड बांधी' या पारंपारिक पद्धतींद्वारे गवताळ प्रदेश पुनर्संचयित केला, ज्यामुळे 400 हेक्टर हून अधिक गवताळ प्रदेश पुनर्संचयित झाला आहे. गावाची यशोगाथा आणि गवताळ प्रदेश पुनर्संचयित केल्यामुळे मिळालेले आर्थिक फायदे या पेपरमध्ये प्रकाश टाकण्यात आला आहे, ज्यामुळे पाण्याची पुरेशी वाढ झाली आणि त्रासदायक स्थलांतर कमी झाले. गवताळ प्रदेशांची जीर्णोद्धार आणि संवर्धन करण्यासाठी गावकऱ्यांनी घेतलेल्या दृष्टिकोनावर आणि तत्सम आव्हानांना तोंड देत असलेल्या इतर भागात त्याची पुनरावृत्ती कशी करता येईल यावरही या पेपरमध्ये प्रकाश टाकण्यात आला आहे.

ध्येय आणि उद्दिष्ट -

नापीक जमिनीवर पाण्याचा पाया बांधून ते वापरात आणणे आणि लामकानी गावाला पाण्याच्या समस्या सोडवणे हा यामागचा उद्देश होता.

गावाचा अभ्यास :-

२०११ च्या जनगणनेनुसार लामकानी गावाचा स्थान कोड किंवा गाव कोड ५२६४६५ आहे. लामकानी हे गाव महाराष्ट्र राज्यातील धुळे जिल्ह्यातील धुळे तालुक्यात आहे. हे उपजिल्हा मुख्यालय धुळे (तहसीलदार कार्यालय) पासून 42 किमी अंतरावर आणि धुळे जिल्हा मुख्यालयापासून 42 किमी अंतरावर आहे. 2009 च्या आकडेवारीनुसार, लामकानी गाव देखील ग्रामपंचायत आहे.

गावाचे एकूण क्षेत्रफळ २५२९.४२ हेक्टर आहे. लामकानीची एकूण लोकसंख्या 6,981 लोकसंख्या आहे, त्यापैकी पुरुषांची लोकसंख्या 3,649 आहे तर महिलांची लोकसंख्या 3,332 आहे. लमकणी गावाचा साक्षरता दर ६७.०८% असून त्यापैकी ७२.१८% पुरुष आणि ६१.४९% महिला साक्षर आहेत. लमकणी गावात सुमारे 1,399 घरे आहेत. धुळे हे सर्व प्रमुख आर्थिक क्रियाकलापांसाठी लमकणीपासून सर्वात जवळचे शहर आहे, जे अंदाजे 42 किमी अंतरावर आहे. गावाचे एकूण क्षेत्रफळ २५२९.४२ हेक्टर आहे. लामकानीची एकूण लोकसंख्या 6,981 लोकसंख्या आहे, त्यापैकी पुरुषांची लोकसंख्या 3,649 आहे तर महिलांची लोकसंख्या 3,332 आहे. लमकणी गावाचा साक्षरता दर ६७.०८% असून त्यापैकी ७२.१८% पुरुष आणि ६१.४९% महिला साक्षर आहेत. लमकणी गावात सुमारे 1,399 घरे आहेत. धुळे हे सर्व प्रमुख आर्थिक क्रियाकलापांसाठी लमकणीपासून सर्वात जवळचे शहर आहे, जे अंदाजे 42 किमी अंतरावर आहे.

गवताळ प्रदेश पुनर्संचयित करण्यात लामकानीस यश रोटेशनल चराईद्वारे प्राप्त झाले, म्हणजे दरवर्षी गवताळ प्रदेशाचा 50 हेक्टर पॅच एका वेळी संरक्षित केला जाईल, त्या पॅचवर चरायला परवानगी न देता, ज्यामुळे गवतांच्या चवदार प्रजाती पुन्हा निर्माण होऊ शकल्या.

लामकानीची कनेक्टिव्हिटी :-

सार्वजनिक बससेवा गावात उपलब्ध आहे

खाजगी बस सेवा 10+ किमी अंतराच्या आत उपलब्ध आहे. रेल्वे स्टेशन 10+ किमी अंतरामध्ये उपलब्ध आहे

लामकानी जवळची गावे :-

बेहेड, रामी, बोरिस, बांबुर्ले, प्रनेर, वडणे, बुरझाड

लामकानी	
ग्रामपंचायत:	लामकानी
तहसील:	धुळे
जिल्हा:	धुळे
राज्य:	महाराष्ट्र
पिन कोड:	424307
क्षेत्र:	2529.42 हेक्टर
लोकसंख्या घरांची एकूण संख्या	6,981
घरे:	1,399
जवळचे शहर:	धुळे (42) किमी
साक्षरतेचे प्रमाण	67.08%

वस्ती प्रारूप, लोकसंख्या लामकानी गावाची आकडेवारी :-

विशेष	एकूण	पुरुष	स्त्री
घरांची एकूण संख्या	1399	--	--
घरांची एकूण संख्या	6981	4649	3332
मूल(०-६)	857	480	377
अनुसूचित जाती	380	191	189
अनुसूचित जमाती	1171	645	526
साक्षरता	76.47%	83.12%	69.34%
एकूण कामगार	3268	1988	1280
मुख्य कामगार	3088	--	--
किरकोळ कामगार	180	107	73

दुष्काळाची लवचिकता आणि आर्थिक लाभ :-

नेवाडकरांनी पाणलोट विकास आणि गवताळ संवर्धन प्रकल्प सुरु केल्यापासून चार-पाच पावसाच्या चक्रानंतर, लामकानी पूर्णपणे टॅकरवर अवलंबून राहण्यापासून ते पाण्यावर अवलंबून होते-दुष्काळाच्या काळातही पुरेसे होते. विहिरीमध्ये 10-15 फूट पाणी होते. दुष्काळी प्रदेशात असूनही पाणी टंचाईची समस्या नाही. पुनर्संचयित गवताळ प्रदेशामुळे लामकानी पावसाच्या बदलत्या पद्धतीचा सामना करण्यास कशी मदत झाली हे देखील नेवाडकर यांनी सांगितले. पूर्वी, पावसाचे प्रमाण जास्त नव्हते, परंतु जास्त काळ पाऊस पडेल. आता पावसाची तीव्रता इतकी वाढली आहे की, जोरदार पाऊस पडतो. मातीची भरपूर धूप आणि पाणी जमिनीत झिरपण्यास वेळ न देणे. परंतु गवत मातीला स्पॉन्जी बनवते, ज्यामुळे आम्हाला मातीची वाहणे कमी करण्यास मदत होते आणि सर्व पावसाचे पाणी येथेच लामकानीमध्ये साठवले जाते.

पहिल्या दहा वर्षात, त्रासदायक स्थलांतर लक्षणीयरीत्या कमी झाले. कारण प्रत्येकाला सिंचनासाठी पाणी

उपलब्ध होते, कांदे, कापूस, गहू, बाजरी, ज्वारी आणि फळे येथे पिकतात, काही शेतकरी तिसरे पीक घेण्यास सुरुवात करतात. लामकानी येथील सुरुवातीच्या पाणलोट व्यवस्थापन महाराष्ट्र रोजगार हमी योजना आणि नंतर नरेगाचा वापर करून गावकऱ्यांसाठी रोजगार निर्मिती केली. नंतर, वॉटरशेड ऑर्गनायझेशन ट्रस्ट (WOTR) ने गावाच्या संयुक्त वन व्यवस्थापन समितीला पाणलोट विकासासाठी रु. 15 लाख दान केले, ज्यामध्ये लामकानी ग्रामस्थांनी CCT खोदकाम प्रकल्प सुरू करण्यासाठी रु. 65000 जोडले. लामकानी यांनी 2018 आणि 2019 मध्ये पाणी फाउंडेशनच्या वॉटर कपमध्ये देखील भाग घेतला होता. गवताळ प्रदेश ऐतिहासिकदृष्ट्या जंगलातील आगीशी संबंधित आहे आणि लामकानीमध्ये देखील, जंगलात आग ही एक असामान्य घटना आहे. लामकानी येथील तरुणांनी एक व्हॉट्सअप ग्रुप तयार केला असून त्यामध्ये जंगलातील आगीच्या बातम्या शेअर केल्या जातात आणि आग आटोक्यात आणण्यासाठी मदतीची व्यवस्था केली जाते.

"आव्हाने असूनही, समुदाय-संरक्षित गवताळ प्रदेशांमध्ये यशाचा दर खूप जास्त आहे कारण या प्रकरणांमध्ये पर्यावरण संरक्षण लोकांच्या उपजीविकेशी जोडलेले आहे.



निष्कर्ष :-

सादर केलेल्या डेटा आणि माहितीवरून असे सूचित होते की महाराष्ट्रातील धुळे जिल्ह्यातील लामकानी या गावाने पाणलोट व्यवस्थापन आणि पारंपारिक संवर्धन पद्धतींद्वारे यशस्वीरित्या गवताळ प्रदेश पुनर्संचयित केला आहे. यामुळे दुष्काळी वर्षातही गाव टंचाई प्रतिरोधक आणि पाणीपुरते होण्यास मदत झाली आहे. पुनर्संचयित केलेल्या गवताळ प्रदेशांमुळे गावाला पावसाच्या बदलत्या पद्धती आणि मातीची धूप कमी होण्यास मदत झाली आहे. या प्रकल्पाचे आर्थिक फायदे लक्षणीय ठरले आहेत, त्रासदायक स्थलांतर लक्षणीयरीत्या कमी झाले आहे आणि गावकरी विविध पिके घेत आहेत. प्रकल्पाच्या यशाचे श्रेय समाजाच्या सक्रिय सहभागाला आणि पारंपारिक संवर्धन पद्धतींचा अवलंब करणे हे आहे. एकंदरीत, लामकानीचे यश हे एक उत्कृष्ट उदाहरण देते की पर्यावरणाचे संवर्धन करण्यासाठी आणि आर्थिक लाभ मिळवण्यासाठी समुदाय कसा एकत्र येऊ शकतो.

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JET's Zulal Bhilajirao Patil College, Dhule

Dept. of Computer Science & I.T.

M.Sc (with Credits)-Regular-June-2017 Pattern - Comp. Sci., M.Sc Part-2 , Sem-3

Academic Year :2018-2019

Sr.No.	Student Name	Project Name
1	Babar Kalyani Kiran	Online Smart Library Mobile App
2	Bhamare Snehal Diliprao	Online Matrimony Mobile App
3	Bohra Shweta Prakash	Agriculture Management System
4	Borase Leena Vijay	Analysis Of Peer To Peer File Sharing N/W Credit System For College
5	Chaudhari Pornima Sanjay	City Food Cornor Mobile App
6	Dange Pallavi Sanjay	Online Blood Bank Management System
7	Deore Varsha Yashwant	Automatic Question Paper Generator System
8	Dev Jyoti Chandrakant	Real Time Detection Of Traffic From Social Media Stream Analysis
9	Devale Ashwini Balkrishna	Online Auction Mobile Application
10	Jadhav Yogita Kishor	Java Sql Builder
11	Khairnar Bhushan Madhukar	Grampanchayat Portal Mobile App
12	Patil Bhavana Ramrao	Online Hospital Appointment Mobile App
13	Patil Chetan Dnyaneshwar	Easy Food System
14	Patil Dipika Ravindra	Secured Auditing And Deduplicating Data In Cloud
15	Patil Mayuri Rajendra	A Cocktail Approach For Travel Package Recommendation
16	Rana Monti Sanjay	E-Health Care Advisor
17	Sonawane Mayuri Sunil	Aapli City
18	Suryawanshi Rohini Vasudeo	Online Alumini Management System
19	Wagh Pallavi Vijay	Objective Examination System

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JET's Zulal Bhilajirao Patil College, Dhule

Dept. of Computer Science & I.T.

M.Sc (with Credits)-Regular-June-2017 Pattern -Computer Science , M.Sc Part-II , Sem-IV

Academic Year :2019-2020

S.N.	Student Name	Project Title
1	Amrutkar Tejaswini Eknath	Mobile Shop Management System
2	Borase Shiwam Gaman	Data Structure Tutor
3	Pramod Kashinath Chaudhari	E-Agriculture
4	Borse Ashwini Pradip	At Your Door
5	Harshada Chavan	Online Cab Booking System
6	Girase Prajakta Ravindrasing	Online Diagnostic Lab Test Booking System
7	Mohini Bansilal Khalane	Cycle Shop System
8	Panvelkar Komal Raju	Online Mess Order Project
9	Nandre Priyanka Ramesh	E-Notes Sharing
10	Mahale Dhanshree Ramdas	Tv Shows Voting Mobile App
11	Pathak Sonali Dharmendra	Enterprise Resource Planner
12	Darshana Bharat Patil	School Administration System Web Applications
13	Patil Kavita Lotan	Online Tour Booking System
14	Patil Mayur Ajay	Online Organ/Tissue Donation System
15	Nikita Bharat Patil	Online Book Shop System
16	Pawar Smital Vilas	Online Food Diet System
17	Pawar Rupali Vijaykumar	Ration Shop System
18	Rajput Manisha Bhila	Smart City Traveller
19	Solankhe Anita Mohan	E -Governance


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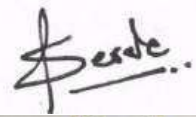
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Dept. of Computer Science & I.T.

M.Sc (with Credits)-Regular-June-2017 Pattern - Computer Science, M.Sc Part-II , Sem-IV

Academic Year : 2020-2021

S.N.	Student Name	Project Title
1	Akanksha Sanjay Sonje	Mobile Shop Management System
2	Neha Chandrakant Pawar	Online Mess Ordering System
3	Ahire Harishchandra Santosh	Helping Food Donation Mobile App
4	Chavan Pratiksha Ashok	Watch Shop Management
5	Chaudhari Bhavna Rajendra	Event Hall Management System
6	Mali Jyotsna Dhanraj	Ration Shop System
7	Agrawal Kirti Vijaykumar	Jewellery Shop System
8	Dahiwadkar Chaitali Kishor	Medical Shop System
9	Kute Sayali Prakash	Vechical Booking
10	Shinde Pooja Suresh	Petrol Pump Billing System
11	Suryawanshi Devyani Rajendra	Online Exam System
12	Neha Satish Bhadane	Milk Shop System
13	Bhure Ganesh Bhalchandra	Cracker Shop System
14	Jakatdar Jagruti Bhikan	Iot Based Traffic Control System
15	Baviskar Sachin Shivaji	Friendbook
16	Bhadane Sunil Pundlik	Blood Bank Management System



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JET's Zulal Bhilajirao Patil College, Dhule

Dept. of Computer Science & I.T.

M.Sc (with Credits)-Regular-June-2021 Pattern - Computer Science , M.Sc Part-II , Sem-IV

Academic Year :2021-2022

Sr.No.	Student Name	Project Title
1	Patil Mohini Vasant	E-Fitness Club
2	Bachhav Snehal Shashikant	Training And Placement
3	Shradha Rajendra Kankariya	Blood Group
4	Bhadane Mukul Ravindra	Bachat Gat Online System
5	Patil Chinmayee Gorakh	Online Vehicle Showroom
6	Bagul Rahul Bhivsan	Online Fertilizer Shopping
7	Sisode Mruganayani Rajendra	Gully Control
8	Babar Tejaswinee Jitendra	Discount-Scheme-Portal
9	Londhe Komal Hansraj	Grain Distribution System
10	Khairnar Trupti Sunil	Hotel Table Booking
11	Yeole Manasi Pravin	Online Unused Medicine Donation
12	Deore Lina Bhikaji	Online Courier System
13	Desale Rahul Chandan	Vehicle Workshop Maintenance System.
14	Landage Vaibhavee Devanand	Exit Survey
15	Devare Trupti Pravin	Army Canteen Stored Department
16	Dabhade Namrata Prakash	"COVID-19 Real Time Counter, World Map Android App"
17	Birari Madhavan Mangesh	Restaurant Management System
18	Shinde Jagruti Yuvraj	Bakery Shop System
19	Pawar Varsha Jagdish	Hostel Management System
20	Sonawane Nikhil Satish	Gym Management System
21	Amrutkar Bhavana Shamrao	Flight Price Prediction System
22	Thakare Aniket Satish	House Price Prediction System
23	Deore Dhanashri Rajendra	Pharmacy Management System
24	Patil Kavita Sardar	Question Paper Generator

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JET's Zulal Bhilajirao Patil College, Dhule

Dept. of Computer Science & I.T.

M.Sc (with Credits)-Regular-June-2021 Pattern - Computer Science , M.Sc Part-II , Sem-IV


Academic Year : 2022-2023

Sr.No.	Student Name	Project Title
1	Patil Roshani Ramesh	E-Library Management System
2	Pande Harshal Arun	Toy Shop System
3	Patil Kalyani Jitendra	Restaurant Management System
4	Rajput Priyanka Ramesh	Bank Management System
5	Patil Ruchita Nitin	Art Gallery Management System
6	Patil Divya Dinesh	Achieving Secured Patient Information On Cloud
7	Gangurde Khetanjali Devidas	Online Hotel Booking System
8	Wagh Chaitali Dipak	Feedback System For Product
9	Pitrubhakta Pratiksha Rajesha	Airline Reservation System
10	Patil Rajeshwari Sanjay	Online Leave Application System
11	Abhale Kajal Sanjay	Online(Smart) Note Taker
12	Mistari Megha Aba	Healththi-Fy Healthcare Application System
13	Patil Neha Sarjerao	Event Management System
14	Gosavi Ashutosh Vijay	Blood Bank Management System
15	Hulage Dnyanesh Ajinath	Watch Shop System
16	Joshi Neha Sunil	Online Jobs Portal
17	Sonawane Kiran Balu	Car Rental System
18	Patil Yash Ravindra	Lms(Library Management System)
19	Patil Vinita Sudhir	Medicine Distribution System
20	Pardeshi Akshay Ajitsing	Objective Exam System
21	Patil Rohit Nilesh	Bakery Shop System
22	Pagare Tushar R	Web Based Application For Online Shopping

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JET's Zulal Bhilajirao Patil College, Dhule
Dept. of Computer Science & I.T.
M.Sc (with Credits)-Regular-June-2017 Pattern - Info. Tech, M.Sc Part-II , Sem-3
Academic Year :2018-2019

Sr.No.	Student Name	Project Title
1	Agrawal Riya Santosh	Bus Ticket Using QR Code Mobile Application
2	Ahirrao Umesh Sanjay	Online Event Management System
3	Bhosale Vaishali Digambar	Online Gift Shop
4	Borse Shradha Hemant	Bus Tracking Mobile Application
5	Chavan Renuka Sanjay	LIC Management System
6	Hire Atul Sanjay	City Trading Mobile App
7	Joshi Manish Vijay	Employee Tools Response Mobile App
8	Karnawat Pratiksha Pramodkumar	Online House Rental Management System
9	Khairnar Rohit Rajaram	Online Vaccination System
10	Khandelwal Saurabh Mahesh	Home Appliances Control System
11	Marathe Ajinkya Shankar	VB Interface To Java Convertor
12	Marathe Ankita Rajendra	Duty Schedule Mobile App
13	Nerkar Jayshri Pradip	Online Cake Booking System
14	Patil Priyanka Shantaram	Online Photographer System
15	Patil Rita Kishor	Online Jewellery Shopping Web Application
16	Pinjari Shaikh Ajroddin Shaikh Munaf	Uptime Robo
17	Sonawane Chetana Vishwajit	Online Food Ordering System
18	Sonawane Mrunali Ravindra	Online Book Exchange System
19	Thakare Ujjwala Shantaram	Online Gas Booking Web Application



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JET's Zulal Bhilajirao Patil College, Dhule

Dept. of Computer Science & I.T.

M.Sc (with Credits)-Regular-June-2017 Pattern -Information Tech , M.Sc Part-II , Sem-IV

Academic Year :2019-2020

S.N.	NAME	Project Title
1	Bagul Neha Vijay	Online Exhibition Portal
2	Borase Mohit Jagatrao	Ration Shop Inventory System
3	Agrahari Pushpavati S.	Training And Placement System
4	Chavan Rakshanda Sanjay	Online Garment Shop
5	Gurav Lokesh Dilip	Online Chair Shop
6	Khonde Ashwini Suresh	Online Pet Shop Management System
7	Jangid Neha Satish	Online Hotel Table Booking System
8	Mali Shamali Rajan	Online Jewellery Shopping Web Application
9	Pawar Shubham Nandalal	Online Photography System
10	Nerkar Dhanashri Ramkrushna	Work Allocation Appraisal System
11	Patil Anupriya Kishor	Online Placement System Web Application
12	Sonar Archana Vikas	Farmer Interface System
13	Sagar Kailas Vispute	Online Portfolio And Blogging
14	Chavan Pallavi Bhausahab	Online Student Helpline (Alumni)


Head
Department of Comp.Sci. & I.T.
Zulal Bhilajirao Patil College
Shikshanmaharshi Nanasaheb
Z.B.Patil Marg, Deopur,
Dhule - 424 002.

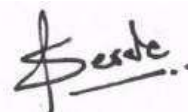
JET's Zulal Bhilajirao Patil College, Dhule

Dept. of Computer Science & I.T.

M.Sc (with Credits)-Regular-June-2017 Pattern -Information Tech, M.Sc Part-II , Sem-IV

Academic Year : 2020-2021

S.N.	Student Name	Project Title
1	More Pratik Sunil	School Management System
2	Jadhav Harshada Jitendra	Online Property System
3	Girase Archana Jaydevsing	Cycle Shop System
4	Manglani Karan Vijaykumar	Online Blood Donation
5	Punjabi Ankita Bhushan	Banking Card Issue
6	Kothawade Komal Mukund	Zero % Hunger
7	Shinde Shubham Mukundrao	Reminder Wallpaper
8	Desale Rohini Chandrakant	Pizza Management
9	Kabade Nishant Sanjay	E-Healthcare
10	Patil Saurabh Rajendra	Pizza Shop System
11	Mainkar Sneha Sanjay	Hotel Management System
12	Shukla Snehal Sanjay	Ticket Reservation System



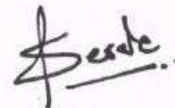
Head
Department of Comp. Sci. & I.T.
Zulal Bhilajirao Patil College
Shikshanmaharshi Nanasahab
Z.B. Patil Marg, Deapur,
Dhule - 424 002.

JET's Zulal Bhilajirao Patil College, Dhule

Dept. of Computer Science & I.T.

M.Sc (with Credits)-Regular-June-2021 Pattern - Info. Tech. , M.Sc Part-II , Sem-IV
Academic Year :2021-2022

Sr.No.	Student Name	Project Title
1	Visave Amruta Ratilal	Shop Billing System
2	Nikam Priyanka Balasaheb	Secure data exchange
3	Gangurde Vasanti Sanjay	Online books shopping system
4	Khairnar Madhuri Suresh	Online Hotel Management System
5	Shinde Manasee Mukundrao	Student Bus Pass System
6	Ahirrao Jitesh Prakash	Graphical Password (Image Based Authentication Password)
7	Jadhav Supriya Sunil	GST billing app
8	Pawar Yash Chandrakant	Online Voting System
9	Patil Sanjay Ravindra	School management System
10	Wagh Komal Digambar	E-Real Estate system
11	Kadam Neha Bhatu	E- Health Card
12	Patil Mayuri Sanjay	Investment adviser system
13	Mistari Shakuntala Sanjay	Online Exam system
14	Bagal Bhagyashri Ambarraj	Online Cab Booking system
15	Kadam Shubham Ratnakar	Online book Exchanges system
16	Salave Divya Rajendra	Online Rental House Management System
17	Lade Anjali Ramdas	Online Library System
18	Baisane Sejal Sunil	Mobile shop management system
19	Thakare Mahesh Pandit	Airline Reservation System
20	Chaurasiya Aayushi Rajesh	Hardware service centre
21	Chaudhari Priyanka Ravindra	computer lab maintenance system
22	Borse Yadnyesh Satish	The smart restaurant system



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Z.B.Patil Marg, Deopur,
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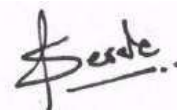
JET's Zulai Bhalajirao Patil College, Dhule

Dept. of Computer Science & I.T.

M.Sc. (with Credits)-Regular-June-2021 Pattern - Information Technology , M.Sc Part-II , Sem-IV

Academic Year : 2022-2023

Sr.No.	Student Name	Project Title
1	Pathak Hariom Arun	Online Cab Booking System
2	Patil Harshada Shivaji	Preserving Privacy On Cloud Computing Over Medical Data
3	Sonawane Shubhangi Narendra	Online Food Ordering System
4	Chaudhari Kalyani Atul	Healthcare Application
5	Jadhav Bharati Vijay	Online Source Code Editor
6	Ramkrushn Bharat Deore	Mobile shop Management System
7	Patil Devendra Madhukar	Online Cloth Shop System
8	Bahiram Ashwini Ekanath	Hospital Management System
9	Patil Nikita Ashok	Online Auction Web Application
10	Chhajed Mayuri Nitin	Online Pathology Web Application
11	Swapnil Tulshidas Bhamare	E - Commerce
12	Deore Hital Jagannath	Website Development of Restaurant Management System
13	Chaudhari Tushar Magan	Hardware Service Centre
14	Masule Ghanshyam Suresh	Computer Lab Maintenance System



Head
Department of Comp. Sci. & I.T.
Zulai Bhalajirao Patil College
Shikshanmaharshi Nanasahib
Z.B.Patil Marg, Deopur,
Dhule - 424 002.

Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon
Jai Hind Educational Trust's Zulal Bhilajirao Patil College, Dhule
Department of Chemistry

Class: M.Sc. (II) Organic Chemistry

Year: 2022-23

Name of the Teacher: Dr. V. B. Jadhav/Dr. P. S. Girase/Dr. S. A. Padvi

Subject: CH -O-4: Short Research Project (Annual)

Sr. No.	Name of the Student	Project Topic
1.	Khairnar Rahul Bhagwan	Synthesis of Phenyl Hydrazine Derivative by Using Citric Acid Schiff Base
2.	Wagh Pratiksha Vijay	Synthesis of Phenyl Hydrazine Derivative by Using Citric Acid Schiff Base
3.	Patil Vrushali Rohidas	Synthesis of Phenyl Hydrazine Derivative by Using Citric Acid Schiff Base
4.	Gawale Monika Chhagan	Synthesis of Phenyl Hydrazine Derivative by Using Citric Acid Schiff Base
5.	Yelis Rushikesh Pravin	Synthesis of Pyranopyrazole using Choline Hydroxide as a Green Catalyst
6.	Shinde Ashwini Ravindra	Synthesis of Pyranopyrazole using Choline Hydroxide as a Green Catalyst
7.	Patil Sarika Purushottam	Synthesis of Pyranopyrazole using Choline Hydroxide as a Green Catalyst
8.	Girase Dhiraj Premeising	Synthesis of Pyranopyrazole using Choline Hydroxide as a Green Catalyst
9.	Mali Bhushan Rajendra	Synthesis of Isoniazide Derivative by Using Citric Acid
10.	Pandit Rutuja Jagdish	Synthesis of Isoniazide Derivative by Using Citric Acid
11.	Sudake Tejas Chandrakant	Synthesis of Isoniazide Derivative by Using Citric Acid
12.	Baviskar Pratiksha Ravindra	Synthesis of Isoniazide Derivative by Using Citric Acid
13.	Mr. Manikhedkar Jayesh Bharat	Synthesis of P-chlorobenzaldehyde semicarbazone Schiff base and its some metal complexes.
14.	Ms. Jain Siddhi Sunil	Synthesis of P-chlorobenzaldehyde semicarbazone Schiff base and its some metal complexes
15.	Ms. Suryawanshi Laxmi Sahebrao	Copper (Cu) Complexes of Schiff Bases Derived From Benzaldehyde with aniline and its derivatives.
16.	Mr. Mahajan Sachin Subhash	Study of Co(II), Ni(II), Cu(II), Zn(II) Metal Complexes of Schiff Base Derived From Isoniazid With Nitrobenzaldehyde
17.	Ahire Dipali Jaywant	Study of Co (II), Cu (II), Ni (II), Zn (II) Metal Complex of Schiff Base Derived From Isoniazide with 4-cholorobenzaldehyde.
18.	Patil Dipali Nana	Study of Cu(II), Co(II), Ni(II), Zn(II) Complexes Of Schiff Base derived from Isoniazid with Salicylaldehyde
19.	Chaudhari Ruchita Prakash	Synthesis Salicylaldehyde semicarbazone Schiff base and its some metalcomplexes
20.	Rajput Sakshi Sanjay	Cobalt (Co) Complex of Schiff Bases Derived From Benzaldehyde with aniline and its derivatives
21.	Patil Vaibhav Rajendra	Study of Cu(II), Co(II), Ni(II), Zn(II) Complexes Of Schiff Base derived from Isoniazid with Hydroxybenzaldehyde

Sr. No.	Name of the Student	Project Topic
22.	Mali Shashank Rajubhai	Zinc (Zn)-Complex of Schiff Bases Derived From Benzaldehyde with aniline and its derivatives
23.	Bhavsar Gopal Padamakar	Nickel (Ni) Complex of Schiff Bases Derived From Benzaldehyde with aniline and its derivatives
24.	Prajapati Hitesh Anil	Synthesis of Benzaldehyde Semicarbazone Schiff base and its some metal Complex
25.	Durgeshwari Bhimraj Jagdale.	MgCl ₂ Catalysed Knoevenagel Synthesis
26.	Ahhirao Yash Sachin	MgCl ₂ Catalysed Knoevenagel Synthesis
27.	Vasave Rohini Irma	MgCl ₂ Catalysed Knoevenagel Synthesis
28.	Gawali Gotu Sanjay	MgCl ₂ Catalysed Knoevenagel Synthesis
29.	More Ashwin Khanderao	Application of triethyl Amine in Knoevenagel Condensation
30.	Patil Vishal Lalit	Application of triethyl Amine in Knoevenagel Condensation
31.	Suryawanshi Pooja Chhotu	Application of triethyl Amine in Knoevenagel Condensation
32.	Sonar Mayuri Cahndrakant	Application of triethyl Amine in Knoevenagel Condensation
33.	Patil Chetna Bhupendra	Acid catalyst (HCl) Multicomponent synthesis.
34.	Raut Sagar Bulcahan	Acid catalyst (HCl) Multicomponent synthesis.
35.	Dahite Saloni Sachin	Acid catalyst (HCl) Multicomponent synthesis.
36.	Kothawade Priyanka Vijay	Acid catalyst (HCl) Multicomponent synthesis.




Principal
(Dr. P.H. Pawar)
PRINCIPAL
 Jai Hind Educational Trust's
 Zulal Bhilajirao Patil College,
 Shikshanmaharshi Nanasahab
 Z.B Patil Marg, Deopur, DHULE-2

DEPARTMENT OF CHEMISTRY

**JAI HIND EDUCATIONAL TRUST
ZULAL BHILAJIRAO PATIL COLLEGE, DHULE**

College with Potential for Excellence



RESEARCH PROJECT

Entitled

**Synthesis Of Pyranopyrazole
using Cholin Hydroxide as a Green Catalyst
*Submitted by***

Mr.Rushikesh P.Yelis

Mr.Dhiraj P.Girase

Miss. Ashwini R.Shinde

Miss. Sarika P.Patil

Under the Guidance of

Dr. Swapnil Ashok Padvi

Assistant Professor

DEPARTMENT OF CHEMISTRY

JET'S ZULAL BHILAJIRAO PATIL COLLEGE, DHULE

DEPARTMENT OF CHEMISTRY

JAI HIND EDUCATIONAL TRUST
ZULAL BHILAJIRAO PATIL COLLEGE, DHULE
College with Potential for Excellence



RESEARCH PROJECT

Entitled

**Synthesis Of Pyranopyrazole
using Cholin Hydroxide as a Green Catalyst**
Submitted by

Mr. Rushikesh P. Yelis

Mr. Dhiraj P. Girase

Miss. Ashwini R. Shinde

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Assistant Professor

DEPARTMENT OF CHEMISTRY

JET'S ZULAL BHILAJIRAO PATIL COLLEGE, DHULE

DEPARTMENT OF CHEMISTRY

JAI HIND EDUCATIONAL TRUST
ZULAL BHILAJIRAO PATIL COLLEGE, DHULE

CERTIFICATE

This is to certify that project report on "Synthesis Of Pyranopyrazole using Cholin Hydroxide as a Green Catalyst" has been submitted by *Mr. Rushikesh P. Yelis Mr. Dhiraj P. Girase, Miss. Ashwini R. Shinde, and Miss. Sarika P. Patil.* in partial fulfillment of degree of Master of Science in Organic Chemistry under my guidance and supervision in Department of Chemistry, JET'S Zulal Bhilajirao Patil College, Dhule, Affiliated to KBC North Maharashtra University, Jalgaon. The material that has been obtained from other sources has been duly acknowledged in the report. This work has not been submitted by them elsewhere for a degree or other academic award.


Dr. Swapnil A. Padvi

Project Guide


Dept. of Organic Chemistry,
JET'S Z. B. Patil College,
Dhule-424002, Maharashtra


Dr. V. B. Jadhav

Head

Dept. of Organic Chemistry,
JET'S Z. B. Patil College,
Dhule-424002, Maharashtra


12/06/2023
Dr. Examiner


12/06/2023

Dr. Examiner

DECLARATION


We here by sincerely declared that the project entitled on "Synthesis Of Pyranopyrazole using Cholin Hydroxide as a Green Catalyst" completed by us, for the partial fulfillment of degree of M. Sc. in Organic chemistry at Department of Chemistry, JET'S Zulal Bhilajirao Patil College, Dhule, Affiliated to KBC North Maharashtra University, Jalgaon. This work has not been submitted by us elsewhere for the degree or other academic award.

Place: Dhule

Date: 06/06/2023


Mr. Rushikesh P. Yelis


Mr. Dhiraj P. Girase


Miss. Ashwini R. Shinde


Miss. Sarika P. Patil

ACKNOWLEDGEMENT

We express our deep sense of gratitude to *Department of Chemistry, JET'S Zulal Bhilajirao Patil College, Dhule*, for providing us an opportunity in fulfilling our most cherished goal. We are equally thankful to Hon'ble chairman **Dr. Arun Z. Salunkhe** and CDC Chairman **Prof. Sudhir S. Patil**, JET'S Zulal Bhilajirao Patil College, for giving us the opportunity to work and providing the basic infrastructure for our project work at the college.

We take this opportunity to record my sincere thanks to Hon'ble Principal **Prof. P. H. Pawar**, and **Prof. Dr. V. B. Jadhav** (Former Head of Department) for permitting and providing the necessary laboratory facilities during my research work.

We sincerely appreciate to the faculties of Department of Chemistry namely Dr. V. B. Jadhav (Head), Dr. A. A. Patil (Former Vice-Principal), Prof. V. S. Pawar (Vice-Principal), Dr. P. S. Girase, Dr. Swapnil L. Sonawane encourage us to do the work continuously. This is our grade privileged to completion our project work.

We deeply express indebted through the core of our heart to our research guide respected **Dr. Swapnil A. Padv** Department of Organic Chemistry for their inspiring guidance, stimulating discussion and constant encouragement throughout the project present work that was with us at each and every step of our research work.

We also extend heartiest thanks to Mr. Nilesh Patil, Mr. Swapnil Shinde, Mrs. S.S.Dambir, Mrs.M.V. More for their valuable suggestion during our project tenure. Our special thanks to non- teaching staff for providing us the requirement in laboratory during the project work, library authority and our friends who helps us time to time.

We would like to take this opportunity to thanks department of Physics for their instrumentation facility during project work.

Date:-

Mr. Rushikesh P.Yelis

Mr. Dhiraj P.Girase

Miss. Ashwini R.Shinde

Miss. Sarika P.Patil



Estd. 1982

JAI HIND EDUCATIONAL TRUST'S

**ZULAL BHILAJIRAO PATIL COLLEGE, DEOPUR, DHULE
424002 (MS) INDIA**

**Criterion- I
Curricular Aspects**

1.3 Curriculum Enrichment

1.3.2. Students undertaking Project work/
Field work / Internships/ Survey

Academic Year (2022-2023)

INDEX OF DOCUMENTS

Sr. No.	Document name
3	Sample Photographs / Permission Letter




Principal

(Dr. P.H. Pawar)
PRINCIPAL

Jai Hind Educational Trust's
Zulal Bhilajirao Patil College,
Shikshanmaharshi Nanasaheb
Z.B Patil Marg, Deopur, DHULE-2



Jai Hind Educational Trust's

ZULAL BHILAJIRAO PATIL COLLEGE

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Website : www.jaihindcollege.ac.in Ph. +91-2562 - 222343 Resl. : +91-2562-273343

Fax : +91-2562 - 220678 Email : jaihind@jaihindcollege.ac.in

Ref. No.

Date : 30/09/2022

To Whomsoever It May Concern

Following T.Y. B. Se. (CBCS) Geology; Batch - 2022-23 students and staff of Geology department are visiting in the vicinity of Dhule, Sakri and Dondaicha for Geological field excursion related to course GEOL: 509 Practical Related to GEOL- 502 and 504 (Sedimentary Petrology, Palaeontology, Indian Stratigraphy and Field Geology).

Sr. No.	Name of Student
1	Aade Isha Yuvraj
2	Bhadane Shraddha Bhaskar
3	Chaudhari Khushi Anil
4	Marathe Bhavesh Rajesh
5	More Tejashri Rakesh
6	Neel Sanjana Dattatray
7	Palodkar Nisha Unmesh
8	Patil Aditi Rajesh
9	Patil Harshala Kishor
10	Patil Pooja Murlidhar
11	Pawar Manasi Mohan
12	Salunkhe Hiral Rajendra
13	Yadav Nikita Banshbahal

Sr. No.	Name of Staff
1	Ms. Arati Baride (HOD)
2	Dr. S. P. Gaikwad
3	Dr. J. B. Patil
4	Mr. S. N. Salunkhe
5	Mr. D. V. Wayal

Dr. P. H. Pawar

(Principal)

Jai Hind Educational Trust's
Zulal Bhilajirao Patil College
Wadi Bhokar Rd, Deopur, DHULE-2

Study Tour of T.Y.B.Sc. Geology



30th September 2022 - 12 students of T.Y. B. Sc. Geology, along with Arati Baride; Head of Department, Dr. S. P. Gaikwad, Dr. J. B. Patil and Mr. S. N. Salunkhe, for the field excursion in the vicinity of Dhule, Sakri and Dondaicha areas related to course GEOL: 509 Practical Related to GEOL-502 and 504 (Sedimentary Petrology, Palaeontology, Indian Stratigraphy and Field Geology).

T.Y.B.Sc Geology Study Tour



21st January 2023 - Eight students of T.Y. B. Sc. Geology; along with Dr. M. V. Baride (Visiting Faculty), Dr. S. P. Gaikwad, Dr. J. B. Patil and Mr. S. N. Salunkhe, travelled to village Borvhir Tal. and Dist. Dhule for VES survey field practical related to course GEOL 609: practical related to GEOL 603, 604 (geomorphology, mineral and fuel resources and field geology). Schlumberger and Wenner method of VES on the farm of Ms. Nisha Palodkar.



झुलाल भिलाजीराव पाटील महाविद्यालय

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Web site : www.jaihindcollege.ac.in Ph. off. +91-02562-222343 Resi. : + 91-2562-273343

Fax : +91-2562-220678 E-mail : jaihind@jaihindcollege.ac.in

Ref. No.

Date :

Department of Geography (Year – 2022-23)

List Students Participated in Socio-Economic Survey

Place: Lamkani Tal. Dhule


Date: 01/03/2023

भूगोल विभागामार्फत दिनांक 01/03/2023 रोजी द्वितीय वर्ष कला व तृतीय वर्ष कला तसेच द्वितीय वर्ष विज्ञान या वर्गातील विद्यार्थ्यांचा अभ्यासक्रमातील भाग म्हणून लामकानी या खेडेगावात आर्थिक सामाजिक सर्वेक्षण आयोजित करण्यात आलेले आहे .या सर्वेक्षणात खालील दिलेल्या यादीतील विद्यार्थी सहभागी होणार आहेत. त्यांना मार्गदर्शन करण्यासाठी विभाग प्रमुख व भूगोल विभागातील चार प्राध्यापक सोबत असणार आहे. कृपया सदर उपक्रमास परवानगी द्यावी.

Sr. No.	Name of the Student	Mob.No	Class
1	Bhamre Rohit Sunil	7821071985	S.Y.B.Sc.
2	Bhamre Bhavesh Bhatu	7083499780	S.Y.B.Sc.
3	Suryawanshi Kalpesh Dnyaneshvar	9518352772	S.Y.B.Sc.
4	Jagruti Panjabrao Nikam	8767031081	S.Y.B.Sc.
5	Nandte Shweta Sanjay	8459979001	S.Y.B.Sc.
6	Bhamre Harshada Mahendra	7822081588	S.Y.B.Sc.
7	Malik Arbaj	9307970524	S.Y.B.Sc.
8	Shekh Adnan	7385972737	S.Y.B.Sc.
9	Bhamare Harshda Dnyaneshwar	9359183342	S.Y.B.Sc.
10	Shinde Hemlata Kishor	7498632087	S.Y.B.Sc.
11	Bhamre Kalpeshwari Sunil	9325423182	S.Y.B.Sc.
12	Patil Harshda Madhukar	7499884712	S.Y.B.Sc.
13	Patil Tejaswini Bhatu	7744876585	S.Y.B.Sc.
14	Thakur Nandini Vidyadhar	8459557699	S.Y.B.Sc.
15	BhamrePrafullGulab	8380834727	S.Y.B.Sc.
16	Baviskar Himanshu Kailas	7798476247	S.Y.B.Sc.
17	Patil ManishKumar Dnyaneshwar	9359872210	S.Y.B.Sc.
18	Patil Vaishnavi Adhikar	9597394854	S.Y.B.Sc.
19	Patil Bhushan Vijay	9028510511	S.Y.B.Sc.
20	Patil Priyanka Chaitram	9370161288	S.Y.B.Sc.
21	Dhivre Vaibhavi Ghansham	7588277290	S.Y.B.Sc.
22	Patil Digambar Aasaram	8698873366	S.Y.B.Sc.
23	Patil Pratiksha Prakash	8767630717	S.Y.B.Sc.
24	Patil Komal Ravindra	8830709877	S.Y.B.Sc.
25	Patil Madhuri Kishor	9607534351	S.Y.B.Sc.

26	Patil Eshwar Pravin	9359059619	S.Y.B.Sc.
27	Nagarale Rohini Vijay	7820912860	S.Y.B.Sc.
28	Tadavi Ranjana Virsing	9284861055	S.Y.B.Sc.
29	Bora Aastha Pravin	7403215555	S.Y.B.Sc.
30	Borse Bhagyashri Jagan	8669519363	S.Y.B.Sc.
31	Suryawanshi Kalyani Balu	8799930163	S.Y.B.Sc.
32	Badane Dhanashri Kishor	8799930163	S.Y.B.Sc.
33	Wagh Sagar Chudaman	9307897631	S.Y.B.Sc.
34	Khairnar Purushottam Tulsiram	7498361240	S.Y.B.Sc.
35	Wagh Diksha Manohar	8080564406	S.Y.B.Sc.
36	Pardesi Rahul Vilas	9307434005	S.Y.B.A.
37	Bhamare Harshal Rajendra	9130687198	S.Y.B.A.
38	Khardak Sumit Suresh	9309821112	S.Y.B.A.
39	More Puja Bhatu	9067703880	S.Y.B.A.
40	Marathe Vishal Rajendra	7350245952	S.Y.B.A.
41	ShirshathShekhar Anil	8010462687	S.Y.B.A.
42	Shinde Prashant Rajendra	9022865542	S.Y.B.A.
43	Patil Sachin Sanjay	7447700561	T.Y.B.A.
44	Rajput Anvit Rajendra	8411084594	T.Y.B.A.
45	Shah Junaid Salauddin	9764275727	T.Y.B.A.
46	Mali Chaitnya Madhvrao	8408864165	T.Y.B.A.
47	Baisane Ankit Tushar	9322919483	T.Y.B.A.
48	Ahire Tejaswini Dilip	8856808067	T.Y.B.A.
49	Mahale kirti Kishor	8208919986	T.Y.B.A.
50	Bandre Harshal Rajendra	9021058063	T.Y.B.A.
51	Patil Niranjan Namdeo	9359465499	T.Y.B.A.
52	Chaudhari Sonali Shivdas	8308564824	T.Y.B.A.
53	Deore Samadhan Prabhat	8010254814	T.Y.B.A.
54	Patil Bhushan Ravindra	9422477261	T.Y.B.A.
55	Patil Piyush Arun	9607293861	T.Y.B.A.
56	PatilShitalwaman	9309087896	T.Y.B.A.
57	MankarAanand	7620550159	T.Y.B.A.
58	Mali Vishal	9075906531	T.Y.B.A.
59	Thamkhane Dipak Anil	9146009765	T.Y.B.A.
60	Thakare Jayesh Dattatray	7821090660	S.Y.B.A.




 Principal
 (Dr. P.H. Pawar)
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 Shikshanmaharshi Nanasaheb
 Z.B Patil Marg, Deopur, DHULE-2


Department of Geography

Visit to Soil and Water Conservation Project, Lamkani (1 March 2023)



Socio-economic Survey at Village Lamkani (1 March 2023)




Principal
(Dr. P.H. Pawar)
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**ZULAL BHILAJIRAO PATIL COLLEGE, DEOPUR, DHULE
424002 (MS) INDIA**

Criterion- I Currucular Aspects

1.3 Curriculum Enrichment

1.3.2. Students undertaking Project work/
Field work / Internships/ Survey

Academic Year (2022-2023)

INDEX OF DOCUMENTS

Sr. No.	Document name
4	Course wise syllabus of Field work/ Project work/ Survey




Principal

(Dr. P.H. Pawar)
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NORTH MAHARASHTRA UNIVERSITY, JALGAON



NAAC Re-accredited
'B' (CGPA 2.88)

Faculty of Commerce and Management

Syllabus



BACHELOR IN COMPUTER APPLICATION
(TYBCA)

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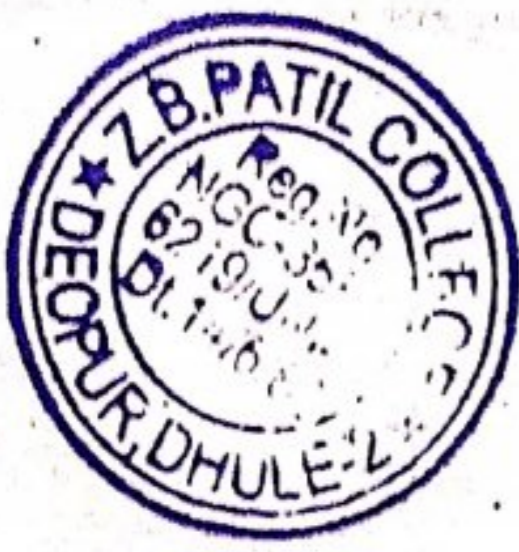
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With effect from June-2016-17

Majirao Patil College
Wadi Bhokar Road, Dhule

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STRUCTURE
BACHELOR OF COMPUTER APPLICATION [TYBCA]
W.E.F. 2016-17

First Year BCA- (Sem I & II) w.e.f. 2014-15			
Paper	Semester-I	Paper	Semester-II
BCA 11	Foundation Course for Managers	BCA 21	Financial Accounting & Costing
BCA 12	Professional Communication I	BCA 22	Professional Communication II
BCA 13	Fundamentals of Computer & Internet	BCA 23	Database Management
BCA 14	Programming in C++ Part I	BCA 24	Programming in C++ Part II
BCA 15	Practical on Internet & HTML	BCA 25	Practical on MS-Access & Oracle
BCA 16	Practical on Professional Communication I	BCA 26	Practical on Professional Communication II
BCA 17	Practical on C++ Part I	BCA 27	Practical on C++ Part II

Second Year BCA – (Sem III & IV) w.e.f. 2015-16			
Paper	Semester-III	Paper	Semester-IV
BCA31	Mathematics and Statistics for Managers	BCA41	C# .Net
BCA32	Computer Animation Using Flash	BCA42	Stock And Commodity Market
BCA33	Career Management & Counseling	BCA43	Data Structure
BCA34	Java Programming	BCA44	Cyber Crime and Security
BCA35	Practical on Computer Animation	BCA45	Practical on Transaction related to Stock And Commodity
BCA36	Practical on Java	BCA46	Practical on Data Structure using C++
BCA37	Practical on Tally ERP	BCA47	Practical on C# .Net

Third Year BCA – (Sem V & VI) w.e.f. 2016-17			
Paper	Semester-V	Paper	Semester-VI
BCA51	Entrepreneurship Development	BCA61	Introduction to ERP and SAP
BCA52	Soft Skills Development	BCA62	System Analysis And Design
BCA53	Linux Operating System	BCA63	Server Side Scripting using PHP
BCA54	Internet Programming with ASP.NET	BCA64	Introduction to Information System Audit
BCA55	Practical on Soft Skills Development	BCA65	Practical on PHP
BCA56	Practical on ASP.net & Linux O.S.	BCA66	Practical on CASE Tool with MS VISIO
BCA57	Field Work	BCA67	Project

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North Maharashtra University, Jalgaon
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FACULTY OF COMMERCE & MANAGEMENT
T.Y.B.C.A. Semester-V
BCA 57 FIELD WORK



External Marks 50 + Internal Marks 50 = Maximum Total Marks: 100

Objective: – To understand the social issues in the society by carrying out a real life social project using research methodology.

FIELD WORK

1. Each student shall have to undergo a field work during 5TH Semester.
2. In the 5th semester examination student are required to carry out a Field Work individually or by group of two students. It should be compulsorily based on social problems as mentioned in the point 3. The topic should be decided with consultation and guidance of internal teacher of the Institute. The field work should be necessarily Research oriented, Innovative and Problem solving.
3. The field work should be related (Not restricted) to social issues such as -Education, Sanitation, Health, Village/cottage industry, watershed management, problems of slum area, Tribal upliftment, Rehabilitation, Andhashraddha etc....
4. The student has to write a report based on the actual Field work, get it certified by the concerned Guide/teacher that the fieldwork has been satisfactorily completed and submit TWO typed copies of the same to the Head / Director of the institute /Principal of the college. One copy of the report submitted by the student shall be forwarded to the University by the Institute.
5. Field work shall be strictly based on primary data. The Sample Size shall be minimum 100. The students are encouraged to use advance excel or spss software.
6. Field work viva shall be conducted at the end of Semester V
7. Viva Voce for one student shall be of minimum 15 minutes. The Student has to prepare Power Point presentation based on field work to be presented at the time of Viva voce.
8. The field work will carry maximum 100 marks, of which internal teacher shall award marks out of maximum 50 marks on the basis of work done by the student. Remaining marks shall be awarded out of maximum 50 marks by examining the student during Viva-voce, by the External examiner.

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North Maharashtra University, Jalgaon

(NACC Re-Accredited 'A' Grade University)

FACULTY OF COMMERCE & MANAGEMENT

T.Y.B.C.A. Semester-VI

BCA 67 Project

External Marks 50 + Internal Marks 50 = Maximum Total Marks: 100

Objective: – To prepare students to use applications of the theory and practical learned during the course.

PROJECT WORK

1. Each student shall have to carry out the project work based on System Development which may include Application Program, Database Management System, Web Based Application, Smart phone Application, System Tools, Network System Application, etc. A project may be carried out at any outside organization or on a sub system of an organization.
2. The project work should be carried out individually. No group work is allowed in the Project work. The project title should not be repeated.
3. The topic of the project should be decided with the consultation & guidance of an internal guide-teacher of the institute/college. The project should be necessarily innovative and problem solving. No teacher shall be entrusted with more than 15 students for guidance and supervision.
4. The student should clearly mention the need of project, database(s), files required for the project, DFD, Normalization, ERD, software used for the project, reasons for selection of that software, inputs required, outputs produced etc.
5. The application should be menu driven and should provide the facilities of storage of data, modifications in existing data, deletion of unwanted data, and viewing of data.
6. The student has to write a report based on the actual work undertaken during the vacations at the specific selected enterprise/ organization or sub system and get it certified by the concerned teacher that the Project report has been satisfactorily completed and submit TWO typed copies of the same to the Head / Director of the institute /Principal of the college.
7. One copy of the report submitted by the student shall be forwarded to the University by the Institute.
8. No student will be permitted to appear for Viva-Voce examinations, unless and until the project report is submitted within the stipulated time.

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NORTH MAHARASHTRA UNIVERSITY, JALGAON

Faculty of Commerce and Management

Syllabus

BACHELOR IN BUSINESS ADMINISTRATION (TYBBA)

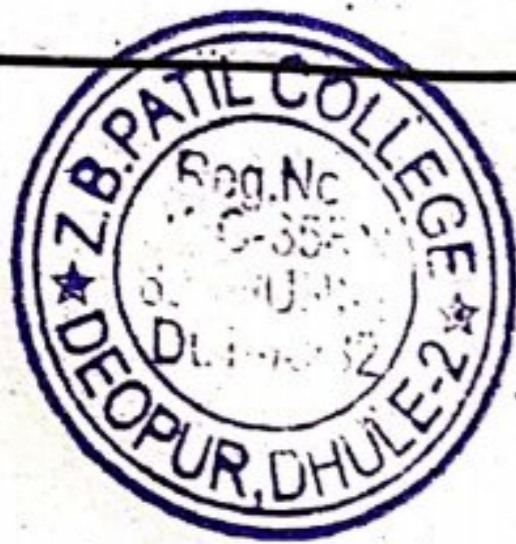
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NORTH MAHARASHTRA UNIVERSITY, JALGAON
Faculty of Commerce & Management
Structure
Bachelor Programme in Business Administration: T.Y.B.B.A.
(With effect from June- 2016-17)

First Year B.B.A. (New Structure W.E.F. June: 2014-15)		
Paper	SEMESTER-I	Paper
A1.1	Foundation Course for Managers	A2.1
A1.2	Professional Communication-I	A2.2
A1.3	Principles of Management	A2.3
A1.4	Principles of Economics	A2.4
A1.5	Computer Fundamentals & Office Automation	A2.5
A1.6	Practical on Professional Communication -I	A2.6
A1.7	Practical on Office Automation	A2.7

Second Year B.B.A. (New Structure W.E.F. June: 2015-16)		
Paper	SEMESTER-III	Paper
A3.1	Mathematics & Statistics for Managers	A4.1
A3.2	Corporate governance	A4.2
A3.3	Career Management & Counseling	A4.3
A3.4	Production & Materials Management	A4.4
A3.5	Corporate Accounting	A4.5
A3.6	Practical on Tally ERP 9.0	A4.6
A3.7	Practical based on Advanced Excel	A4.7

Third Year B.B.A. (New Structure W.E.F. June: 2016-17)		
Paper	SEMESTER-V	Paper
A5.1	Entrepreneurship Development	A6.1
A5.2	Soft Skills Development	A6.2
A5.3	Human Resource Management	A6.3
A5.4	Marketing Management	A6.4
A5.5	Financial Management	A6.5
A5.6	Practical in Soft Skills Development	A6.6
A5.7	Field Work	A6.7


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North Maharashtra University, Jalgaon
(NACC Re-Accredited 'A' Grade University)
FACULTY OF COMMERCE & MANAGEMENT
T.Y.B.B.A. Semester-VI



A 6.7 Project Report

External Marks 50 + Internal Marks 50 = Maximum Total Marks: 100

Objective: – To prepare students to use applications of the theory and practical learned during the course. .

PROJECT WORK

1. Each student shall have to carry out the project work based on HR/Marketing/Finance/Operations/IT Domain using Management Research Methodology..A project may be carried out at any outside organization or on a sub system of an organization.
2. The project work should be carried out individually. No group work is allowed in the Project work. The project title should not be repeated.
3. The topic of the project should be decided with the consultation & guidance of an internal guide-teacher of the institute/college. The project should be necessarily innovative and problem solving. No teacher shall be entrusted with more than 15 students for guidance and supervision.
4. The student should clearly mention the need of project, Research Methodology, Findings, Recommendation, Conclusion, etc.
5. The application should be menu driven and should provide the facilities of storage of data, modifications in existing data, deletion of unwanted data, and viewing of data.
6. The student has to write a report based on the actual work undertaken during the vacations at the specific selected enterprise/ organization or sub system and get it certified by the concerned teacher that the Project report has been satisfactorily completed and submit TWO typed copies of the same to the Head / Director of the institute /Principal of the college.
7. One copy of the report submitted by the student shall be forwarded to the University by the Institute.
8. No student will be permitted to appear for Viva-Voce examinations, unless and until the project report is submitted within the stipulated time.

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अंतरी पेटवू ज्ञानज्योत



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KAVAYITRI BAHINABAI CHAUDHARI
NORTH MAHARASHTRA UNIVERSITY,
JALGAON

FACULTY OF SCIENCE AND TECHNOLOGY

Choice Based Credit System (CBCS) Pattern

Syllabus for **T. Y. B. Sc. GEOLOGY**

Semester V and VI

With effect from June, 2020

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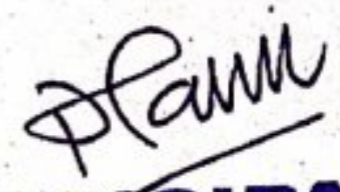


Structure of curriculum of T.Y.B.Sc. (GEOLOGY)

(CBCS) Pattern

Semester V

Discipline	Course Type	Course Code	Course Title	Credits	Hours/Week (Clock Hours)	Total Teaching Hours	Marks (Total 100)	
							CA	UA
DSC	Core I	Geol- 501	Structural Geology	3	3	45	40	60
	Core II	Geol- 502	Sedimentary Petrology	3	3	45	40	60
	Core III	Geol- 503	Mineralogy	3	3	45	40	60
	Core IV	Geol- 504	Paleontology	3	3	45	40	60
DSC Skill Enhancement Course (SEC)	Skill Based	Geol- 505	Indian Stratigraphy	3	3	45	40	60
DSC Elective Course	Elective Course (Any One)	Geol- 506 (A)	Economic Geology	3	3	45	40	60
		Geol- 506 (B)	Exploration Geology					
DSC	Core Practical	Geol- 507	Practical related to 501	2	4 (Per Batch)	60	40	60
		Geol- 508	Practical related to 503	2	4 (Per Batch)	60	40	60
		Geol- 509	Practical related to 502, 504 and Field Geology	2	4 (Per Batch)	60	40	60
Non Credit Audit Course	Elective audit course (Any one)	AC- 501 (A)	NSS	No credit	2	30	100	-----
		AC- 501 (B)	NCC					
		AC- 501 (C)	Sports					


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Structure of Curriculum of T.Y.B.Sc. (GEOLOGY)

(CBCS) Pattern

Semester VI

Discipline	Course Type	Course Code	Course Title	Credits	Hours/Week (Clock Hours)	Total Teaching Hours	Marks (Total 100)	
							CA	UA
DSC	Core I	Geol- 601	Crystallography and Optics	3	3	45	40	60
	Core II	Geol- 602	Igneous and Metamorphic Petrology	3	3	45	40	60
	Core III	Geol- 603	Mineral and Fuel Resources	3	3	45	40	60
	Core IV	Geol- 604	Geomorphology	3	3	45	40	60
DSC Skill Enhancement Course (SEC)	Skill Based	Geol- 605	Environmental Geology	3	3	45	40	60
DSC Elective Course	Elective Course (Any One)	Geol- 606 (A)	Geotechnics	3	3	45	40	60
		Geol- 606 (B)	Physics and Chemistry of the Earth					
DSC	Core Practical	Geol- 607	Practical related to 601	2	4 (Per Batch)	60	40	60
		Geol- 608	Practical related to 602	2	4 (Per Batch)	60	40	60
		Geol- 609	Practical related to 603, 604 and Field Geology	2	4 (Per Batch)	60	40	60
Non Credit Audit Course	Elective audit course (Any one)	AC- 601 (A)	Soft Skill	No credit	2	30	100	-----
		AC- 601 (B)	Yoga					
		AC- 601 (C)	Practicing Cleanliness					

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KAVAYITRI BAHINABAI CHAUDHARI
NORTH MAHARASHTRA UNIVERSITY, JALGAON

T.Y.B.Sc. (CBCS) GEOLOGY SYLLABUS

SEMESTER V (PRACTICAL)

(w. e. f. June 2020)

GEOL 509: PRACTICAL RELATED TO GEOL- 502 AND 504 (SEDIMENTARY
PETROLOGY, PALEONTOLOGY, INDIAN STRATIGRAPHY AND FIELD GEOLOGY)

Unit No	Topic	Sub-topic
I	Sedimentary Petrology	a Study of the following Megascopic rocks with regards to their texture/ structure, description, identification and classification, giving their sedimentological significance of : Conglomerate, Breccia, Laterite, Bauxite, Freestone, Flagstone, Calcareous sandstone, Siliceous sandstone, Ferruginous sandstone, Arkose, Speckled sandstone, Ferruginous and Carbonaceous Shale, Limestone, Calcrete, Crinoidal limestone, Fossiliferous Limestone. b Thin section study of the following sedimentary rocks : Sandstone, Ferruginous sandstone Arkose, Nummulitic limestone, Meliolitic limestone and Limestone. c Plotting and calculation of the sieve analysis data and environmental interpretation and energy condition.
II	Invertebrate Micropalaeontology Palaeobotany,	Study of 25 animal fossil/Shells, 5 microfossils and 5 plant fossils.
III	Field Geology	Field work for about one week in an area of geological interest, anywhere in India and PREPARATION OF FIELD TOUR REPORT OR PROJECT REPORT (not more than 100 pages) OR REVIEW ARTICLE (not more than 100 pages).

A. P. Patil
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KAVAYITRI BAHINABAI CHAUDHARI
NORTH MAHARASHTRA UNIVERSITY, JALGAON

T.Y.B.Sc. (CBCS) GEOLOGY SYLLABUS

SEMESTER VI (PRACTICAL)

(w. e. f. June 2020)

GEOL 609: PRACTICAL RELATED TO 603, 604 AND FIELD GEOLOGY (MINERAL
AND FUEL RESOURCES AND GEOMORPHOLOGY, GEOTECHNICS AND FIELD
GEOLOGY)

Unit No	Topic	Sub-topic
I	Geomorphology	a. Calculation of Stream ordering and Bifurcation ratio. b. Calculation of Basin area, Stream length, Perimeter and Drainage texture. c. Identification and description of following landforms - d. River: Mesa and Butte, Water divide, Cuesta and Hogback e. Sea: Longshore deposits (Tombolo, Lagoons and Tidal flats) f. Drainage network patterns (dendritic, trellis, rectangular, radial, annular, parallel) g. Study of Soil profile.
II	Hydrogeology	Interpretation of Vertical Electrical Sounding for Groundwater exploration.
III	Engineering Geology	a. Study of different type of Dams. b. Data analysis on core recovery and Rock Quality Designation. c. Use of building stones.
IV	Field Geology	Field work for about one week in an area of geological interest, anywhere in India and PREPARATION OF FIELD TOUR REPORT OR PROJECT REPORT (not more than 100 pages) OR REVIEW ARTICLE (not more than 100 pages).

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**Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon**

SYLLABUS

M. Sc.

Microbiology

***Choice Based Credit System
(Outcome Based Curriculum)***

**Department of Microbiology, School of Life Sciences
Kavayitri Bahinabai Chaudhari North Maharashtra University
Jalgaon 425 001 (M.S.), INDIA**

2019 - 2020

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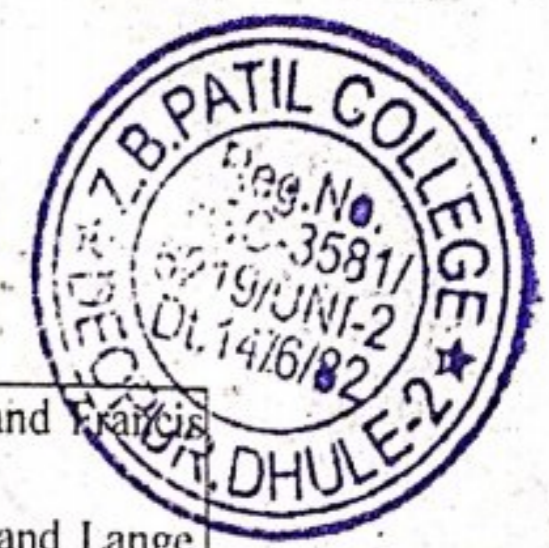


Equivalence for M.Sc. (Microbiology) is given below:

Old Syllabus (w. e. f. AY 2015-2016) Semester I (Pattern 60:40)	New Syllabus as per CBCS (w. e. f. AY 2019 -20) Semester I (Pattern 60:40)
	Core Courses
MB 101: Microbial Diversity	MB 101 - Microbial Taxonomy and Diversity
MB 102: Microbial Biochemistry	MB 102 - Microbial Physiology and Biochemistry
MB 104: Methods in Microbiology	MB 103 - Methods in Microbiology
MB 105: Methods in Biochemistry	MB 104 - Methods in Microbial Chemistry
	Skill Based Course
MB 103: Bioinstrumentation	MB 105 - Bioinstrumentation
	Audit Course
	AC 101: Practicing Cleanliness
Semester II (Pattern 60:40)	Semester II (Pattern 60:40)
	Core Courses
MB 302: Molecular Biology and Bioinformatics	MB 201: Molecular Biology and Bioinformatics
MB 202: Microbial Enzymology	MB 202 - Microbial Enzymology
MB 203: Immunology	MB 203 - Immunology
MB 205: Methods in Molecular Biology	MB 204: Methods in Molecular Biology and Immunology
	Skill Based Course
MB 204: Methods in Enzymology	MB 205: Methods in Enzymology
	Audit Courses
	AC 201A: Soft Skills
	AC 201B: Sports Activities
	AC 201C: Yoga
	AC 201D: Music
Semester III (Pattern 60:40)	Semester III (Pattern 60:40)
	Core Courses
MB 303: Pharmaceutical Microbiology	MB 301: Pharmaceutical Microbiology
MB 402: Applied Molecular Biology	MB 302: Applied Molecular Biology
MB 304: Methods in Biostatistics and Bioinformatics	MB 304: Methods in Bioinformatics
MB 305: Methods in Applied Microbiology	MB 305: Methods in Applied Microbiology
	Elective Courses
MB 301: Applied and Environmental Microbiology	MB 303: Applied and Environmental Microbiology
	BC 303: Toxicology
	BT 303: Advanced Environmental Biotechnology
	Audit Courses
	AC 301A: Computer Skills
	AC 301B: Cyber Security
	AC 301C: Seminar + Review Writing
	AC 301D: Biostatistics
Semester IV (Pattern 60:40)	Semester IV (Pattern 60:40)
	Core Courses
MB 401: Fermentation Technology	MB 401: Fermentation Technology
MB 201: Microbial Genetics	MB 402: Microbial Genetics
MB 404: Methods in Biotechnology	MB 404: Methods in Biotechnology
MB 405: Laboratory course (Project Dissertation)	MB 405: Laboratory course (Project Dissertation)
	Elective Courses
MB 403: Agricultural Microbiology	MB 403: Agricultural Microbiology
	BC 403: Industrial Biotechnology & Food Biochemistry
	BT 403: Pharmaceutical Biotechnology
	Audit Courses
	AC 401A: Human Rights
	AC 401B: Current Affairs
	AC 401C: Seminar + Review Writing
	AC 401D: Intellectual Property Rights (IPR)

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Page 11 of 35
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- Schmauder, H.P, Schweizer, M and Schewizer, L.M (2003) Methods in Biotechnology, Taylor and Francis Ltd., London (ISBN: 0-7484-0430-9)
- Davis, L.G., Dibner, MD and Battey, JF (1986) Basic Methods in Molecular Biology, Appleton and Lange, Norwalk (ISBN: 0-8385-0582-1)

M.Sc. Part II Semester IV (Microbiology): Skill Based Courses

MB – 405: Laboratory course (Project Dissertation)

Course Objectives:

1. To give exposure to the students to research culture and technology
2. To introduce students how to select a research topic, plan, perform experiments, collect data and analyse the data
3. To foster self-confidence and self-reliance in the students as he/she learns to work and think independently

Course Outcomes: On completion of this course, the student will be able to:

1. conceive a problem based on published research and carry out comprehensive survey of literature
2. plan and carry out task in given framework of dissertation and present the work in written and viva
3. use a holistic view to critically, independently and creatively identify, formulate and deal with complex issues.
4. learn handling of instruments, use of chemicals and how to conduct the experiments
5. learn how to present the project in power point and answer the queries to examiners as well as science of writing

The project is allotted during the Forth semester. The students will get an opportunity to become a part of ongoing research activities in the respective supervisor's laboratory and can explore experience in different areas of microbiology viz. agriculture, food, medicine and pharmaceutical, etc. The students will acquire skill to write, compile and analyze data, and present the detailed technical/scientific report. At the end of successful project semester training, potentially the students become employable in the industries/organizations.

It is expected that the students will design experiments and collect experimental data to deduce conclusions. At the end, they will submit a detailed thesis for evaluation. The students should be introduced to research methodology in the beginning through few lectures.

The systematic approach towards the execution of project should be as follows:

1. Selection of topic relevant to priority areas of biotechnology.
2. Collection of literature on the topic of research from libraries, internet, on-line journals, Planning of research experiments
3. Performing the experiments with scientific and statistical acceptability.
4. Presentation of observations and results.
5. Interpretation of results and drawing important conclusions.
6. Discussion of obtained results with respect to literature reports.
7. Writing monthly progress report
8. Preparation of report (Dissertation) containing introduction, materials and methods, results and discussion, conclusions, bibliography and submission of at least 3 copies (1 copy retained in the department and after examination submitted to Library, 1 copy submitted to the guide and 1 copy kept with the candidate).
9. Presentation of research data during university examination and submission of project dissertation in a bound form.

1. Internal examination (40 marks): Components of continuous internal assessment: Submission of monthly progress report and signed by supervisor (at least 4 reports) (2 marks per report = 8 marks), Literature collected, experiment planning and design (10 marks), Experiments conducted (10 marks), outcome of the experiments and viva (8 marks) and regular attendance (4 marks) recorded: Research Supervisors
2. External examination (60 marks) and Components of external assessment: Subject matter (5 marks), Review of literature (10 marks), Writing of dissertation submitted in bound form at the time of examination (Title page, Certificate, Plagiarism report, Main content: Abstract, Introduction, Literature, Materials and methods, results and discussion and conclusion with relevant references) (15 marks), Presentation structure (PPT format) (8 marks), Overall presentation reflecting contribution of work (4 marks), Response to questions (15 marks).

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FACULTY OF SCIENCE & TECHNOLOGY
KAVAYITRI BAHINABAI CHAUDHARI NORTH
MAHARASHTRA UNIVERSITY, JALGAON



'A' Grade
NAAC Re-Accredited
(3rd Cycle)

SYLLABUS
FOR
T. Y. B. Sc. (PHYSICS)

(AS PER CHOICE BASED CREDIT SYSTEM PATTERN OF UGC)

(With effect from June - 2020)

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BOS (PHYSICS)-Faculty of Science & Technology
Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon
 Class: T. Y. B. Se. Subject: Physics
 Choice Base Credit System (With effect from June 2020)

The Board of Studies in Physics has unanimously accepted the revised syllabus (as per CBCS pattern) prepared by different committees, discussed and finalized in the **Online Workshop on Curriculum Development in Physics at T. Y. B. Se.** held on 15th and 16th May 2020.

The titles of the papers for T.Y.B.Se. (Physics) are as given below:

Sem	Course type	Course code	Course title	Credits	Total hrs /week	Total teaching periods	Total marks	
							CA	UA
V	Discipline specific Course (DSC)	PHY 501	Mathematical Physics	3	3	45	40	60
		PHY502	Solid State Physics	3	3	45	40	60
		PHY 503	Atomic and molecular physics	3	3	45	30	60
		PHY 504(A) Or. PHY 504(B)	Electronics-II Or Instrumentation -II	3	3	45	40	60
	Skill Enhancement course (SEC)	PHY 505	Solar Energy and applications	3	3	45	40	60
	DSE Elective course (Any one)	PHY 506(A) PHY 506(B) PHY 506(C) PHY 506(D) PHY 506 (E)	Technical Electronics- I or Refrigeration and Air conditioning- I or Vacuum Technology-I or Microprocessor-I or Programming in C++ I	3	3	45	40	60
	DSC CORE Practicals	PHY 507	Physics Practical I	2	4 (per batch)	60	40	60
		PHY 508	Physics Practical II	2	4 (per batch)	60	40	60
		PHY 509	Physics Practical III or Project	2	4 (per batch)	60	40	60
	Non credit audit course (Any one)	AC 501(A)	NCC	No credit	2	30	100	
AC 501(B)		NSS						
AC 501 (C)		Sports						
			Total credit	24				

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Sem	Course type	Course code	Course title	Credits	Total hrs /week	Total teaching periods	Total marks	
							CA	UA
VI	Discipline specific Course (DSC)	PHY 601	Quantum mechanics	3	3	45	40	60
		PHY 602	Material Science	3	3	45	40	60
		PHY 603	Nuclear Physics	3	3	45	30	60
		PHY 604	Modern Physics	3	3	45	40	60
	Skill Enhance ment course (SEC)	PHY 605	Basic Instrumentation Skills	3	3	45	40	60
	DSE Elective course (Any one)	PHY 606 (A) PHY 606 (B) PHY 606 (C) PHY 606 (D) PHY 606 (E)	Technical Electronics- I or Refrigeration and Air conditioning- II or Vacuum Technology-II or Microprocessor-I or Programming in C++ II	3	3	45	40	60
	DSC CORE Practicals	PHY 607	Physics Practical I	2	4 (per batch)	60	40	60
		PHY 608	Physics Practical II	2	4 (per batch)	60	40	60
		PHY 609	Physics Practical III or Project	2	4 (per batch)	60	40	60
	Non credit audit course (Any one)	AC 601(A)	Soft skill	No credit	2	30	10	0
AC 601(B)		Yoga						
AC 601(C)		Practicing Cleanliness						
			Total credit	24				

Note: The industrial/study tour is compulsory for students of T. Y. B. Sc. (Physics).

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Semester V: (LAB): Physics paper VII

PHY 509: Project -I

(Credits: 02): (60 L, 100M (40 Internal + 60 External))

ASSESSMENT OF PROJECT- FIRST TERM:

Student should submit a Progress Report on the work done by him/her during the First Phase of the project i.e..on the topics :

1. Project Selection
2. Literature Search Strategy
3. Literature Review
4. Project Planning.
5. Experimental work (30 to 40 %)

Instructions:

1. The topic of project of the first term must be continued in the second term.
2. The project report of first term should be maintained and should be produced to examiner of second term.
3. The student will have to give a seminar on the project topic in the practical exam.
4. The student must perform his project presentation by PPT on LCD projector.

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Semester VI: (LAB): Physics paper VIII
PHY 609: Project II

(Credits: 02): (60 L, 100M (40 Internal + 60 External))

ASSESSMENT OF PROJECT- SECOND TERM:

Student should submit a Final Project Report on the work done by him/her during the First and Second Phase of the Project i.e. on the topics:

1. Experimental work. (remaining further work in continuation with the work in the first term)
2. Characterize the samples, if any.
3. Discussion of the results.
4. Conclusions.

Instructions:

1. The topic of project of the first term must be continued in the second term.
2. The project report of first term should be maintained and should be produced to examiner of second term.
3. The student will have to give a seminar on the project topic in the practical exam.
4. The student must perform his project presentation by PPT on LCD projector.

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JALGAON-425001, INDIA



SYLLABUS UNDER
FACULTY OF SCIENCE & TECHNOLOGY

FOR
T.Y.B.Sc.(Statistics)
Semester V and VI of B.Sc. with CBCS

WITH EFFECT FROM ACADEMIC

YEAR 2020-2021

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Wadi Bhokar Road, Dhule.

Wadi Bhokar Road, Dhule



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
SYLLABUS FOR T.Y.B.Sc.(Statistics)

B.Sc.(Semester-V and Semester-VI) with effect from June 2020

Course Structure Semester V

Discipline and Course Type	Course Code	Title of Course	Credits	Teaching (Clock Hrs /week)	Total Teaching Hours	Marks Wt	
						INT (CA)	EXT (UA)
Discipline Specific Core Courses (DSC)	ST-501	Distribution Theory-I	3	3	45	40	60
	ST-502	Statistical Inference-I	3	3	45	40	60
	ST-503	Design of Experiments	3	3	45	40	60
	ST-504	Sampling Theory	3	3	45	40	60
DSC-Skill Enhancement	ST-505	Statistical Techniques for Research Methods	3	3	45	40	60
DSC-Elective (Select one)	ST-506(A)	Introduction to Regression Analysis	3	3	45	40	60
	ST-506(B)	Stochastic Processes					
DSC-Practical	ST-507	Statistics Practicals-V	2	4/Batch	60	40	60
	ST-508	Statistics Practicals- VI	2	4/Batch	60	40	60
	ST-509	Statistics Practicals- VII	2	4/Batch	60	40	60
Non Credit Elective Audit Course (Select one)	AC-501(A)	NSS	--	2	30	100	--
	AC-501(B)	NCC					
	AC-501(C)	Sports					

Course Structure (Semester VI)

Discipline and Course Type	Course Code	Title of Course	Credits	Teaching (Clock Hrs /week)	Total Teaching Hours	Marks Wt	
						INT (CA)	EXT (UA)
Discipline Specific Course(DSC)-Core	ST-601	Distribution Theory-II	3	3	45	40	60
	ST-602	Statistical Inference-II	3	3	45	40	60
	ST-603	Statistical Quality Control	3	3	45	40	60
	ST-604	Official Statistics and Applied Statistics	3	3	45	40	60
DSC-Skill Enhancement	ST-605	C-Programming	3	3	45	40	60
DSC-Elective (Select one)	ST-606(A)	Optimization Techniques	3	3	45	40	60
	ST-606(B)	Actuarial Statistics					
DSC-Practical	ST-607	Statistics Practicals- VIII	2	4/Batch	60	40	60
	ST-608	Statistics Practicals-IX	2	4/Batch	60	40	60
	ST-609	Statistics Practicals-X-Project	2	4/Batch	60	40	60
Non Credit Elective Audit Course (Select one)	AC-601(A)	Soft skill	--	2	30	100	--
	AC-601(B)	Yoga					
	AC-601(C)	Practicing Cleanliness					

Note: Detail syllabus and process of conducting non-credit elective Audit courses will be given separately.(common for all degree programs) by University.

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ST-608: Statistics Practicals-IX

Note: All Practicals in this paper are to be carried out by using R/MS-Excel/MINITAB software and C-Programming.

1. \bar{X} -R charts, computation of probabilities of detecting shift in process average, Cp and Cpk
2. p-charts, computation of probabilities of detecting shift in process fraction defective
3. c and u-charts
4. X & MR charts, CUSUM charts.
5. Single Sampling Plans (with OC, AOQ, AOQL, ATI, ASN curves)
6. Double Sampling Plans (with OC, AOQ, AOQL, ATI, ASN curves)
7. Construction of life tables and Problems based on life tables

Practicals based on C-Programming

8. A) To find mean, variance and coefficient of variation of n observations.
B) Arrange the observations in ascending order of magnitude and find median of n observations.
9. To find mean, median, variance and coefficient of variation of frequency distribution when f_j and x_i are given.
10. To find correlation coefficient for a given bivariate data.
11. To fit a line of regression of Y on X for a given bivariate data.

Practicals based on elective paper: Actuarial Statistics

12. Problems based on simple interest and compound interest.
13. Problems based on annuity immediate and due.
14. Loan repayment calculations.
15. Calculation of Net Single Premium for n-year term life insurance

ST-609: Statistics Practicals-X-Project

Project duration: November to February.

- Project Guide: Teachers from the Department of Statistics and/or personnel from organization where student is going to visit for field work or training. Each project group will be guided by concerned teacher (guide)
- Project Topic: Students in consultation with the guide will decide Project Topic/Area. Project work may be carried out in a group of students (maximum five) depending upon the depth of fieldwork/problem involved. Project work should be based on real life data related to social/ industrial/medical/ banking etc fields. Students may also use primary, secondary or simulated data sets for their project work.
- Project report: Students are supposed to write the project report on project work and submit a copy of project report to department before practical examinations.

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• Project evaluation:

Type of assessment	Marks	
College Assessment(CA)	40	Evaluation by guide teacher
University Assessment(UA)	60	Evaluation by Examiners

Reference Websites:

Teachers and students are expected to visit following websites for additional teaching learning material

1. www.freestatistics.tk(National Statistical Agencies)
2. www.psychstat.smsu.edu/sbk00.htm(Online book)
3. www.bmj.bmjournals.com/collections/statsbk/index.shtml
4. www.statweb.calpoly.edu/bchance/stat-stuff.html
5. www.amstat.org/publications/jse/jse-data-archive.html (International journal on teaching and learning of statistics)
6. www.amstat.org/publications/chance (Chance magazine)
7. www.statsci.org/datasets.html (Data sets)
8. www.math.uah.edu/stat (Virtual laboratories in Statistics)
9. www.amstat.org/publications/stats (STATS : the magazine for students of Statistics)
10. www.stat.ucla.edu/cases (Case studies in Statistics).
11. www.statsoft.com
12. www.statistics.com
13. www.indiastat.com
14. www.unstat.un.org
15. www.stat.stanford.edu
16. www.statpages.net
17. www.wto.org
18. www.censusindia.gov.in
19. www.mospi.nic.in
20. www.statisticsofindia.in

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Jalgaon



S. Y. B. Sc

(Semester III & IV)

Syllabus of **Geography**

(Under the Faculty of Science)

Choice Based Credit System (CBCS)

With effect from June 2019

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Equivalence courses for S.Y.B.Sc. Geography Students

S.Y.B.Sc Geography (Old Courses)	New Syllabus of S.Y.B.Sc. Geography W.E.F. June 2019
Gg: 231 Sem. III Paper I- Environmental Geography - I	Gg: 301 (DSC) Sem. III Paper I - Environmental Geography
Gg: 232 Sem. III Paper II- Physical Geography of India	Gg: 302 (DSC) Sem. III Paper II - Physical Geography of Maharashtra
Gg: 233 Sem. III Paper III- Practical Geography (Topographical Maps, Weather Instrument, Maps and Images)	Gg: 303(DSC) Sem. III (LAB-III) Paper III - Interpretation of Topographical, Weather Maps and Weather Data Analysis
--	Gg: 304 Sem. III SEC I - Regional Planning and Development
Gg: 241 Sem. IV Paper I-Environmental Geography II	Gg: 401(DSC) Sem. IV Paper I - Human Geography
Gg: 242 Sem. IV Paper II-Economic Geography of India	Gg: 402 (DSC) Sem. IV Paper II - Socio - Economic Geography of Maharashtra
Gg: 243 Sem. IV Paper III -Practical Geography (Surveying, Leveling and Excursion/Village Survey Report)	Gg: 403 (DSC) Sem. IV (LAB-IV) Paper III - Surveying and Area Measurement by GPS
--	Gg: 404 Sem. IV SEC II - Field Techniques and Survey based Project Report

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Kavayitri Bahinabai Chaudhari North Maharashtra University,

Jalgaon

Under faculty of Science and Technology

S.Y.B.Sc. SEMESTER-IV

New Syllabus (CBCS Pattern)

(with effect from: June 2019)

Gg. 403 (DSC) [LAB-IV] Paper III: **Surveying and Area Measurement by GPS**

Total Credits – 2

Internal Marks - 40

Total Hours – 30

External Marks – 60

Objectives:

1. To develop the surveying skill among the students.
2. To introduce the students about working and practical utility of GPS.
3. To acquaint the students about the field survey.

Unit No.	Unit	Sub Unit	Hours
1	Surveying	A) Meaning and Definition of Surveying B) Need of Surveying in Geography C) Types of Surveying 1) Plane Surveying 2) Geodetic Surveying D) Methods of Surveying 1) Trigonometric Survey 2) Traverse Survey: Open and Close Traverse	08
2	Plane Table Survey	A) Introduction B) Instruments Used in Plane Table Survey C) Procedure in Plane Table Survey D) Methods of Plane Table Survey 1) Radiation Method 2) Intersection Method F) Conversion of Area in Different Units- (Hectare and Acre to Sq. Feet and Sq. Meters)	22
3	GPS Survey	A) Introduction and Components of GPS B) Applications of GPS C) Procedure of GPS Survey D) Survey Using GPS 1) Survey of Given Area 2) Preparation of Layout 3) Measurement of Surveyed Area	18
4	Excursion or Village Survey	Visit to a Place of Geographical Interest or Village Survey Students Should Submit a Field Report at the Time of Semester Examination.	12

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Weightage of Marks

Unit No.	Unit	Weightage of Marks
1	Surveying	05
2	Plane Table Survey	20
3	GPS Survey	15
4	Excursion or Village Survey	10
	Viva -voce	10
	Total (University Level)	60
	Total (College Level)	40

Note: The educational tour or village survey should be conducted and organized by the directions of Maharashtra Govt. rules and regulations.

Reference Books:-

- 1). Kanetkar T.P. and Kulkarni S.V. (1983), Surveying and Levelling (Part I and II), Pune Vidyarthi Gruha Prakashan, Pune.
- 2) Monkhouse, F.X.J. & Wilkinson, H.R.(1989): Maps & Diagrams, B.I Publications, Bombay.
- 3). Mishra, R.P and Ramesh A. (2000): Fundamental of Cartography, Concept Publishing Company, New Delhi.
- 4) Robinson, A.H. & Sleep, R.D.(1969): Elements of Practical Geography, New York, John Wiley
- 5) Singh Gopal (1996): Map Work and Practical Geography, Vikas Publishing House Pvt. Ltd., New Delhi.
- 6) Singh, R.C. and Dutta (1993): Elements of Practical Geography, Kalyani Publications, New Delhi.
- 7) Singh, Lekhraj & Singh Raghunandan (1973): Map work and Practical, Central Book Depot. Allahabad.
- 8) Singh, R.L. and Singh, R.P.B. (1997): Elements of Practical Geography, Kalyani Publishers, New Delhi.
- 9) Sing, R.L. and Kanaujia L.R.S.(1963): Map Work and Practical Geography, Allahabad Central Book Depot.

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**Kavayitri Bahinabai Chaudhari
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S. Y. B.A

(Semester III & IV)

Syllabus of Geography

(Under the Faculty of Science)

Choice Based Credit System (CBCS)

With effect from June-2019

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Structure of S.Y.B.A. under CBCS pattern- Geography w.e.f. June-2019

Semester	Discipline Specific Core Courses DSC	Ability Enhancement Compulsory Course AEC	Skill Enhancement Course SEC	Discipline Specific Elective Courses DSE	Generic Grade GG
III Credits: 18 (07 Papers)	Compulsory English (Credits 03) MIL 1 (Credits 03) DSC1 C (Credits 02)** DSC 2 C (Credits 02)**	-----	SEC 1 (Credits 02)	DSE 1 A (Credits 03) DSE 2 A (Credits 03)	-----
IV Credits: 20 (08 Papers)	Compulsory English (Credits 03) MIL 2 (Credits 03) DSC 1 D (Credits 02)** DSC 2 D (Credits 02)** DSC3 D (Credits 02)*	-----	SEC 2 (Credits 02)	DSE 1 B (Credits 03) DSE 2 B (Credits 03)	-----

Gg. 231 (DSC) Sem. III General Cartography (DSC1 C)

Gg. 241 (DSC) Sem. IV Human Geography (DSC1 D)

Gg. 232 (DSE 1 A) Sem. III Geography of Tourism

Gg. 242 (DSE 1 B) Sem. IV Geography of India

Gg. 233 (DSE 2 A) Sem. III Practical Geography (Scale and Map Projection)

Gg. 243 (DSE 2 B) Sem. IV Practical Geography (Surveying)

Gg. 234 (SEC 1) Sem. III Regional Planning and Development

Gg. 244 (SEC 2) Sem. IV Remote Sensing and GPS Based Project Report

Gg. 245 (DSC 3 D) Sem. IV Minor Study Project

In semester IV, DSC 3 D will be Minor Study Project of DSE 1 B and 2 B (Papers of Special Subject)

* In Sem. IV, DSC 3D will be Minor Study Project of DSE 1 B & 2 B (Papers of specific subject)

** For all other DSC Papers there will be 01 Credit for Practical. (01 Credits of Practical= 02 Hours)

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Kayayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Under faculty of Science and Technology

S.Y.B.A. SEMESTER- IV

New Syllabus (CBCS Pattern)

(with effect from: June 2019)

Gg. 243 (DSE 2 B): PRACTICAL GEOGRAPHY

(Surveying)

(Work load – 06 Periods per week per batch of 12 students)

Total Credits – 3.

Internal Marks - 40

Total Clock Hours – 90

External Marks – 60

Objectives

1. To acquire knowledge of survey language and sense of technique of surveying.
2. To know the scale and distance of surveying.
3. To know how to draw layout by surveying of region.
4. To acquaint the students with basic knowledge and technique of ground survey.
5. To acquire the knowledge of survey instruments.
6. To provide basic information about mechanism of survey instruments.
7. To acquaint the knowledge how to use survey instruments.
8. To know the importance of surveying and survey instruments.

Unit	Topic	Sub-Topic	Hours
1.	Introduction to Surveying	A) Introduction to Surveying: Definitions B) Basic principles of surveying. C) Types of Survey: a) Plane Survey b) Geodetic Survey D) Classification of Survey: a) According to purpose: 1) Topographical 2) Cadastral 3) Geodetic 4) Engineering 5) Railway 6) Military b) According to instruments used: 1) Chain or Tape Survey 2) Compass Survey 3) Levelling Survey 4) Theodolite Survey E) Various Methods of deciding North direction: True, Magnetic and Grid North.	30

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2.	Plane Table Survey	A) Plane Table Survey. B) Necessary Equipments of Plane Table Survey: 1) The plane table with a tripod stand 2) Alidade 3) Chain or Tape 4) Spirit level 5) Trough Compass 6) Ranging Rods 7) Plumb bob 8) Drawing essential: Paper, pencil, rubber, drawing pins, pencil, sharpener, scale etc. C) Methods of Plane Table Survey: 1) Radiation Method 2) Intersection Method D) Advantages and Disadvantages of Plane Table Survey. E) At Least Experiment of Actual Measurement of Piece of Land or Ground.	40
3.	Study Tour/ Village Survey	Tour / Excursion or Village Survey Report	20

Weightage of Marks

Unit No	Weightage
1.	15
2	25
3	20
Total	60

University Assessment (U.A)	60
College Assessment (C.A)	40
Total Marks	100

Internal Practical Test Exam.

- 1) Attendance and Behavioral: 10 Marks
- 2) Internal Test : 30 Marks

Total : 40 Marks

Note: The educational tour or village survey should be conduct and organized by the directions of Maharashtra Govt. rules and regulations.

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Choice Based Credit System (CBCS)

Syllabus for T.Y.B. A. (Geography)

(Under the Faculty of Science and Technology)

(Since 2020-2021)

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Details of CBCS Structure for T.Y.B.A Geography
(With Effect from June 2020)

Subject Code	Semester	Title of Subject	CBCS Structure Code	Credit Point	Total Clock Hours
Gg.351 (G-3)	V	Environmental Geography	DSC 1E	03	45
Gg . 361 (G-3)	VI	Population Geography	DSC 1F	03	45
Gg. 352 (S-3)	V	Economic Geography	DSE 3A	03	45
Gg. 362 (S-3)	VI	Political Geography	DSE 3B	03	45
Gg. 353 (S-4)	V	Practical in Human Geography and Geo-statistics	DSE 4A	03	90
Gg. 363 (S-4)	VI	Practical in Physical Geography	DSE 4B	03	90
Gg. 354 (SEC of Geography)	V	Field Technique and Introduction to Project Report	SEC 3	02	30
Gg. 364 (SEC of Geography)	VI	Geographical Information System	SEC 4	02	30
Gg. 355 (GE of Geography)	V	Disaster Risk Reduction	GE 1A	03	45
Gg.365 (GE of Geography)	VI	Sustainability And Development	GE 1B	03	45

Weightages of Marks	
University Assessment	60
College Assessment	40
Total Marks	100

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Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: VI

Gg. 363 (DSE 4B) **Practical in Physical Geography**

(Work load - 06 Periods Per Week Per Batch of 12 Students)

Total Marks: 60

Credit Points: 03

Total Clock Hours: 90

Objectives:

1. To introduce the students with SOI toposheets and to acquire the knowledge of toposheet Reading / interpretation.
2. To acquaint the students with IMD weather maps and to gain the knowledge of weather map reading/ interpretation.

Sr. No.	Unit	Sub Unit	Clock Hours
1	Elements of Topographical Map Reading	1.1 Arrangement of Toposheet On Map of India i) Indexing of Topographical Map 1.2 Marginal Information and Grid References i) Marginal information ii) Grid reference: Four and six figure . 1.3 Conventional Signs and Symbols on Indian Topographical Map	25
2	Interpretation of SOI Toposheets and Drawing of profiles	2.1 Relief Features By Contours a) Conical Hill b) Plateau c) Ridge d) Gorge e) U Shaped Valley f) V Shaped Valley g) Waterfall Slopes : Concave and Convex Slopes , Gentle and Steep Slopes, Terraced Slope. 2.2 Map Interpretation: Interpretation of Topographical Maps (Minimum any two of the following). i) Mountainous/Hilly Region ii) Plateau Region iii) Plain Region 2.3 Profiles:- Drawing of Longitudinal Profile, Cross Profile.	30
3	Interpretation of I.M.D Weather Maps	3.1 Introduction to I.M.D. Weather map 3.2 Signs and Symbols Used in the I. M. D. Weather Map. 3.3 Isobaric Patterns:	25

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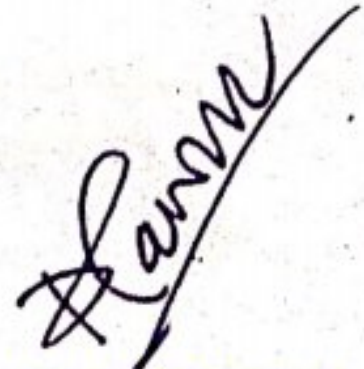
		i) Cyclone ii) Anti-Cyclone iii) Trough of low pressure iv) Wedge/Ridge v) Col vi) Secondary depression 3.4 Study and Interpretation of Weather Maps of Following Seasons . (Minimum any two of the following). i) The Monsoon Season ii) The Winter Season iii) The Summer Season	
4	Study Tour/Village Survey	Preparation of Green Audit Report of Your College or Any Place/Tour Report/ Village Survey and Preparation of Journal	10

Note : The educational tour / Village Survey / visit to any place should be conducted and organized by the direction of Maharashtra Govt. rules and regulations and prior permission of college authority.

Weightages of Marks	
Units	Marks
1	15
2	10
3	15
4	10
Journal and Viva Voce	10
University Assessment	60
College Assessment	40

References:

- 1 Singh, R. L. and Singh R.P.B. (1972): Elements of Practical Geography; Kalyani Publication.
- 2 Khan, MD.Z.A. (1998): Text Book of Practical Geography: Concept Publishing Company.
- 3 Monkhouse F.J. and Wilkinson. H.R. (1971): Maps and Diagrams B.I. publications private limited, New Delhi.
- 4 Ahmed, I. (1994): Practical Geography, Jawahar Publishers and Distributors, New Delhi.
- 5 Sarkar, A. (1997): Practical Geography: A systematic approach, Orient Longman Ltd, Hyderabad.
- 6 Singh, Gopal, (1998): Map Work and Practical Geography.


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Affiliated Colleges

MASTER OF SCIENCE in Computer Science
[M. Sc. (Computer Science)]

Syllabus

[under CBCS]

Faculty of Science and Technology

With effect from 2021-22

MASTER OF SCIENCE in Computer Science

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Msc(Computer Science), Affiliated Colleges Syllabus, KBCNMU, Jalgaon

Semester IV

Course Code	Course Type	Title of the Course	Contact Hours/Week			Distribution of Marks for Examination						Credits
			Th(L)	Pr	Total	Internal		External		Total		
						Th	Pr	Th	Pr	Th	Pr	
CS-401	Core	Natural Language Processing	04	-	04	40	-	60	-	100	-	04
CS-402	Core	Data Warehousing and Data Mining (DWDM)	04	-	04	40	-	60	-	100	-	04
CS-403(A)/(B)/(C)	Elective	Choose one from CS-403(A), CS-403(B) and CS-403(C)	04	-	04	40	-	60	-	100	-	04
CS LAB-VII	Core	Data Warehousing and Data Mining (DWDM)	-	04	04	-	40	-	60	-	100	04
AC-401 (A)/(B)/(C)/(D)	Elective Audit Course	Choose one out of four (AC-401 (A)/(B)/(C)/(D)) (Technology + Value added course)	-	02	02	-	100	-	-	-	100	02
Mini Project	Core	Mini Project									200	06

List of Elective Courses to be offered in Semester-IV:

CS-403(A) Optimization of Algorithm CS-403(B) Machine Learning CS-403(C) Advanced Network Programming

List of Elective Audit Courses to be offered in Semester-VI:

AC-401 (A) : Human Rights AC-401 (B) : Current Affairs or Research Methodology
 AC-401 (C) : Seminar plus Review AC-401 (D) : Intellectual Property Rights(IPR)

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Msc(Computer Science),Affiliated Colleges Syllabus, KBCNMU, Jalgaon

Course Code: CS LAB-VII

LAB Data Warehousing and Data Mining(DWDM)

Total Marks: 100

Course Objectives:

- To create awareness of how enterprise can organize and analyze large amounts of data by creating a Data Warehouse.

DWDM Assignments:

WEKA : Data processing in WEKA

Classification algorithms: decision tree classification, naïve Bayesian classification, a brief introduction to other classifiers

Clustering algorithms: methods to cluster continuous data, methods to cluster categorical data

Association Mining: Apriori algorithm

Course Outcomes:

- Organize strategic data in an enterprise and build a data Warehouse.

Course Code: CS-401

Mini Project Guidelines

Total Marks: 200

Course Objectives:

- To provide comprehensive learning platform to students where they can enhance their employ ability skills and become job ready along with real corporate exposure.
- To enhance students' knowledge in one technology.
- To increase self-confidence of students and helps in finding their own proficiency.
- To cultivate student's leadership ability and responsibility to perform or execute the given task.
- To provide learners hands on practice within a real job situation.

Six credits shall be awarded to the Mini Project course, which will commence in the IVth Semester and the final work and report will be completed at the end of IVth Semester of M. Sc. (Computer Science). The student is expected to work on software development project. The project work should have coding part. Student will have to submit the bound project report in university prescribed format at the end of the semester. Student will have to appear for Project Viva-voce and the marks and the credits will be allotted at the end of IVth semester of M. Sc. (Computer Science).

Course Outcomes:

- Capability to acquire and apply fundamental principles of Computers Science.
- Become master in one's specialized technology.
- Become updated with all the latest changes in technological world.
- Ability to communicate efficiently.
- Knack to be a multi-skilled Computer Science professional with good technical knowledge, management, leadership and entrepreneurship skills.



M.Sc.(Computer Science), Affiliated Colleges Syllabus, KBCNMU, Jalgaon

- Ability to identify, formulate and model problems and find engineering solution based on a systems approach.
- Capability and enthusiasm for self-improvement through continuous professional development and life-long learning

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Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon

Affiliated Colleges

Master of Science in Information Technology
[M. Sc.(Information Technology)]
Syllabus

Faculty of Science and Technology

With effect from July – 2021-22

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School of Computer Sciences, KBCNMU, Jalgaon

Semester IV

Course Code	Course Type	Title of the Course	Contact Hours/Week			Distribution of Marks for Examination				Credits		
			Th(L)	Pr	Total	Internal		External		Total		
						Th	Pr	Th	Pr	Th	Pr	
CS-401	Core	Python Programming	04	-	04	40	-	60	-	100	-	04
CS-402	Core	Data Warehousing and Data Mining (DWDM)	04	-	04	40	-	60	-	100	-	04
CS-403(A)/(B)/(C)	Elective	Choose one from CS-404(A), CS-404(B) and CS-404(C)	04	-	04	40	-	60	-	100	-	04
CS LAB-V	Core	Data Warehousing and Data Mining (DWDM)	-	04	04	-	40	-	60	-	100	04
AC-401 (A)/(B)/(C)/(D)	Elective Audit Course	Choose one out of four (AC-401 (A)/(B)/(C)/(D)) (Technology + Value added course)	-	02	02	-	10	0	-	-	100	02
Mini Project	Core	Mini Project*									200	08

List of Elective Courses to be offered in Semester-IV:

CS-403(A) Natural Language Processing CS-403(B) Machine Learning CS-403(C) Optimization of Algorithm

List of Elective Audit Courses to be offered in Semester-VI:

AC-401 (A) : Human Rights AC-401 (B) : Current Affairs
AC-401 (C) : Seminar plus Review AC-401 (D) : Intellectual Property Rights(IPR)

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School of Computer Sciences, KBCNMU, Jalgaon

Course Code: IT-401

Mini Project

Total Marks: 200

Course Objectives:

- To provide comprehensive learning platform to students where they can enhance their employ ability skills and become job ready along with real corporate exposure.
- To enhance students' knowledge in one particular technology.
- To Increase self-confidence of students and helps in finding their own proficiency.
- To cultivate student's leadership ability and responsibility to perform or execute the given task.
- To provide learners hands on practice within a real job situation.

Twelve credits shall be awarded to the Industrial Training/Project course, which will commence in the IVth Semester and the final work and report will be completed at the end of IVth Semester of M.Sc.(IT) course. The student is expected to work on software development project. The project work should have coding part. Student will have to submit the bound project report in university prescribed format at the end of the semester. Student will have to appear for Project Viva-voce and the marks and the credits will be allotted at the end of IVth semester of M.Sc.(IT) course.

Course Outcomes:

- Capability to acquire and apply fundamental principles of Computers and information technology.
- Become master in one's specialized technology.
- Become updated with all the latest changes in technological world.
- Ability to communicate efficiently.
- Knack to be a multi-skilled IT professional with good technical knowledge, management, leadership and entrepreneurship skills.
- Ability to identify, formulate and model problems and find engineering solution based on a systems approach.

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KAVAYITRI BAHINABAI CHAUDHARI
NORTH MAHARASHTRA UNIVERSITY,
JALGAON

Academic Curriculum
(For Affiliated Colleges of KBCNMU)

MASTER OF SCIENCE

In

ORGANIC CHEMISTRY

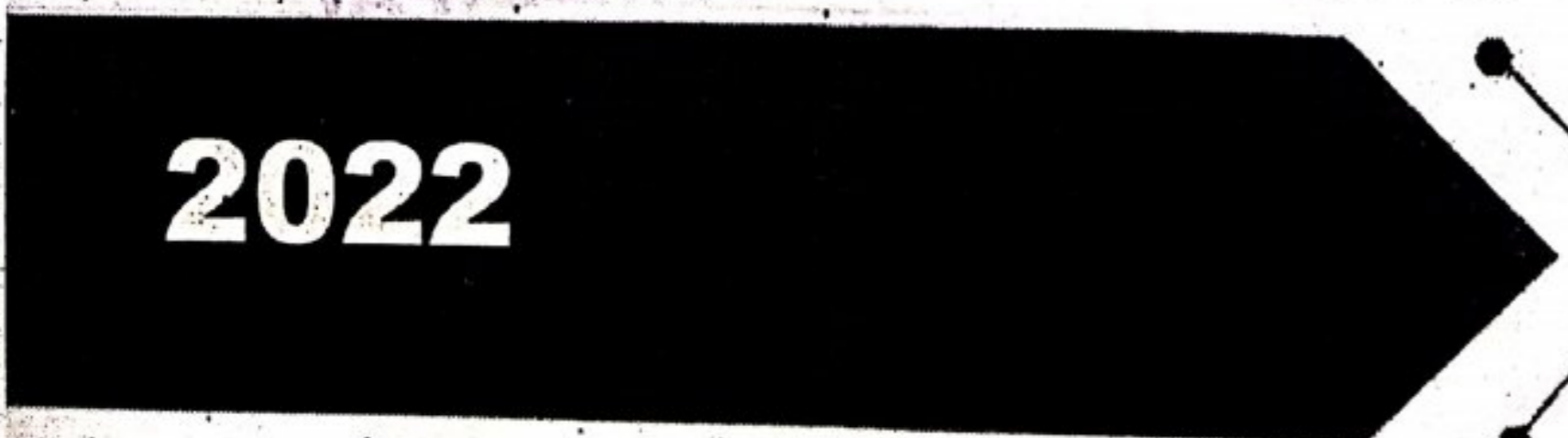
PART- II

(Semester III and IV)

Choice Based Credit System, 60:40 Pattern
(Outcome Based Curriculum)

As per UGC Guidelines

w. e. f. 2022-23



2022

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Wadi Bhokar Road, Dhule.



Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon
M. Sc. Part-II Organic Chemistry (Sem-III and IV)
Choice Based Credit System (Outcome Based Curriculum)

Semester-III

Course Code	Course Type	Title of the Course	Contact hours/week			Distribution of Marks for Examination						Credits
						Internal		External		Total		
			Th	Pr	Total	Th	Pr	Th	Pr	Th	Pr	
CH-350	Core	Organic Reaction Mechanism	04	--	04	40	--	60	--	100	--	04
CH-351	Core	Spectroscopic Methods in Structure Determination	04	--	04	40	--	60	--	100	--	04
CH-352	Core	Organic Stereo Chemistry	04	--	04	40	--	60	--	100	--	04
CH-353	Elective	Choose one out of two CH-353 A/B (A) Heterocyclic Chemistry (B) Green Chemistry	04	--	04	40	--	60	--	100	--	04
AC-301 (A)/ (B)/(C)/(D)	Audit Course	Choose one out of four (AC-301 A/B/C/D) (Technology + Value Added Course)	02	--	02	100	--	--	--	100	--	02

List of Audit courses to be offered in Semester-III:

AC-301 (A): Computer Skills

AC-301 (C): Molecular Docking

AC-301 (B): Cyber Security

AC-301 (D): Technical Report Writing

Semester-IV

Course Code	Course Type	Title of the Course	Contact hours/week			Distribution of Marks for Examination						Credits
						Internal		External		Total		
			Th	Pr	Total	Th	Pr	Th	Pr	Th	Pr	
CH-450	Core	Chemistry of Natural Products	04	--	04	40	--	60	--	100	--	04
CH-451	Core	Synthetic Methods in Organic Chemistry	04	--	04	40	--	60	--	100	--	04
CH-452	Elective	Choose one out of two CH-452 A/B (A) Drug Chemistry (B) Applied Organic Chemistry	04	--	04	40	--	60	--	100	--	04
*CH-O-2	Core Skill base	Organic Chemistry Practical Course-II	--	12	12	--	40	--	60	--	100	06
*CH-O-3	Core Skill base	Organic Chemistry Practical Course-III	--	12	12	--	40	--	60	--	100	06
*CH-O-4	Core Skill base	A Short Research Project	--	12	12	--	40	--	60	--	100	06

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(A)/ (B)/(C)/ (D)	Audit Course	Choose one out of four (AC-401 A/B/C/D) (Professional & Social + Value Added Course)	02	--	02	100	--	--	--	100	--	02
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* To be started from Semester-III & evaluated at the end of Semester-IV

List of Audit courses to be offered in Semester-IV:

AC-401 (A): Human Rights
AC-401 (C): Current Affairs

AC-401 (B): Seminar on Review of Research Paper
AC-401 (D): Intellectual Property Rights

KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON

Syllabus for M.Sc. Part-II Organic Chemistry
(Semester - III & IV) (With Effect from 2022-23)

Course Structure for Second Year

The following will be the structure for revised syllabus from June 2022 for Semester III and Semester IV.

Course Code	Course Type	Title of the Course
SEMESTER - III		
CH-350	Core	Organic Reaction Mechanism
CH-351	Core	Spectroscopic Methods in Structure Determination
CH-352	Core	Organic Stereochemistry
CH-353	Elective	Choose one out of four (CH-353 A/B/C/D) (A) Heterocyclic Chemistry (B) Green Chemistry
AC-301 (A)/(B)/(C)/(D)	Audit Course	Choose one out of four (AC-301 A/B/C/D) (Technology + Value Added Course) AC-301 (A): Computer Skills AC-301 (B): Cyber Security AC-301 (C): Molecular Docking AC-301 (D): Technical Report Writing
SEMESTER - IV		
CH-450	Core	Chemistry of Natural Products
CH-451	Core	Synthetic Methods in Organic Chemistry
CH-452	Elective	Drug Chemistry
*CH-O-2	Core Skill base	Organic Chemistry Practical Course-II
*CH-O-3	Core Skill base	Organic Chemistry Practical Course-III
*CH-O-4	Core Skill base	A Short Research Project
AC-401 (A)/(B)/(C)/(D)	Audit Course	Choose one out of four (AC-401/402/403/404) (Professional & Social + Value Added Course) AC-401 (A): Human Rights AC-401 (B): Seminar on Review of Research AC-401 (C): Current Affairs AC-401 (D): Intellectual Property Rights

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CH-O-4: A Short Research Project

(180Hrs, 100 Marks and 6 Credits)

Course Objectives:

CO-1. To make students familiarize themselves with the techniques such as synthesis, isolation, purification and characterization/analysis etc.

CO-2. To introduce students on how to generate new ideas based on literature survey and their Execution.

CO-3. To foster the self-confidence amongst the students to think and execute ideas Independently.

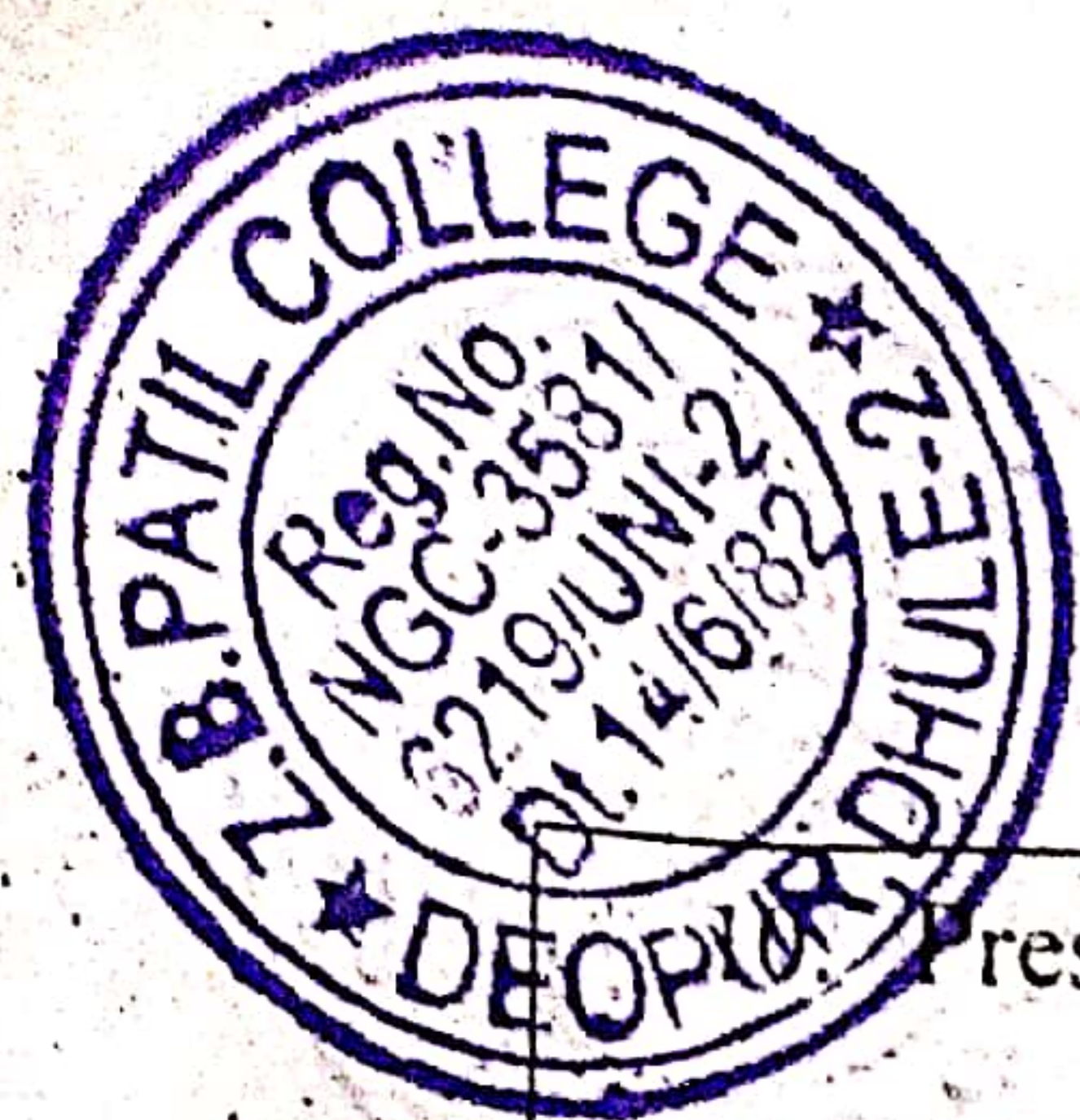
The project is allotted during the third semester. The students will get an opportunity to become a part of ongoing research activities in the respective supervisor's laboratory. This should make them familiar with the literature survey and the fundamental understanding of how to devise research methodology. It is expected that the student should learn the synthesis, isolation, purification and characterization techniques, whatever applicable for their projects. Students whose projects are dependent on the instruments are expected to know SOP and their working principles. Full flexibility is given to the student in identifying the project depending on the resources and infrastructure available in the host organization. It is recommended to work on multidisciplinary projects but not mandatory. In any case, not more than 2-3 students should involve in the same project.

The systematic approach towards the execution of the project should be as follows:

1. Selection of topic relevant to priority areas of chemistry and allied sciences
2. Literature survey and devising research methodology based on the gaps in the literature
3. Good laboratory practices: Safety, MSDS, disposal of chemical waste etc.
4. Execution of the project by designing and performing suitable experiments
5. Interpretation of results and drawing important conclusions
6. To prepare a PowerPoint presentation using modern ICT tools
7. Students should present their research work in Avishkar/Webinars/Conferences
8. Maintaining lab notebooks and writing monthly progress report
9. Writing a dissertation with following components in a given order: Title of the Project, Certificates, Acknowledgement, Abstract and Keywords, Contents, Introduction, Literature, Aim of the Project, Materials and Methods, Results and Discussion, Conclusions and Future Perspectives, Contributions, Bibliography and References. Total three bound copies of the dissertation should be prepared (library, guide and student: each one copy). Student should note that plagiarism is strictly prohibited. Beside writing dissertation, students should write a manuscript/patent if the results obtained are worthy of publication.

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Presentation during the university examination

11. The complete tenure of research project should be of one year. It should start at the third semester and will be end by the semester fourth.
12. Student should submit two progress report within the span of the project.
13. Student should be encouraged for applied and contemporary research work.
14. Weekly two days should be allotted to research project in a regular time table.
15. Each research group should not have more than four students.
16. Each research group should have different research topic

It highly recommended that the students should apply for the Summer Research Fellowship Programmes initiated by Science Academies of India - IAS, INSA, NASI. Similarly, there exist several other summer internship opportunities in the national institutes, reputed universities and industries. Students should explore these possibilities immediately after the completion of the second semester (M. Sc., Part - 1) meaning that applications should be sent much earlier. The exposure gained during the summer internship should build enough confidence amongst students to identify the right research project and its execution.

Examination Assessment (100 Marks):

Internal Examination (Internal Assessment) - 40 marks:

Activity	Marks
Submission of progress reports signed by supervisor (at least 2 reports, 05 marks per report)	10
Outline of research work: - literature collected, experiment planning and design	08
Experimental work performed	08
Subject/topic related one workshop/course/instrumentation training (online/offline),	10
Regular attendance maintained by Research Supervisor	04

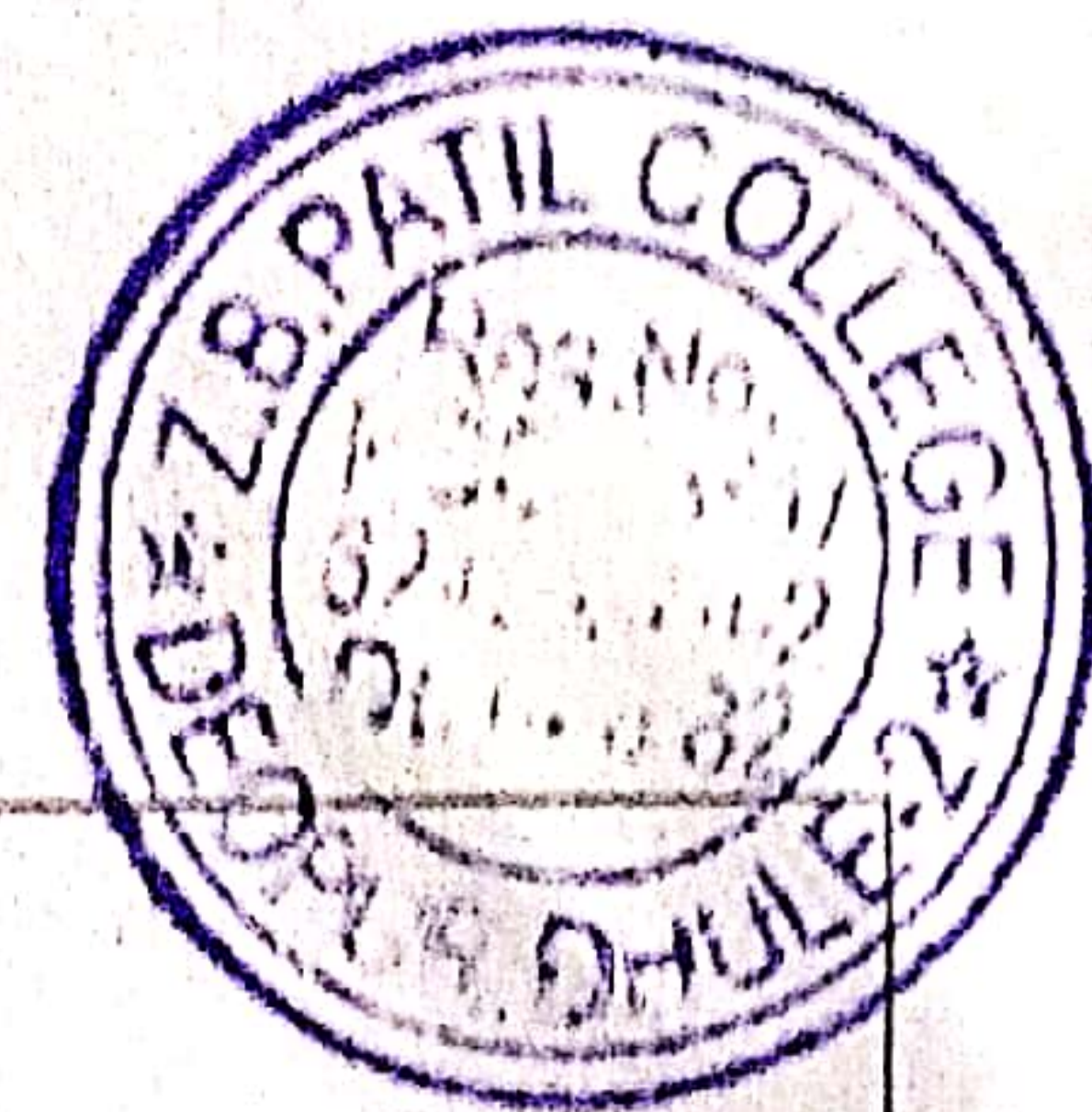
External Examination (External Assessment) - 60 marks:

Activity	Marks
Selection of topic of project work	05
Literature review	05
Characterization of intermediates / products	10
Overall quality of dissertation	10
Power point presentation	15
Oral discussion	10
Conference / Industrial Visit / Avishkar Participation	05

Suggested readings: Reference Books/Reviews/Journal Papers as suggested by the supervisor

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Course Outcomes (COs):

Upon the completion of course, the student should be able:

CO No.	CO	Cognitive level
1	To generate new research ideas based on the comprehensive literature survey	3
2	To acquire skill to execute the research project independently	2
3	To expertise in synthesis techniques and execution of research ideas would make the student quickly employable; either in industries or in academia for pursuing higher studies	4

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