

R. C. Patel Arts, Commerce and Science College

Shirpur-425405, Karvand Naka, Dist.- Dhule (Maharashtra)

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Affiliated to: K. B. C. North Maharashtra University, Jalgaon-425001

Self Study Report (SSR): 2024 (4th Cycle)



Criteria - 2
Teaching- Learning and Evaluation

Key Indicator - 2.3 Teaching- Learning Process



Metric No. - 2.3.1 (QIM)

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Submitted to

National Assessment and Accreditation Council, Bangalore



R. C. Patel Arts, Commerce and Science College Hon. Bhupeshbhai Patel

Karvand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

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President

Principal

Dr. D. R. Patil

Date: 15/06/2024

Declaration

This is to declare that, the information, reports, true copies of the supporting documents, numerical data etc. submitted in these files is verified by Internal Quality Assurance Cell (IQAC) and it is correct as per the office record.

This declaration is for the purpose of NAAC accreditation of the HEI for the 4th cycle assessment period 2018-19 to 2022-23.

Place: Shirpur

Date: 15/06/2024

Dr. Sandip P. Patil **IQAC Co-ordinator**

IQAC Coordinator R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur, Dist.-Dhule (M.S.) 425405

R. C. Patel Educational

Dr. D. R. Patil **IQAC Chairman & Principal**

PRINCIPAL R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur, Dist.-Dhule (M.S.) 425405

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R. C. Patel Arts, Commerce and Science College Shirpur

Student Centric Learning (Pedagogies Used)

Department of Physics & Electronics

Pedagogy used for Teaching -

Participatory Learning, Classroom Teaching, Interactive Sessions and Cutting-Edge Practice, Blended Learning, Flipped classroom.

Tools and Materials used-

- a. Blackboard or whiteboard
- b. Projectors.
- c. Computers for practical demonstrations
- d. PPTs.
- e. Teaching and learning resources- Reference Books /Text books, other references, films, radio programs, multimedia, digital learning resources including video, audio, animation and images, expert lectures
- f. Software used- MS Visio, Programming software, etc.

Description of the Methods -

- a. Teaching methods are the broader techniques used to help students achieve learning outcomes, while activities are the different ways of implementing these methods.
- b. Practical Work: all teaching and learning activities in the sciences in which thestudent is actively involved and that allow the mobilization of science processes skills and scientific knowledge and that may be materialized by paper and pencilactivities or observing and/or manipulating materials.

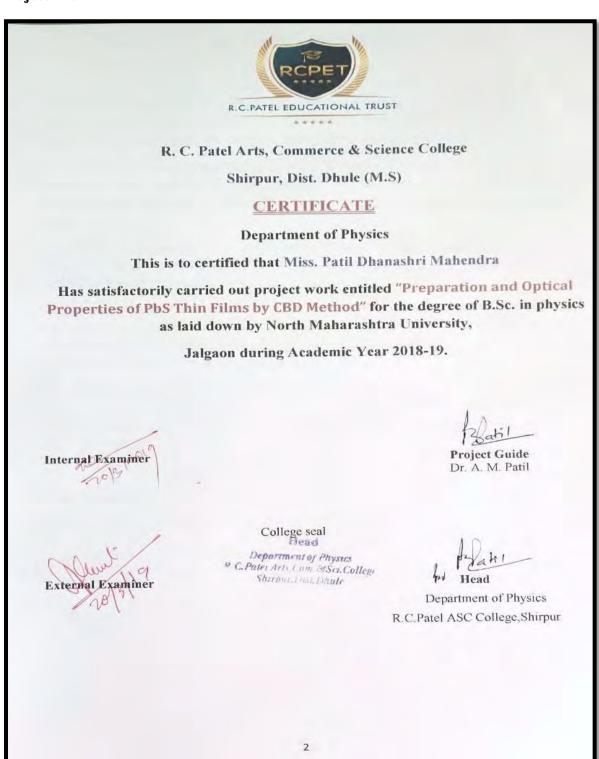
Outcomes (Learning Experience) -

- 1: A strong sense of identity
- 2: Connection to and contribution with their world.
- 3: A strong sense of wellbeing.
- 4: Confident and involved learners.
- 5: Soft skills.
- 6: Learning Computers & Management allows students to learn about the Programming concepts and gain skills as logical & critical thinking, problem-solving, management skills.

Experiential Learning

Academic Year	Sr. No.	Method used	Content
2018-19	1.	Project Work	T.Y.B.Sc. and M.Sc. Project Work

Project Work





R. C. Patel Arts, Commerce & Science College

Shirpur, Dist. Dhule (M.S)

CERTIFICATE

Department of Physics

This is to certified that Miss. Bagul Chetana Subhash

Has satisfactorily carried out project work entitled "Preparation and Optical Properties of PbS Thin Films by CBD Method" for the degree of B.Sc. in physics as laid down by North Maharashtra University,

Jalgaon during Academic Year 2018-19.

Internal Examiner

College seal

Head

Project Guide Dr. A. M. Patil

Department Physics
R.C.Patel ASC College, Shirpur

Shirbur, Dw. Dhule

T.Y.B.Sc. Project List 2018-19

Sr. No.	Name of Students	Project Title	Name of Project Guide
1.	Bagul Chetana Subhash	Preparation and optical properties of Pbs Thin films by CBD method	Dr. A. M. Patil
2.	Chaudhari Lokesh Sudhakar	Velocityofsound in various liquid using Ultrasonic Interferometer.	Dr. H. B. Patil
3.	Chavan Harshada Chhotu	Synthesis and optical properties of Cadmium Sulfide Thin films using Chemical bath Deposition method.	Dr. H. B. Patil
4.	Dorik Sonali Bajirao	Synthesis and optical properties of Cadmium Sulfide Thin Films Using Chemical Bath Deposition Method.	Dr. H. B. Patil
5.	Girase Charusmita Umeshsing	Pinhole Diffraction by LASER.	Dr. A. M. Patil
6.	More Darshana Abhiman	Synthesis and Characterization of Silver Nanoparticles.	Dr. H. B. Patil
7.	Patil Bhumika Mahendra	Solar cell Characteristics using Solar Simulator.	Dr. A. M. Patil
8.	Patil Dhanashri Mahendra	Preparation and Optical properties of PbS thin Films by CBD Method.	Dr. A. M. Patil
9.	Patil Dipesh Sambhaji	Velocity of sound in various Liquid using Ultrasonic Interferometer.	Dr. A.M. Patil
10.	Patil Kirtimala Nanasaheb	Synthesis and Characterization of Silver nanoparticle.	Dr. H. B. Patil
11.	Patil Pragati Dagdu	Effect of Dopant Ions on Polyaniline.	Dr. A. M. Patil
12.	Pawar Namrata Sanjay	Synthesis and Characterization of Cds thin films.	Dr. H. B. Patil
13.	Rajput Gayatribai Govindsing	Solar cell Characteristics using Solar Simulator.	Dr. A. M. Patil
14.	Saner Arati Ashok	Synthesis and Characterization of Silver Nanoparticles.	Dr. A. M. Patil
15.	Suryawanshi Priyanka Vijay	Synthesis and Characterization of Pds thin films.	Dr. A. M. Patil

Dr. A. M. Patil HOD



M.Sc. Project List 2018-19

Sr. No.	Name of students	Project Title	Name of Project Guide
1.	Ahirrao Bhagyesh Pradip	Comparative study of C and X Band Microwave Frequencies of Soils.	Dr. A. A. Patil
2.	Bhamare Mayuri Sanjay	Dielectric Properties and Loss of a Material at X-Band Microwave Frequencies.	Dr. H. B. Patil
3.	Bonde Chetana Satish	Atomic Objective Counter	Prof. H. B. Patil
4.	Borse Manoj Bhimrao	Synthesis and Optical Properties of PbxCd1-xS thin films.	Dr. A. A. Patil
5.	Chaudhari Kavita Keshav	Synthesis & optical Properties of Lead Sulfide Thin Films Using Chemical Bath Deposition Method	Dr. A. M. Patil
6.	Chavan Damini Raman	Synthesis and Characterization of PbCdS thin Films.	Dr. A. M. Patil
7.	Dorik Ashwini Ravindra	Synthesis of H ₃ PO ₄ doped polyaniline	Dr. A. M. Patil
8.	Dorik Yogita Shantaram	Synthesis of HCL doped polyaniline	Dr. A. M. Patil
9.	Girase Bhagyashri Prakash	Synthesis and Characterization of CDS Thin films using chemical bath deposition	Dr. H. B. Patil
10.	Girase Shivani Bharatsing	Synthesis and Characterisation of GO PANI and GO-PANI Composite"	Dr. A. M. Patil
11.	Jadhav Neha Rajendra	Automatic Street Light.	Mr. K. M. Sarode
12.	Jadhav Prashant Rajendra	Scattering and Emissive behaviour of solids at C-Band Microwave Frequencies	Mr. K. M. Sarode
13.	Kasar Vrushali Bhanudas	Synthesis of H ₃ PO ₄ doped polyaniline	Dr. A. M. Patil
14.	Mankani Mona Mukesh	Comparative study of C and X Band Microwave Frequencies of Soils.	Dr. A. A. Patil
15.	Manyar Shaikh Danish Shaikh Nayim	Dielectric Properties and Loss of a Material at X-Band Microwave Frequencies.	Dr. A. A. Patil
16.	More Ruchita Hari	Atomic Objective Counter	Dr. A. A. Patil
17.	Patil Meena Jagannath	Synthesis and optical properties of Cadmium sulfide Thin films using Chemical Bath Deposition method.	Dr. H. B. Patil

18.	Patil Roshani	Dielectric and emissive properties of solid at X- band Microwave	Dr. A. A. Patil
Ka	Rajendra	Frequencies.	
19.	Patil Sachin Jagannath	Synthesis of HCL doped Polyaniline	Mr. K. M. Sarode
20.	Patil Shital Ravindra	Study of Photocatalytic activity of	Mr. H. P.
20.	Tutti Sintai Kuvinaia	Zno nanoparticle	Suryawanshi
		Dielectric Behaviour & Scattering	Mr. H. B. Patil
21.	Pawar Runal Rajendra	Coefficient of Material at C-Band	
		Microwave Frequencies	
22.	Saner Yogesh	Synthesis of Fe ₂ O ₃ thin film by using	Dr. A. M. Patil
22.	Bhalchandra	CBD Method.	
	Shaikh Nida Aafreen Raeesoddin	Synthesis of ZnO nanorod array on	Mr. H. P.
23.		spin coated seed layer using	Suryawanshi
	Racesoddiii	hydrothermal method	
	Shimpi Pratibha	Dielectric Behaviour & Scattering	Dr. A. A. Patil
24.	Eknath	Coefficient of Material at C-Band	
	Eknaui	Microwave Frequencies	
25.	Shirsath Murlidhar	Synthesis and Characterisation of	Dr. A. M. Patil
25.	Sitaram	GO PANI and GO-PANI Composite	
26.	Sonawane Jayashri	Synthesis and Optical properties of	Dr. A. M. Patil
۷٥.	Madan	CDS Thin film	
	Yaday Vishakha	ZnO Seed layer Deposition on	Mr. H. P.
27.		Quartz Glass Substrate using Spin	Suryawanshi
	Vijay	Coating Method	



Project Work



Academic Year	Sr. No.	Method used	Content
2019-20	1.	Project Work	T.Y.B.Sc. and M.Sc.

Project Work



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce & Science College

Shirpur, Dist. Dhule(M.S.)

CERTIFICATE

Department of Physics

This is certified that BHAVASAR SAYALI ANIL has satisfactorily carried out project work entitled "Synthesis and Optical Properties of Copper Sulfide" for the degree of B.Sc. in physics as laid down by North Maharashtra University, Jalgaon during Academic Year 2019-20

Project guide

Dr. H.B.Patil

CONTEL ARTOCAL

Head

Department Of Physics

Head

Department Of Physics R.C.Patel Art Commun. & Sci.Cellege Shirpun, J. G. Chule 425 405

College seal

External Examiner

Internal Examiner

Project Work



T.Y.B.Sc. Project List 2019-20

Sr. No.	Name of students	Project Title	Name of Project Guide
1.	Acharya Bhushan Ganesh	Pinhole Diffraction by Laser	Dr. A. A. Patil
2.	Bhadane Bhumika Bhika	Preparation & Optical Properties of PbS Thin Films	Dr. A. M. Patil
3.	Bhadoriya Smita Sanjaysinh	Synthesis & Characterization of Sliver Nanoparticles	Dr. H. B. Patil
4.	Bhavsar Sayali Anil	Synthesis and optical properties of copper sulphide thin films using chemical Bath deposition method.	Dr. H. B. Patil
5.	Chaudhari Tushar Nimba	Synthesis & Characterization of PbCdS by Flux Method	Dr. A. M. Patil
6.	Chavan Ankita Upendra	Synthesis & Optical Properties of Cadmium Sulphide	Dr. A. M. Patil
7.	Chavan Yogita Minesh	Ultrasonic Velocity in Liquid	Dr. H. B. Patil
8.	Deore Rajshree Pralhad	Energy Transformation	Dr. A. A. Patil
9.	Gosavi Damini Kashinathpuri	Velocity of sound in various liquid using Ultrasonic interferometer.	Dr. H. B. Patil
10.	Gosavi Punam Parmeshwar	Preparation & Optical Properties of PbS Thin Films	Dr. A. M. Patil
11.	Gujar Bharati Ravindra	Solar Cell Characteristics Using Solar Simulator	Dr. A. M. Patil
12.	Jadhav Dhanashri Sanjay	Synthesis & Characterization of Sliver Nanoparticles	Dr. H. B. Patil
13.	Koli Yogeshwari Jitendra	Synthesis and optical properties of copper sulphide thin films using chemical Bath deposition method	Dr. H. B. Patil
14.	Mali Jitendra Prabhakar	Synthesis & Characterization of PbCdS by Flux Method	Dr. A. M. Patil
15.	Patil Ashwini Jitendra	Synthesis & Optical Properties of Cadmium Sulphide	Dr. A. M. Patil
16.	Patil Ashwini Nimbaji	Ultrasonic Velocity in Liquid	Dr. H. B. Patil
17.	Patil Dhanashri Ravindra	Energy Transformation	Dr. A. A. Patil
18.	Patil Divya Anil	Laser & its Applications	Dr. A. A. Patil
19.	Patil Harshada Mansaram	Rain Level Sensor	Dr. A. A. Patil
20.	Patil Jagruti Ratilal	Synthesis of H ₂ SO ₄ doped polyaniline	Dr. A. M. Patil
21.	Patil Jayashree Manohar	Velocity of Sound in Various Liquid Using Ultrasonic Interferometer	Dr. H. B. Patil
22.	Patil Krutika Vishvas	Preparation & Optical Properties of PbS Thin Films by CDS Method	Dr. A. M. Patil
23.	Patil Paresh Yogendra	Synthesis and optical properties of Cadmium Sulphide Thin films using	Dr. A. M. Patil

		Chemical bath Deposition method.	
24.	Patil Rita Tukaram	Synthesis and Characterization of Silver Nanoparticles	Dr. H. B. Patil
25.	Patil Sneha Prakash	Effect of Dopant Ions on Polyaniline	Dr. A. A. Patil
26.	Pawara Chetan Shildar	Energy Transformation	Dr. A. A. Patil
27.	Rane Nitin Khushal	Laser & its Applications	Dr. A. A. Patil
28.	Salunkhe Sunita Upendra	Rain Level Sensor	
29.	Sayyad Arzoo Bano Sayyad Zakir	Synthesis of H ₂ SO ₄ doped polyaniline	Dr. A. M. Patil
30.	Sayyad Uzma Parveen Ashfaque Ali	Velocity of Sound in Various Liquid Using Ultrasonic Interferometer	Dr. H. B. Patil
31.	Shimpi Tejswini Ravindra	Preparation & Optical Properties of PbS Thin Films by CDS Method	Dr. A. M. Patil
32.	Sisode Bhavika Dilip	Synthesis and optical properties of Cadmium Sulphide Thin films using Chemical bath Deposition method.	Dr. A. M. Patil
33.	Sonar Kishor Ravindra	Synthesis and Characterization of Silver Nanoparticles	Dr. H. B. Patil
34.	Sonawane Nisha Dhanraj	Effect of Dopant Ions on Polyaniline	Dr. A. A. Patil
35.	Pawara Gendya Kailas	Pinhole diffraction by Laser	Dr. A. A. Patil



M.Sc. Project List 2019-20

Sr. No.	Name of students	Project Title	Name of Project Guide
1.	Ahire Chetan Purushottam	Synthesis & Characterization of PbCdS by Flux Method	Dr. A. M. Patil
2.	Borse Aniket Shekhar	Structural Properties of CdS Solid Solution by Flux Method	Dr. A. M. Patil
3.	Chaudhari Kaveri Ashok	Effect of Dopant Ions on Polyaniline	Mr. K. M. Patil
4.	Chavan Bhakti Mahesh	Synthesis & Characterization of PbS Thin Films	Dr. A. M. Patil
5.	Chavan Pranali Suresh	Polar Photo catalytic Activity of Hydrothermal synthesis of TiO ₂	Mr. K. M. Patil
6.	Danej Shivam Nandkumar	Synthesis & Characterisation of PbCdS Thin Films	Dr. A. M. Patil
7.	Desale Jagruti Sanjay	Synthesis & Characterisation of PbCdS Thin Films	Dr. A. M. Patil
8.	Gosavi Vivek Ravindra	Synthesis of Fe ₂ O ₃ Thin Films by Using CBD Method	Dr. A. M. Patil
9.	Kadam Divyabharati Bhatu	Preparation & Optical Properties of Fe ₂ O ₃ Thin Films by Using CBD Method	Dr. A. M. Patil
10.	Mali Rupali Ananda	Synthesis of Fe ₂ O ₃ Thin Films by Using CBD Method	Dr. A. M. Patil
11.	Mirza Amreen Saba Shakil Baig	Study the Structural Properties of TiO ₂ Nanoparticles by Green Synthesis Method	Dr. A. M. Patil
12.	Patil Mahesh Vilas	Study of Dielectric Properties of Soils at X-Band Microwave Frequencies	Dr. A. A. Patil
13.	Patil Milind Anil	Synthesis & Characterization of PbCdS by Flux Method	Dr. A. M. Patil
14.	Patil Neekita Laxman	Structural Properties of CdS Solid Solution by Flux Method	Dr. A. M. Patil
15.	Patil Priyanka Amrut	Effect of Dopant Ions on Polyaniline	Mr. K. M. Patil
16.	Patil Puja Mangesh	Synthesis & Characterization of PbS Thin Films	Dr. A. M. Patil
17.	Patil Vaibhav Chandrashekhar	Polar Photo catalytic Activity of Hydrothermal synthesis of TiO ₂	Mr. K. M. Patil
18.	Pawar Vaibhavi Ishwar	Synthesis & Characterisation of PbCdS Thin Films	Dr. A. M. Patil
19.	Saner Gayatri Sanjay	Synthesis & Characterisation of PbCdS Thin Films	Dr. A. M. Patil
20.	Savale Priyanka Bapu	Synthesis of Fe ₂ O ₃ Thin Films by Using CBD Method	Dr. A. M. Patil
21.	Shaikh Altaf Hussain Akhtar Hussain	Preparation & Optical Properties of Fe ₂ O ₃ Thin Films by Using CBD	Dr. A. M. Patil

		Method	
22.	Shaikh Saima Kaosar Sk Farooque	Synthesis of Fe ₂ O ₃ Thin Films by Using CBD Method	Dr. A. M. Patil
23.	Sonawane Umesh Santosh	Study the Structural Properties of TiO ₂ Nanoparticles by Green Synthesis Method	Dr. A. M. Patil
24.	Upadhyay Shweta Rameshwar	Study of Dielectric Properties of Soils at X-Band Microwave Frequencies	Dr. A. A. Patil

Department of Physics &



Electronics

Academic Year	Sr. No.	Method used	Content
2020-21	1.	Project Work	T.Y.B.Sc. and M.Sc.

Project Work



T.Y.B.Sc Project List 2020-21

Sr. No	Name of students	Project Title	Name of Project Guide
1.	Aakhadmal Sonali Jivan	Ultrasonic Velocity in liquid	Dr. H. B. Patil
2.	Chaudhari Damini Ashok	Solar Stimulator (Solar Cell Characterization Unit)	Dr. A. M. Patil
3.	Deore Sakshi Nimbajirao	Photo catalytic activity of P25- Tio2 powder for the degradation rate of methylene blue	Dr. A. M. Patil
4.	Gujar Harshada Gopal	ZnO seed layer Deposition on Quartz Glass Substrate using Drop Casting Method	Dr. H. B. Patil
5.	Gujar Rajashree Chhagan	Rain level Sensor	Dr. A. A. Patil
6.	Jain Poonam Pratapmal	Solar cell characteristics using solar stimulator	Dr. A. M. Patil
7.	Karankal Priyanka Naresh	Dielectric behaviour and emission properties of soils at microwave frequencies	Dr. A. A. Patil
8.	Kazi Ataurrehman Ezaz Ahmed	Scattering properties of soils at microwaves frequencies	Dr. A. A. Patil
9.	Patil Kanchan Kantilal	Laser and its application	Dr. A. A. Patil
10.	Patil Nita Kishor	The Hall Effect of (Ge) Crystal	Dr. H. B. Patil
11.	Patil Priyanka Santosh	Around based automatic plant irrigation system	Dr. A. M. Patil
12.	Rajput Karina Chhatrapal	Structural properties of CdS solid solution by flux method	Dr. A. M. Patil
13.	Rajput Ratnadip Premsing	Water Level Indicator	Mr. A.C.Bhavsar
14.	Rajput Vrushalidevi Vijaysing	Synthesis and optical properties of Lead Sulphide Thin Film using CBD method	Dr. A. M. Patil
15.	Shirsath Neha Amrut	Ultrasonic Velocity in liquid	Dr. H. B. Patil
16.	Shirsath Manisha Kailas	Scattering properties of soils at microwaves frequencies	Dr. A. A. Patil
17.	Shirsath Nutan Shravan	Water Level Indicator	Dr. A. M. Patil
18.	Solanki Gayatri Jagadish	Synthesis and characterization of CdS by Flux method	Dr. A. M. Patil
19.	Wagh Mayuri Shashikant	Around based automatic plant irrigation system	Dr. H. B. Patil
20.	Bari Jagruti Parshuram	The Hall Effect of (Ge) Crystal	Dr. H. B. Patil
21.	Bhamare Devendra Vijay	Pinhole diffraction by LASER	Mr.A. C. Bhavsar
22.	Bhavsar Rachana Chandrashekhar	Laser and its application	Mr.A. C. Bhavsar

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23.	Bhavsar Sakshi Chandrashekhar	Synthesis and optical properties of Lead Sulphide Thin Film using CBD method	Dr. A. M. Patil
24.	Borase Umeshwari Bhausaheb	Structural properties of CdS solid solution by flux method	Dr. A. M. Patil
25.	Chaudhari Jayashri Ratilal	Pinhole diffraction by LASER	Mr. A. C. Bhavsar
26.	Chaudhari Neha Rajendra	Synthesis and characterization of PbS by Flux method	Dr. A. M. Patil
27.	Chavan Priyanka Suresh	Synthesis and Characteristics of Silver Nanoparticles	Dr. H. B. Patil
28.	Dhangar Komalika Bhika	Synthesis and characterization of PbS by Flux method	Dr. A. M. Patil
29.	Gavali Priya Rajendra	Solar cell characteristics using solar stimulator	Dr. A. M. Patil
30.	Girase Kalpesh Vijaysing	ZnO seed layer Deposition on Quartz Glass Substrate using Drop Casting Method	Dr. A. M. Patil
31.	Kulkarni Piyusha Ghanshyam	Preparation and Optical properties of PbS thin films by CBD method	Dr. A. M. Patil
32.	Mali Tejaswini Prakash	Velocity of sound in various liquid using Ultrasonic Interferometer	Dr. H. B. Patil
33.	Nikumbh Antara Sunil	Photo catalytic activity of P25- Tio2 powder for the degradation rate of methylene blue	Dr. A. M. Patil
34.	Nikumbh Muktabai Aananda	Synthesis and characterization of Pbs by Flux method	Dr. A. M. Patil
35.	Padmar Jayshree Subhash	Scattering and Emission behaviour of soils at C-Band Microwave Frequencies	Dr. A. A. Patil
36.	Pathak Ankita Anant	Synthesis and Characteristics of Silver Nanoparticles	Dr. H. B. Patil
37.	Patil Chetan Milind	Synthesis of H ₃ PO ₄ doped polyaniline	Dr. A. M. Patil
38.	Patil Pratiksha Anil	Synthesis of ZnO nanorod array on spin coated seed layer using hydrothermal method	Dr. A. M. Patil
39.	Patil Sneha Gulabrao	Preparation and Optical properties of PbS thin films by CBD method	Dr. A. M. Patil
40.	Patil Vaishnavi Uday	Solar Stimulator (Solar Cell Characterization Unit)	Dr. A. M. Patil

41.	Pawara Arvind Radheshyam	Synthesis and characterization of CdS by Flux method	Dr. A. M. Patil
42.	Rajput Jayesh Jitendra	Scattering and Emission behaviour of soils at C-Band Microwave Frequencies	Dr. A. A. Patil
43.	Salunke Dipali Vikram	Velocity of sound in various liquid using Ultrasonic Interferometer	Dr. H. B. Patil
44.	Sonawane Yashshri Gunvantrao	Synthesis of ZnO Nano rod array on spin coated seed layer using hydrothermal method	Dr. A. M. Patil
45.	Vasave Mangesh Ranjeet	Dielectric behaviour and emission properties of soils at microwave frequencies	Dr. A. A. Patil
46.	Wadile Punam Bhagwan	Synthesis of H ₃ PO ₄ doped polyaniline	Dr. A. M. Patil

M.Sc. Project List 2020-21

Sr. No.	Name of student	Ducies 4 Title	Name of Project
Sr. No.	Name of student	Project Title	Guide
1.	Badgujar Shubhangi Dipak	Automatic Street light	Dr. H. B. Patil
2.	Baghwan Awais Yusuf	Ultrasonic Velocity in Liquid	Dr. H. B. Patil
3.	Bagul Chetana Subhash	Synthesis and characterization of Cds Thin films	Dr. A. M. Patil
4.	Chaudhari Lokesh Sudhakar	Synthesis of HCl doped polyaniline	Dr. A. M. Patil
5.	Desale Manjusha Dhananjay	Solar Photo catalytic activity of Hydrothermal synthesis of TiO2	Dr. A. M. Patil
6.	Dorik Sonali Bajirao	Synthesis and Characterization of PbCdS thin films.	Dr. A. M. Patil
7.	Kulkarni Kushal Ramkrushna	Synthesis and optical properties of cadmium sulphide thin films using chemical Bath deposition method	Dr. A. M. Patil
8.	Pardeshi Bhagyashri Bhagwan	Synthesis and Characterization of PbCdS by flux method	Dr. A. M. Patil
9.	Parjane Priyanka Dinkar	Ultrasonic Velocity in Liquid	Dr. H. B. Patil
10.	Patil Dhanashri Mahendra	Structural properties of Cds solid solution by Flux method	Dr. A. M. Patil
11.	Patil Pragati Dagdu	Synthesis and Characterization of PbCdS thin films.	Dr. A. M. Patil
12.	Patil Priti Kailas	Structural properties of Cds solid solution by Flux method	Dr. A. M. Patil
13.	Pawar Namrata Sanjay	Study of Photo catalytic activity of Zno nanoparticle.	Dr. H. B. Patil
14.	Quaxi Saimeen Firdous Mehruzzama	Synthesis and Characterization of PbCdS by flux method	Dr. A. M. Patil
15.	Rajput Gayatribai Govindsing	Study of Photo catalytic activity of Zno nanoparticle	Dr. H. B. Patil
16.	Salunke Leena Milind	Ultrasonic Velocity in Liquid	Dr. H. B. Patil
17.	Shirsath Rahul Ashok	Synthesis and optical properties of cadmium sulphide thin films using	Dr. A. M. Patil

		chemical Bath deposition method	
18.	Sonar Lokesh Dagdu	Distance and Size Measuring by Image	Dr. A. M. Patil
19.	Sonawane Priyanka Bhikaji	Quantum Entanglement "Spooky Action at a Distance"	Dr. A. M. Patil
20.	Suryawanshi Harshali Deepak	Solar Photo catalytic activity of Hydrothermal synthesis of TiO2	Dr. A. M. Patil
21.	Tayde Shital Daulat	Study of Photo catalytic activity of Zno nanoparticle.	Dr. H. B. Patil
22.	Wagh Dhiraj Dnyaneshwar	Synthesis of HCl doped polyaniline	Dr. A. M. Patil
23.	Juveriyatabassumbint Mohammadisrafil	Energy Transformation	Dr. A. M. Patil

Dr. A. M. Patil HOD Department of Physics &

Electronics

Project Work



R. C. Patel Arts, Commerce & Science College

Shirpur, Dist. Dhule.

CERTIFICATE

Department of Physics

This is to certified that Tele Asmita Arun

Has satisfactorily carried out project work entitled "Synthesis

And Structural Properties of GO, PANI and GO-PANI Composite" for the

degree of B.Sc. in physics as laid down by Kaviyatri Bahinabai Chaudhari North Maharashtra University,

Jalgaon during Academic Year 2021-22.

Internal Examiner

External Examiner

Project Guide Dr.A.M.Patil

Head

Department of Physics R.C.Patel ASC College,Shirpur

Project Work



T.Y.B.Sc. Project List 2021-22

Sr. No.	Name of students	Project Title	Name of Project Guide
1.	Savale Shubham Ravindra	Synthesis and Optical properties of Zns thin films	Mr. K. R. Pawar
2.	Patil Madhuri Kailas	Synthesis and optical properties of Lead Sulphide Thin films grown by chemically Bath Deposition Method	Dr. H. B. Patil
3.	Badgujar Komal Bhatu	Synthesis of Fe ₂ O ₃ thin films by CBD Method	Mrs. K. M. Patil
4.	Chaudhari Sonali Ramesh	Synthesis and Optical properties of Fe ₂ O ₃ Thin film	Mrs. K. M. Patil
5.	Gawale Kajal Yashwant	Synthesis and optical properties of Lead Sulphide Thin films grown by chemically Bath Deposition Method	Dr. H. B. Patil
6.	Mali Manisha Mahendra	Synthesis and optical properties of Copper Sulphide Thin films using Chemical Bath Deposition method	Dr. H. B. Patil
7.	Patil Bhagyashri Madhukar	Preparation and optical properties of Fe ₂ O ₃ thin films by using CBD method	Mrs. K.M. Patil
8.	Patil Prajakta Dipak	Synthesis and Optical properties of Fe ₂ O ₃ Thin film	Mrs. K.M. Patil
9.	Patil Puja Ravindra	Synthesis of Fe ₂ O ₃ thin films by CBD Method	Mrs. K.M. Patil
10.	Patil Rajnandini Vilas	Synthesis and Characterisation of Cds By Flux Method	Dr. A. M. Patil
11.	Sonawane Ashwini Gokul	Synthesis and Optical properties of Pbs thin films	Ms. K. R. Pawar
12.	Thakare Ujjwala Pradip	Synthesis and optical properties of Pbs thin films	Ms. K. R. Pawar
13.	Borse Sakshi Kailas	Synthesis and Characterisation of GO PANI and GO-PANI Composite	Dr. A. M. Patil
14.	Mahajan Shubham Dinesh	Synthesis and Characterisation of GO PANI and GO-PANI Composite	Dr. A. M. Patil
15.	Patil Dipika Ashok	Synthesis and optical properties of Lead Sulphide Thin films grown by chemically Bath Deposition Method	Dr. H. B. Patil
16.	Patil Pawan Ravindra	Synthesis and optical properties of Cds thin films	Mr. K. R. Pawar
17.	Patil Pratik Atul	Synthesis and Characterisation of GO PANI and GO-PANI Composite	Dr. A. M. Patil
18.	Patil Priyanka Dilip	Synthesis and Structural Properties of Pbs solid solution Prepared by Flux Method	Dr. A. M. Patil
19.	Patil Tejal Hitendrasin	Synthesis and Structural Properties	Dr. A. M. Patil

		of Pbs solid solution Prepared by	
		Flux Method	
20.	Pawar Vaishanavi Arvind	Synthesis and optical properties of Cadmium sulphide thin films using chemical Bath Deposition method	Dr. H. B. Patil
21.	Rajput Jyoti Kevalsing	Synthesis and Characterisation of Cds By Flux Method	Dr. A. M. Patil
22.	Sonawane Umesh Gokul	Synthesis and Optical properties of Zns thin films	Ms. K. R. Pawar
23.	Tele Asmita Arun	Synthesis and Characterisation of GO PANI and GO-PANI Composite	Dr. A. M. Patil
24.	Tiwari Dinesh Vijaykumar	Synthesis and optical properties of Cds thin films	Ms. K. R. Pawar
25.	Mali Devyani Dnyaneshwar	Synthesis and Characterisation of Cds By Flux Method	Dr. A. M. Patil
26.	Patel Dipmala Babulal	Study of Dielectric Behaviour of a Solid at Microwave Frequencies	Dr. A. A. Patil
27.	Kasar Paresh Ramlal	Single slit diffraction by LASER	Dr. A. M. Patil

M.Sc. project list 2021-22

Sr. No.	Name of students	Project Title	Name of Project Guide
1.	Bagal Vedika Jagannath	"Synthesis and Structural Properties of PbS Solid Solution Prepared by Flux Method"	Dr. A. M. Patil
2.	Balsane Premsagar Suresh	"Single slit diffraction by LASER"	Dr. A. M. Patil
3.	Hadane Bhumika Bhika	"Synthesis and Optical properties of Lead Sulphide Thin Films Grown by Chemically Bath Deposition Method"	Dr. H. B. Patil
4.	Bhavsar Sayali Anil	"Synthesis and Optical Properties of PbxCd1- xS(0.05 <x<0.25) films"<="" td="" thin=""><td>Dr. A. M. Patil</td></x<0.25)>	Dr. A. M. Patil
5.	Chavan Ankita Upendra	"Synthesis and structural Properties of CdS Solid Solution Prepared by Flux Method"	Dr. A. M. Patil
6.	Chavan Yogita Manish	"synthesis and characterization of Pb _x Cd _{1-x} S (X=0.2, 0.4, 0.6, 0.8) by Flux Method"	Dr. A. M. Patil
7.	Gosavi Punam Parmeshwar	"Synthesis and optical properties of Cds thin films"	Dr. H. B. Patil
8.	Jadhav Dhanashri Sanjay	"Temperature Dependent Band Gap in Cadmium Sulphide Thin films using Chemical Bath Deposition Method"	Dr. H. B. Patil
9.	Kokani Suny Dilip	"Synthesis and Optical properties of Zns thin films"	Ms. K. R. Pawar
10.	Marathe Neha Natthu	"Synthesis and Optical properties of Zns thin films"	Ms. K. R. Pawar
11.	Patil Shraddha Bhausaheb	"Synthesis and characterization of CdS Solid Solution Prepared by Flux Method"	Dr. A. M. Patil
12.	Patil Ashwini Jitendra	"Time Dependent Band Gap in Cadmium Sulphide Thin Films Using Chemical Bath Deposition Method"	Dr. H. B. Patil
13.	Patil Ashwini Nimbaji	"synthesis and characterization of Pb _x Cd _{1-x} S(X=0.2, 0.4, 0.6, 0.8) by Flux Method"	Dr. A. C. Patil
14.	Patil Dhanashri Ravindra	"Dye-Sensitized Solar Cell"	Dr. A. M. Patil
15.	Patil Jayshri Manohar	"Synthesis and optical properties of PbS Thin Films"	Ms. K. R. Pawar
16.	Patil Prajakta Dipak	"Synthesis and optical properties of Cds thin films"	Ms. K. R. Pawar
17.	Patil Pratiksha Jagdish	"Synthesis and optical properties of Fe ₂ O ₃ Thin Films"	Dr. K. M. Patil
18.	Patil Sneha Prakash	"synthesis and characterization	Dr. A. C. Patil

		of Pb _x Cd _{1-x} S(X=0.2, 0.4, 0.6,	
		0.8) by Flux Method"	
19.	Pawara Chetan Shildar	"Synthesis and Optical properties of Zns thin films"	Ms. K. R. Pawar
20.	Pawara Manik Jagdish	"Synthesis and optical properties of Fe ₂ O ₃ thin films"	Dr. K. M. Patil
21.	Rajput Mhini Yogendra	"Synthesis and optical properties of Fe ₂ O ₃ thin films"	Dr. K. M. Patil
22.	Rajput Priyanka Dagesing	"Synthesis and characterization of PbS Solid Solution Prepared by Flux Method"	Dr. A. M. Patil
23.	Sayyed Aarzoo Bano Sayyed Zakir	"Synthesis and Optical Properties of PbxCd1- xS(0.05 <x<0.25) films"<="" td="" thin=""><td>Dr. A. M. Patil</td></x<0.25)>	Dr. A. M. Patil
24.	Shaikh Bushara Bi Moinoddin	"Study of Dielectric properties of a solids at Microwave Frequencies"	Dr. A. A. Patil
25.	Sisode Bhavika Dilip	"Synthesis and optical properties of Copper sulphide Thin films using Chemical Bath Deposition method"	Dr. H. B. Patil
26.	Sonawane Nisha Dhanraj	"Synthesis and Optical properties of Lead sulfide Thin films by Chemically Bath Deposition Method at Change in Complexing Agent"	Dr. H. B. Patil
27.	Bhadoriya Smita Sanjaysinh	"synthesis and characterization of Pb _x Cd _{1-x} S(X=0.2, 0.4, 0.6, 0.8)by Flux Method"	Dr. A. C. Patil
28.	Koli Yogeshwari Jitendra	"Solar Simulator" (Solar Cell Characterization Unit)	Dr. H. B. Patil
29.	Patil Divya Anil	"Solar Simulator" (Solar Cell Characterization Unit)	Dr. H. B. Patil
30.	Pawara Shantiram Jayram	"Single slit diffraction by LASER"	Dr. A. M. Patil
31.	bulal bulal	"Dielectric Behaviour and Emissivity of a soil at Microwave Frequencies"	Dr. A. A. Patil



Academic Year	Sr. No.	Method used	Content
2022-23	1.	Project Work	T.Y.B.Sc. and M.Sc. 2
2022-23	2.	Industrial Visits	UG and PG

Project Work

CERTIFICATE

This is to certify that the project report titled "Dielectric and Scattering Properties of a Soil at X-Band Microwave Frequencies" for M.Sc. (Physics) is a work carried out by Miss. Ankita Anant Pathak of M.Sc.. Physics of R.C.Patel Arts, Commerce and Science College, Shirpur, for fulfillment of M.Sc. course of KBC North Maharashtra University, Jalgaon under my supervision in the Department of Physics in the academic year 2022-23.

Internal Examiner

External Examiner

Project Guide

(Dr. Avinash A. Patil)

Date: 31/05/23

Place: Shippur

ur, Dist. Bhule 425 485

Head



R. C. Patel Arts, Commerce & Science College

Shirpur, Dist. Dhule (M.S)

CERTIFICATE

Department of Physics

This is to certified that Miss. Valvi Yamuna Kella Has satisfactorily carried out project work entitled on

"SYNTHESIS OF Fe₂O₃ THIN FILMS BY USING CBD METHOD"

for the degree of M.Sc. in Physics as laid down by KBC North Maharashtra University,

Jalgaon during Academic Year 2022-23.

External Examiner

External Examiner

College seal

Project Guide Prof. K. M. Patil

Head

Dr. A.M.Patil
Department of Physics

R. C. Patel ACS College, Shirpur



R. C. Patel Arts, Commerce & Science College

Shirpur, Dist. Dhule (M.S)

CERTIFICATE

Department of Physics

This is to certified that Miss. Solanki Gayatri Jagdish

Has satisfactorily carried out project work entitled on

"PREPARATION & OPTICAL PROPERTIES OF Fe2O3 THIN FILMS BY USING CBD METHOD"

for the degree of M.Sc. in Physics as laid down by KBC North Maharashtra University,

Jalgaon during Academic Year 2022-23.

Dist.Dhu

External Examiner

Prof. K. M. Patil

Dr. A.M.Patil Department of Physics

R. C. Patel ACS College, Shirpur

2



R. C. Patel Arts, Commerce & Science College

Shirpur, Dist. Dhule(M.S.)

CERTIFICATE

Department of Physics

This is certified that BHAGYASHRI SAKHARAM MARATHE has satisfactorily carried out project work entitled "Biosynthesis of Silver Nanoparticles using Indian Almond Leafs" for the degree of M.Sc. in physics as laid down by Kaviyitri Bahinabai Chaudhari North Maharashtra University, Jalgaon during Academic Year 2022-2023.

Project guide

Dr. H.B.Patil

Department Of Physics R.C.Patel Arts.Commit. & Sci.College Shirpur, Dist. & hule 425 405

College seal

External Examiner

External Examiner

Industrial Visits at Jay Industries



Industrial Visits



Industrial Visits



T.Y.B.Sc Project List 2022-23

Sr. No.	Name of students	Project Title	Name of Project Guide
1.	Banjara Shilpa Bhatusing	Synthesis and optical properties of Pbs thin film	Dr. A. M. Patil
2.	Girase Darshana Prakashsing	Synthesis and Optical Properties of copper sulphide thin film using Chemical Bath System	Dr. H. B. Patil
3.	Koli LalitaBai Ravindra	Synthesis and optical properties of lead sulphide thin film using chemical bath deposition method	Dr. H. B. Patil
4.	Marathe Maheshwari Rajendra	Dielectrics and scattering Properties of a soil at X band Microwave Frequencies	Dr. A. A. Patil
5.	Shaikh AsmaKaosar Kalimoddin	Synthesis and optical properties of cadmium sulphide thin film using chemical bath deposition method	Dr. H. B. Patil
6.	Shimpi Puja Dipak	Study the optical properties of TiO ₂ nanoparticles by green synthesis method	Mr. A. C. Bhavsar
7.	Solanki Shweta Jagdish	Dielectrics and emissive behaviour of soil at microwave frequencies.	Dr. A. A. Patil
8.	Teli Mariyam Shaikh Ayyub	Synthesis and optical properties of cadmium sulphide thin film using chemical bath deposition method	Dr. H. B. Patil
9.	Dhangar Girish Pandurang	Study of Single slit and double slit of LASER beam.	Mr. A. C. Bhavsar

Dr. A. M. Patil HOD

Department of Physics & Electronics

M.Sc. Project List 2022-23

Sr. No.	Name of students	Project Title	Name of Project Guide
1.	Badgujar Manjusha Sunil	Synthesis and Optical Properties of CdS thin films	Dr. A. M. Patil
2.	Bedse Kavita Pratap	Synthesis and Optical Properties of PbS thin films	Dr. A. M. Patil
3.	Birhade Amrapali Anand	Synthesis and Structural Properties of Cds and Pbs Solid Solution by Flux method	Dr. A. M. Patil
4.	Deore Sakshi Nimbajirao	Synthesis and X-Ray analysis of Pb _x Cd _{1-x} S (X=0.1, 0.3, 0.5, 0.7, 0.9) by Flux Method	Dr. A. M. Patil
5.	Gavit Kalpana Ramesh	Synthesis and Optical Properties of CdS thin films	Dr. A. M. Patil
6.	Girase Trupti Premsing	Synthesis and Optical Properties of ZnS thin films	Dr. A. M. Patil
7.	Jain Poonam Pratapmal	Synthesis and Structural Properties of CdS and PbS Solid Solution by Flux Method	Dr. A. M. Patil
8.	Jaware Goral yogesh	Synthesis and X-Ray analysis of Pb _x Cd _{1-x} S (X=0.1, 0.3, 0.5, 0.7, 0.9) by Flux Method	Dr. A. M. Patil
9.	Mali Tejaswini Prakash	Synthesis and Optical Properties of ZnS thin films	Dr. A. M. Patil
10.	Patil Khushali Nitin	Synthesis and Structural properties of Cds and Pbss Solid Solution by flux method	Dr. A. M. Patil
11.	Patil Nayana Rajendra	Synthesis and Structural properties of Cds and Pbs Solid Solution by flux method	Dr. A. M. Patil
12.	Gavali Priya Rajendra	Study of Dielectrics Properties of Soils at X- Band Microwave Frequencies	Dr. A. A. Patil
13.	Pathak Ankita Anant	Study of Dielectrics Properties of Soils at X- Band Microwave Frequencies	Dr. A. A. Patil
14.	Patil Gauri SatishChandra Study of Dielectrics Properties of Soils at X- Band Microwave Frequencies		Dr. A. A. Patil
15.	Marathe Bhagyashri Biosynthesis of Silver Nanoparticles Sakharam Using Indian Almond Leaf		Dr. H. B. Patil
16.	Patil Kanchan Kantilal	Biosynthesis of Silver Nanoparticles Using Indian Almond Leaf	Dr. H. B. Patil
17.	Rajput VrushaliDevi Vijaysing	Biosynthesis of Silver Nanoparticles Using Indian Almond Leaf	Dr. H. B. Patil

18.	Deore Ganesh Rajendra	Deore Ganesh Rajendra Study and Structural properties of TiO2 Nanoparticles by Green Synthesis Method	
19.	Hake Lahu Namdeo	Study and Structural properties of TiO2 Nanoparticles by Green Synthesis Method	Mr. A. C. Bhavsar
20.	Pawar Lina Kiran	Study and Optical properties of TiO2 Nanoparticles by Green Synthesis Method	Mr. A. C. Bhavsar
21.	Sabe Divya Satish	Study and Optical properties of TiO2 Nanoparticles by Green Synthesis Method	Mr. A.C. Bhavsar
22.	Sonawane Ashvini Amrut	Study and Optical properties of TiO2 Nanoparticles by Green Synthesis Method	Mr. A. C. Bhavsar
23.	Patil Vaishnavi Uday	Preparation and optical properties of Fe ₃ SO ₄ thin films by CBD method.	Mrs. K. M. Patil
24.	Solanki Gayatri Jagdish	Preparation and optical properties of Fe2O3 thin films by CBD method.	Mrs. K. M. Patil
25.	Valvi Yamuna Kella	Preparation and optical properties of Fe2O3 thin films by CBD method.	Mrs. K. M. Patil

Dr. A. M. Patil HOD

Department of Physics & Electronics

Participative Learning

Academic Year	Sr. No.	Method used	Content
2018-19	1.	Poster Presentations	UG and PG students Science Day Poster Presentation

Poster Presentations on Science Day



Poster Presentations on Science Day



	Sr. No.	Method used	Content
A andomia Vanu	ear 1.	Poster	UG and PG students Poster
Academic Year 2019-20		Presentations	presentation on Science day
2019-20	2.	Flipped Classroom	Waves

Poster Presentation on Science Day



Flipped Classroom



	Sr. No.	Method used	Content
Academic Year	1.	Poster Presentation	Physics Poster
2020-21	2	Flipped Classroom	S.Y.B.Sc Electrical Circuits
	۷.		and diagrams

Poster Presentation on Science Day



Flipped Classroom



Sr. No.	Method used	Content	
1	Poster	Physics Posters	
1.	Presentation	Thysics Tosters	
2.	Flipped	Inter planar distance	
	1. 2.	Presentation	

Science Day Celebration



Poster Presentation on Science Day



Poster Presentation on Science Day



Flipped Classroom



	Sr. No.	Method used	Content
Academic Year	1.	Group Discussion	MSc 2- Group discussion on Scope of Nanomaterials in future
2022-23	- ',	Poster Presentations	UG and PG Students
	3.	Flipped Classroom	MSc 1 Instrumentation

Group Discussion



Poster Presentation on Science Day



Poster Presentation on Science Day



Flipped Classroom



Problem Solving

	Sr. No.	Method used	Content
	1.	Book Review	"Quantum Mechanics: A Modern Development" by Ashok Das is a comprehensive textbook that provides a modern and thorough treatment of quantum mechanics. Das introduces complex concepts with clarity and depth, catering to both undergraduate and graduate students. The book covers a wide range of topics, including advanced quantum mechanics and field theory, with clear explanations and detailed mathematical derivations. While the material can be challenging, Das' systematic approach and numerous examples aid comprehension. Overall, "Quantum Mechanics: A Modern Development" is highly recommended for students and researchers seeking a deeper understanding of quantum theory.
Academic Year 2018-19	2.	Book Review	"Classical Mechanics" by Herbert Goldstein is a classic textbook that offers a comprehensive treatment of classical mechanics suitable for graduate-level study. Goldstein's text is highly regarded for its depth of coverage, mathematical rigor, and clear explanations. The book covers a wide range of topics, including Lagrangian and Hamiltonian mechanics, rigid body dynamics, and small oscillations, among others. One of the strengths of Goldstein's textbook is its emphasis on both the theoretical foundations of classical mechanics and its practical applications. The problems included in each chapter are diverse and challenging, encouraging students to apply the theoretical concepts they've learned to real-world scenarios.
	3.	Book Review	"Principles of Quantum Mechanics" by R. Shankar is a widely respected textbook that offers a comprehensive introduction to the principles of quantum mechanics. Shankar's

			writing style is clear and engaging, making
			complex concepts accessible to students at
			various levels of expertise. The book covers a
			wide range of topics, including wave-particle
			duality, the Schrödinger equation, angular
			momentum, and quantum entanglement. One
			of the notable features of Shankar's book is
			its emphasis on mathematical rigor. While
			this may be challenging for some readers,
			particularly those without a strong
			mathematical background, the thoroughness
			of the mathematical treatment ensures a deep
			understanding of the subject matter.
			Mathews and Walker's textbook provides a
			clear and concise introduction to
			mathematical methods commonly used in
			physics. It covers topics such as complex
	4.		analysis, Fourier series, special functions,
		Book	and integral transforms, with applications to
	4.	Review	classical mechanics, electromagnetism, and
			quantum mechanics. The book's
			approachable writing style, numerous worked
			examples, and practical exercises make it
			suitable for undergraduate students with a
			basic understanding of calculus.
			1. Recent trends on Nanomaterial
			Dr. V. R. Chaudhari
	5.	Expert Talk	Dr. P. O. Patil
	2	•	Dr. H. S. Mahajan
			2. Social work Dr. Trupti Desai

	R.C.Patel Art	s,Commerce&Sci	ence College,Shirp	ur
	D	epartment of Phys	sics	
	Book Review Attendance		Year:	1018 - 20
Sr.No.	Name of the atudent	Book Name	Author	Sign.
1	Mantani Mone Mikuk	Quartum Mechanics	Ashok Dass	Merkeri
1-	Control of the Contro	Classical Mechani	Herbert (Nidal
3.	Trasar Vewhali K	Principle of	R-shanker	Major
4	Patil Sachin Gold	M.M.P	John Mathew	agil-

Expert Talk by Dr. P. O. Patil



Expert Talk by Dr. V. R. Chaudhari



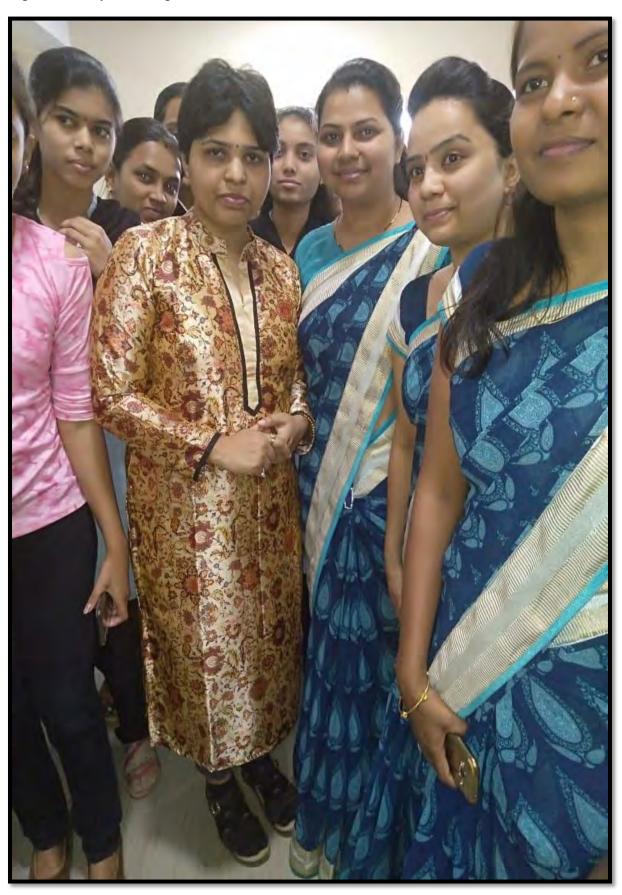
Expert Talk by Dr. H. S. Mahajan



Expert Talk on Recent trends on Nanomaterials



Expert Talk by Dr. Trupti Desai



	Sr. No.	Method used	Content
	1.	Book Review	"Introductory Nuclear Physics" by Kenneth S. Krane: Krane's textbook provides a comprehensive introduction to nuclear physics for undergraduate students. It covers topics such as nuclear structure, radioactive decay, nuclear reactions, and nuclear models, with an emphasis on both theoretical concepts and experimental techniques. The book is known for its clear explanations, numerous examples, and practical exercises, making it accessible to students with varying levels of background knowledge in physics.
Academic Year 2019-20	2.	Book Review	QM: Concepts and Applications by Zettili: Zettili's clear writing style and step-by-step explanations make abstract concepts accessible. The book covers a wide range of topics, from fundamental principles to advanced applications, with numerous examples and exercises to reinforce learning. While some may find the mathematical formalism challenging, Zettili's approach fosters a deep understanding of quantum mechanics. Overall, it's a highly recommended resource for students seeking a thorough grasp of the subject.
2019-20	3.	Book Review	"Introduction to Electrodynamics" by David J. Griffiths: Griffiths' book is a staple in many undergraduate physics courses. It offers a clear and concise introduction to the principles of elect rodynamics, blending theoretical concepts with practical applications. The text is known for its accessible writing style and well-crafted explanations, making it suitable for students with varying levels of prior knowledge. The problem sets provided at the end of each chapter are diverse and challenging, helping students solidify their understanding through practice.
	4. Book Review	"Mathematical Methods in the Physical Sciences" by Mary L. Boas: Boas' textbook is a comprehensive introduction to mathematical methods commonly used in physics. It covers topics such as calculus, differential equations, linear algebra, complex analysis, and Fourier analysis, with applications to various areas of physics. The book is known for its clear explanations, numerous examples, and practical exercises, making it accessible to undergraduate students with varying levels of	

		mathematical background.
		Dr. S. T. Bendre,
		Dr. L. A. Patil,
5	Example Tolls	Dr. I. J. Patil,
3.	Expert Talk	Dr. S. R. Gosavi,
		Dr. R. S. Khadayte,
		Dr. P. P. Jagtap
6.	Expert Talk	Study of emerging fields in Physics

	R.C.Patel Ar	ts,Commerce&Sci	ence College,Shirp	ur
	D	epartment of Phys	sles	
	Book Review Attendance	2	Year: 2	olg - 2
Sr.No.	Name of the student	Book Name	Author	Sign.
1.	Upadhyay Shweta R.	Intro. N.P.	k.s. krane	Pur
2.	Patil Millind Mail	quaman,	ZeAlli	maid
3.	Pahl Vaibhau chande	Introduction to	Devid J. Onia	gcl.
4.	Patil rikita Lanman	MMP	Devid J. Griff wary L. Bass	St. Kitz



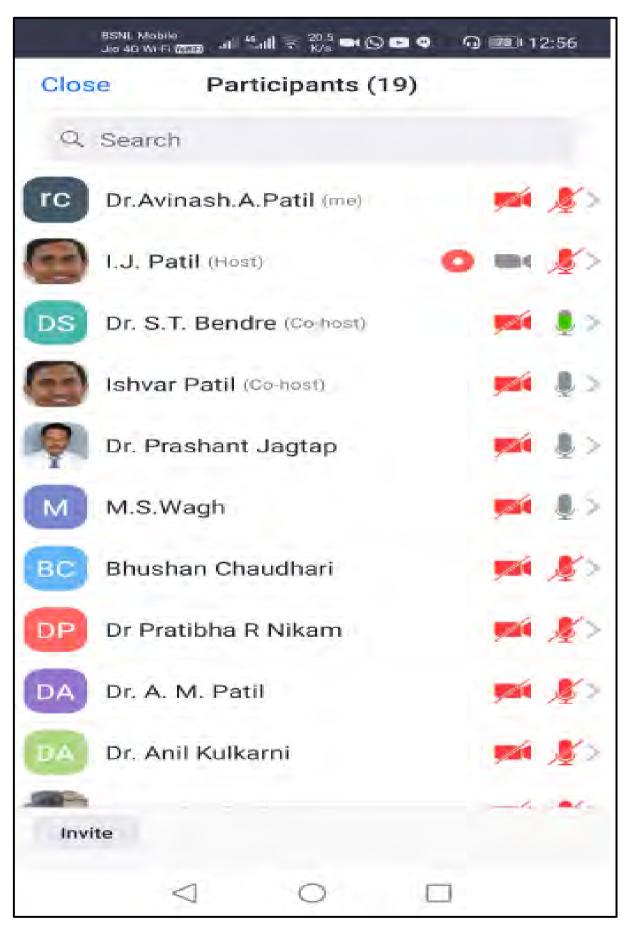
Seven Day's Webinar on Study of emerging fields in Physics

R.C. Patel Arts Commerce & Science College, Shirpur							
		MADE WEBDIAN SERIES 2020 Ou y of Emerging Fleids to Physics					
		26 May 2020 to 1 June 2020 Time: 4.00 p.m. to 5.00 p.m.					
107	Limit .	Favorable Merico	Treat				
25/05/2020	4.00 p.m. to 5.00 p.m.	Dr.S.T.Bendre Director, School of Physical Sciences, KBCNMU, Jalgaon	Green Energy				
27/05/2020	400 pm to 5,00 pm.	Prof.Dr. L.A. Patil Princ, Pratao College, Amainer	Nano Technology				
28/05/2020	4.00 p.m. to 5.00 p.m.	Dr. I.I. Patril Aspt. Professor PS.G.V.P.S.College, Shahada	Quantum Physics				
29/05/2020	4.00 p.m. to 5.00 p.m.	Dr. S.R. Goszwi Asst. Professor, ASC College, Taloda	X-ray Analysis				
	4.00 p.m. to 5.00 p.m.	Dr. R.S.Khadayte Asso. Professor, ASC College, Jamner	Solar Energy				
30/05/2020		Dr. P.P.Sagtap					

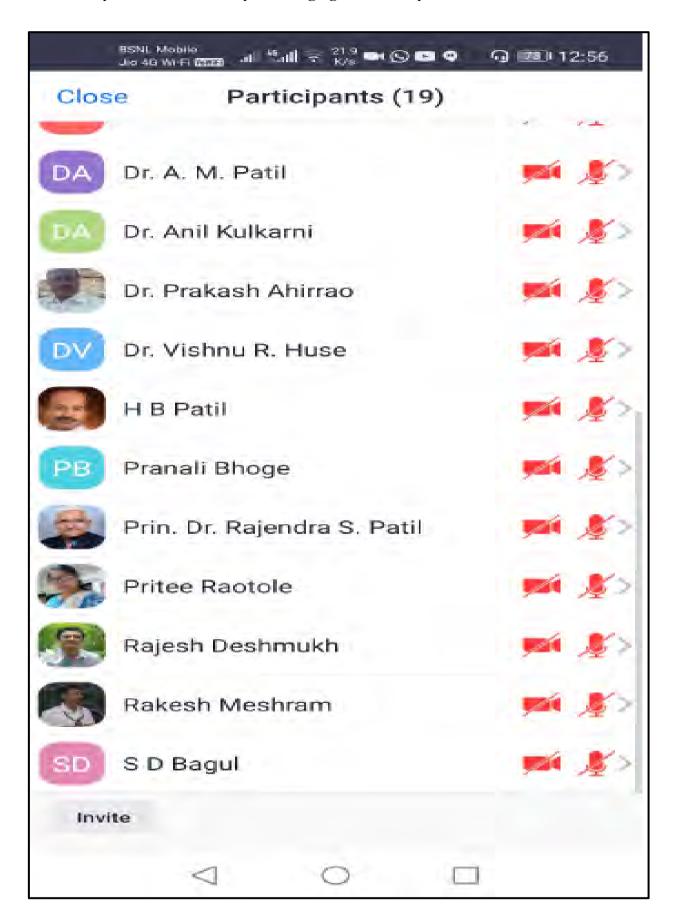
Seven Day's Webinar on Study of emerging fields in Physics

Theme of Webinar The world is facing the problem of Covid-19. Due to such · Aware the students about online resources of Physics learning serious issue all sectors are get suffered. It creates impact on education system also. By thinking this issue, our institute ·Students can aware the various emerging fields of Physics plans to take initiative as a online learning platform during this situation of Novel Covid-19 for the students. This webinar is specially organized for Physics students. 26 May Green Energy Nano Technology 27 May •There is no Registration Fees for the Webinar (Dr. S.T. Bendre) (Dr. L.A.Patil) Filling the registration form is mandatory 28 May Quantum Physics 29 May X-ray Analysis · E-Certificate will be issued to all registered participants only. (Dr. LJ.Patil) (Dr. S.R. Gosawi) ·Webinar will be conducted through Zoom App 30 May Solar Energy 1 June Crystal Structure *Updates regarding webinar will be provided on Whats app (Dr. R.S.Khadayte) (Dr. P.P.Jagtap) group ·After completion of Webinar, Feedback link would be provided, registered participants need to submit feedback Registration Link: https://forms.gle/4MMG73Ak5qMdvbwF6 form. The webinar is available on ZOOM app **Organizing Committee** Dr. A.M.Patil Principal Dr. D.R.Patil Dr. A.A.Patil Co-ordinator Convener Co-coordinator Department of Physics Dr. H.B.Patil Co-coordinator

Seven Day's Webinar on Study of emerging fields in Physics



Seven Day's Webinar on Study of emerging fields in Physics





Certificate

of Appratiation



Webinar Series

on

"Study of Emerging Fields in Physics"

This is to certify that, Dr. P. P. Jagtap of the Institute P.S.G.V.P.S. ASC College, Shahada has participated as a Resource Person and delivered talk on the topic "Crystal Structure" in the webinar organized by Departments of Physics, R. C. Patel Arts Comm. & Sci. College, Shirpur on 1st June 2020.



M

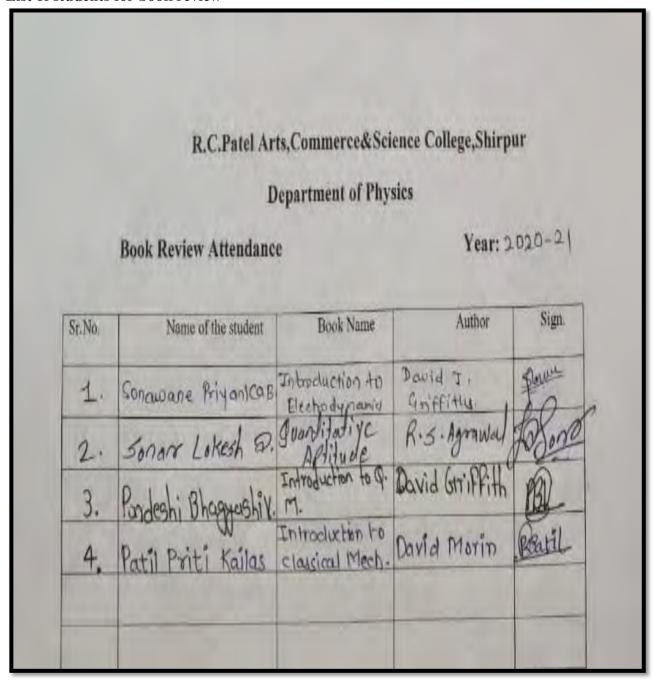
Dr. A.A.Patil Co-coordinator Aletel

Dr. A.M.Patil Co-ordinator Elatil

Principal Dr. D.R.Patil Convener

	Sr. No.	Method used	Content
	1.	Book Review	"Introduction to Electrodynamics" by David J. Griffiths: Griffiths' book is a staple in many undergraduate physics courses. It offers a clear and concise introduction to the principles of electrodynamics, blending theoretical concepts with practical applications. The text is known for its accessible writing style and well-crafted explanations, making it suitable for students with varying levels of prior knowledge. The problem sets provided at the end of each chapter are diverse and challenging, helping students solidify their understanding through practice.
	2.	Book Review	Quantitative Aptitude by R.S. Aggarawal is a comprehensive guide for anyone preparing for competitive exams or aiming to improve their mathematical skills. This book covers a wide range of topics including arithmetic, algebra, geometry and data interpretation.
Academic Year 2020-21	3.	Book Review	Introduction to Quantum Mechanics" by David J. Griffiths "Introduction to Quantum Mechanics" by David J. Griffiths offers clear explanations and intuitive insights into complex quantum concepts. Its balanced approach combines conceptual understanding with mathematical rigor, aided by engaging writing and relatable examples. The problem sets progressively challenge students, and detailed solutions aid self-assessment. While some may find the math daunting, Griffiths' clarity and organization make this textbook highly recommended for undergraduates.
	4.	Book Review	"Introduction to Classical Mechanics: With Problems and Solutions" by David Morin "Introduction to Classical Mechanics: With Problems and Solutions" by David Morin is a highly acclaimed textbook offering a modern and engaging approach to classical mechanics. Morin's clear writing style and emphasis on conceptual understanding make this book accessible to students at various levels. The inclusion of numerous problems with detailed solutions allows readers to reinforce their understanding and develop problem-solving skills. The book covers a wide range of topics,

	including Newtonian mechanics, Lagrangian and Hamiltonian formalisms, rigid body motion, and nonlinear dynamics. Overall, Morin's "Introduction to Classical Mechanics" is an invaluable resource for students and educators
	alike, providing a solid foundation in classical physics.





	Sr. No.	Method used	Content
	1.	Book Review	QM: Concepts and Applications by Zettili: Zettili's clear writing style and step-by-step explanations make abstract concepts accessible. The book covers a wide range of topics, from fundamental principles to advanced applications, with numerous examples and exercises to reinforce learning. While some may find the mathematical formalism challenging, Zettili's approach fosters a deep understanding of quantum mechanics. Overall, it's a highly recommended resource for students seeking a thorough grasp of the subject.
Academic Year 2021-22	2.	Book Review	"Principles of Electrodynamics" by Melvin Schwartz: Schwartz's book provides a thorough introduction to the principles of electrodynamics, with an emphasis on clarity and accessibility. The text covers a wide range of topics, from electrostatics and magnetostatics to electromagnetic waves and radiation. Schwartz's approachable writing style and clear explanations make complex concepts easy to grasp for undergraduate students.
1 Cai 2021-22	3.	Book Review	"Microelectronic Circuits" by Adel S. Sedra and Kenneth C. Smith: Sedra and Smith's textbook is widely used in undergraduate electronics courses. It offers a thorough treatment of microelectronic circuits, covering topics such as semiconductor physics, MOSFETs, BJTs, and amplifier design. The book emphasizes intuitive understanding through conceptual explanations and practical examples. It also includes a wealth of supplementary resources, including circuit simulation software and online tutorials, to enhance student learning
	4.	Book Review	"Mathematical Methods for Physicists" by George B. Arfken, Hans J. Weber, and Frank E. Harris: Arfken, Weber, and Harris provide a thorough treatment of mathematical methods relevant to physics. The textbook covers topics such as vector calculus, special functions, Fourier analysis, and partial differential equations, with applications to classical and quantum mechanics, electromagnetism, and statistical physics. The book's clear exposition, detailed explanations, and extensive problem sets make it suitable for

		undergraduate students studying mathematical physics
5.	Book Review	"Classical Electrodynamics" by John David Jackson: Jackson's textbook is widely regarded as a classic in the field of electrodynamics. It offers a comprehensive treatment of the subject, covering both classical and modern topics in depth. While the text can be dense and challenging for some students, it provides a thorough mathematical foundation for advanced study in physics. The problem sets are extensive and thought-provoking, encouraging students to delve deeper into the material.

	R.C.Patel Ar	ts,Commerce&Sci	ience College,Shirp	ur
	T	Department of Phy	sics	
	Book Review Attendance	e	Year: 7	021-202
Sr.No.	Name of the student	Book Name	Author	Sign.
1	Chavan Yogita M.	C.M. consept and	Zettli*	(President)
2-	Bhavsar Sayali	Principle of Electrodynamics	Melvin Shwartz	Bhyall
3.	Bhadane Bhumika	Micro electronic	A.S. Sedra 4 K.C. Smith Reoge B. arken	Bylloolo
4.	Pawara chefan k.	Mathematical meth-	Reage B. arthen	Pauparceheles
5-	Sayjed Agozooz.	Principle of Electrodynamics	Melvin shourtz	- William



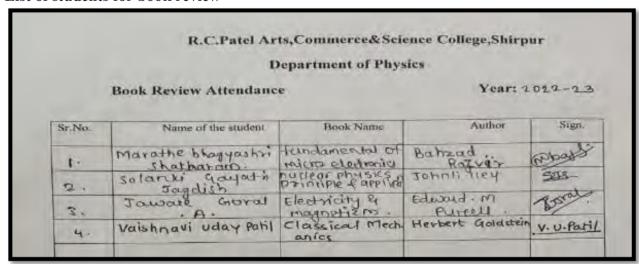
Book Review



	Sr. No.	Method used	Content
Academic Year 2022-23	1.	Book Review	"Fundamentals of Microelectronics" by Behzad Razavi: Razavi's textbook offers a modern and comprehensive approach to the study of microelectronics. It covers fundamental concepts such as semiconductor physics, MOSFETs, and digital CMOS circuits, as well as advanced topics like noise analysis and RF circuits. The book is known for its clear explanations and intuitive presentation of complex concepts, making it suitable for undergraduate students with varying levels of background knowledge
	2.	Book Review	Nuclear Physics: Principles and Applications" by John Lilley: Lilley's textbook offers a modern and comprehensive treatment of nuclear physics. It covers topics such as nuclear structure, nuclear reactions, nuclear astrophysics, and applications of nuclear technology, with a focus on both theoretical concepts and experimental methods. The book is known for its clear exposition, detailed explanations, and extensive problem sets, making it suitable for undergraduate students studying nuclear physics.
	3.	Book Review	"Electricity and Magnetism" by Edward M. Purcell and David J. Morin: This textbook offers a modern approach to the study of electricity and magnetism. It is known for its engaging writing style and emphasis on conceptual understanding. Purcell and Morin present the material in a way that encourages active learning, with numerous examples and illustrations to aid comprehension. The book also includes a variety of problems ranging from basic to advanced, making it suitable for self-study as well as classroom use.
	4.	Book Review	"Classical Mechanics" by Herbert Goldstein" Classical Mechanics" by Herbert Goldstein is a classic textbook that offers a comprehensive treatment of classical mechanics suitable for graduate-level study. Goldstein's text is highly regarded for its depth of coverage,

		mathematical rigor, and clear
		explanations. The book covers a wide
		range of topics, including Lagrangian and
		Hamiltonian mechanics, rigid body
		dynamics, and small oscillations, among
		others. One of the strengths of Goldstein's
		textbook is its emphasis on both the
		theoretical foundations of classical
		mechanics and its practical applications.
		The problems included in each chapter
		are diverse and challenging, encouraging
		students to apply the theoretical concepts
		they've learned to real-world scenarios.
		Dr. S. T. Shinde,
5.	Expert Talk	Dr. R. M. Shewale,
		Dr. Harshal Patil

List of students for book review



Book Review



Guest Visit



Expert Talk by Dr. R. M. Shewale



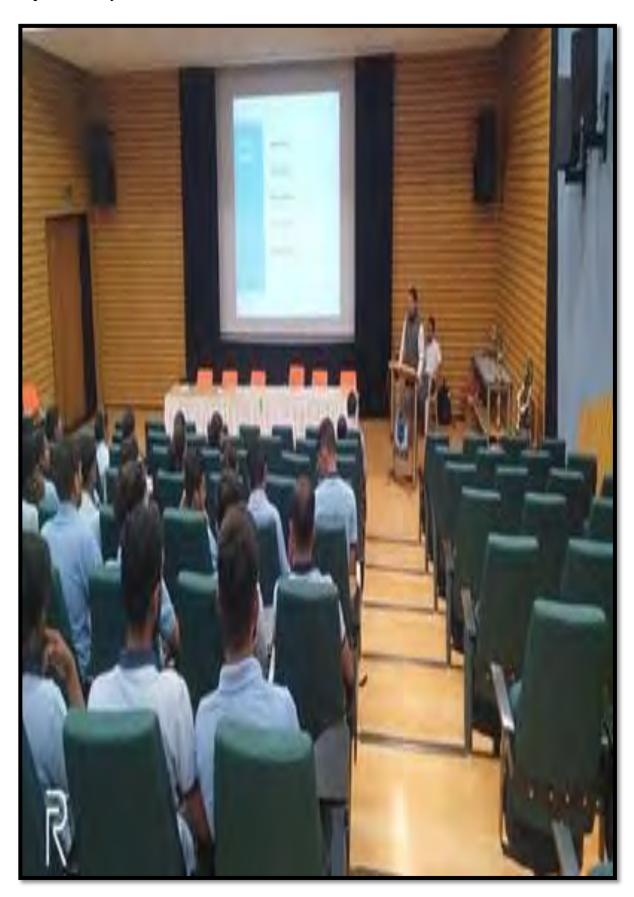
Expert Talk by Dr. Harshal Patil



Expert Talk by Dr. S. T. Shinde



Expert Talk by Dr. S. T. Shinde



R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur Department of Physics The Details of ICT Pedagogy used in Teaching Learning Process For the academic year 2018-19

Sr. No.	Contents	Type of ICTMaterial	Source	Links
1.	1. Quartz Crystal Microbalance (M.Sc. 2) 2. Molten carbonate fuel cell (M.Sc. 2)	You-tube Video	Drive	https://youtu.be/XaQaak- NA8A?si=lEQ7tCtagipGxr5O https://youtu.be/WWm6HxPGXj0?si=cc dh4LN_wedUZMaA
	Physics EVS			https://classroom.google.com/c/MjE1Mj g2NTk0MzA5?cjc=r434cp7 https://classroom.google.com/c/MzM4N
	Waves and Oscillation			zg0ODQ3NDA0?cjc=y6dc2ck https://classroom.google.com/c/MzE0Mz g2MDk2NjQx?cjc=rcjqdx5
	EVS			https://classroom.google.com/c/MzE0Mz g2MDk2NjQx?cjc=rcjqdx5
				https://classroom.google.com/c/MjA0Nz EyMTQwNTc5?cjc=dyu4xk7
2.	Mathematical Physics	Google Classroom	Drive	https://classroom.google.com/c/NjU0OT AxNjc3MzI4?cjc=dfsttfy
	Waves and Oscillation			https://classroom.google.com/c/NjU0OT AxNjc3MzI4?cjc=dfsttfy
	S.Y.B.Sc. SEM II(Instrumentation			https://classroom.google.com/c/NDEwMzcxMDE1NDU2?cjc=3mzng4t
	T.Y.B.Sc. SemV (Microprocessor I) Sem VI Microprocessor II			https://classroom.google.com/c/MjI2NjY 0OTAzMDI4?cjc=sbblukt

			https://classroom.google.com/c/MTE3M
S.Y.B.Sc.SEM III			zM5NzM4MjYw?cjc=tobhuaf
(Instrumentation)			https://classroom.google.com/c/MTQ5M DYyNDczNDRa?cjc=faecn3s
T.Y.B.Sc. SemV (Microprocessor I) Sem VI (Microprocessor II			
)			https://classroom.google.com/c/NDA3O TY3ODQyMTRa?cjc=wn4q4fr
T.Y.B.Sc. SemV (Microprocessor I) Sem VI (Statistical Mechanics and			https://classroom.google.com/c/NDc4NT YzMTc0MzNa?cjc=cbrvwsc
Thermodynamics)			https://classroom.google.com/c/MjcxND Q0NzQ2NTFa?cjc=k7cpuj2
M.Sc. I SEM II (Stastical Mechanics)			https://classroom.google.com/c/MjcwOD k0NDE2NDla?cjc=tidravy
S.Y.B.Sc.SEM III (Instrumentation)			https://classroom.google.com/c/MjcwOT E5NjI1MTBa?cjc=bue7lnt
T.Y.B.Sc. SemV (Microprocessor I) Sem VI (Statistical			
Mechanics and Thermodynamics			
M.Sc. I SEM II (Stastical Mechanics)			
1. Material Synthesis Method (M.Sc. 2) 2. Renewable Energy Harvesting	Test using Google form or Testmoz	Drive	https://docs.google.com/forms/d/1I0L2V t2h9TBQrF9C9IMaNb7TpT36t64H9pb M1AZQKhI/edit?usp=drivesdk https://docs.google.com/forms/d/1cqGZd

	(S.Y.B.Sc.)			JkYvD8byYGvCCOystFHjMC69- JwVDsTzDaQBMo/edit?usp=drivesdk
4.		PPT	Drive	https://ldrv.ms/p/c/34679f5ab06093d6/E RfunDdWxSNClKKCpHu40sIBkxGS2Q AQyqdXH_3TfcrfaA https://ldrv.ms/p/c/34679f5ab06093d6/E daTYLBan2cggDSEAAAAAAABq73D ONbE677jFXiHIO2-Lw https://ldrv.ms/p/c/34679f5ab06093d6/E daTYLBan2cggDS0AAAAAAB2cuCr w1z81AY5B6DqMPbxw



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College Shirpur

Student Centric Learning (Pedagogies Used) Department of Physics & Electronics

• Pedagogy used for Teaching –

- Lecture-Based Instruction: Provides foundational knowledge through structured presentations.
- Hands-On Laboratory Experiments: Allows practical application and skill development.
- o Project-Based Learning (PBL): Engages students in real-world projects for problem-solving.
- o Simulation and Modeling: Utilizes software to visualize and analyze electronic systems.
- Flipped Classroom: Pre-class material review, followed by interactive inclass activities.
- o Peer Instruction: Students learn through collaboration and discussion.
- o Problem-Based Learning (PBL): Challenges students with real-world problems to solve.
- o Active Learning Strategies: Engages students through various interactive techniques.

Tools and Materials used-

- Soldering iron
- Breadboard
- Oscilloscope
- Wire cutters
- Power supply
- Logic analyser
- Integrated circuits
- Resistors, capacitors, inductors
- Transistors, diodes
- Printed circuit boards (PCBs)
- Connectors, headers
- Enclosures
- Cables, wires
- Prototyping materials

• Description of the Methods -

- Soldering: Joining components with solder.
- Analysis: Understanding circuit behaviour.
- Simulation: Modelling circuits digitally.
- Prototyping: Testing preliminary designs.
- Testing: Measuring signals and performance.
- Troubleshooting: Diagnosing and fixing faults.
- Design: Planning circuits and systems.
- Programming: Writing code for control.

Outcomes (Learning Experience) Understanding circuit principles

- ➤ Hands-on skills
- > Problem-solving abilities
- Design competencyCritical thinking
- Collaboration and communication
- > Adaptability to new technologies
- > Ethical and professional conduct

Experiential Learning

Academic Year	Sr. No.	Method used	Content
2019-20	1.	Quiz	University Level Online Test

Quiz/ Contest Details - 28 April 2020. Department of Electronics organized college level the name of quiz is "University Level Online Test for S.Y.B.sc in Electronics". In this competition a student from MGSM"s Arts, Science & Commerce, college and other colleges took participation.

Online Quiz Certificate 2019-20



Academic Year	Sr. No.	Method used	Content
2021-22	1.	Quiz	Online Electronic Knowledge Test

➤ Quiz/ Contest Details – 20 March 2022. Department of Electronics organized intercollege level 'Online Electronic Knowledge Test'. In this competition a student from S.Y.B.Sc took participation

Quiz Certificate 2021-22



	Sr. No.	Method used	Content
Academic Year	1.	Project Work	Project Work F.Y.Bsc
2022-23	2.	Workshop	Arduino & its Application
	3.	Quiz	S.Y.B.Sc

Project Work: (Lab work not official) Mini Project based on practical"s circuit.

- ➤ Tours/workshop Students Participated in workshop which is organized by department of Electronics at Arts, Science & Commerce College Chopda which is titled by "Arduino & its Application". The list of students names is given below.
- ➤ Quiz/ Contest Details 20 March 2023. Department of Electronics organized intercollege level 'Online Electronic Knowledge Test'. In this competition a student from S.Y.B.sc took participation

Quiz Certificate 2022-23



	Workshop Student list 2022-23
Sr. No.	Name of Students
1.	Deshmukh Darpan
2.	Pawar Rohit
3.	Patil Vaibhavi
4.	Patil Aankansha
5.	Shirsath Prasad
6.	Sonar Shubham
7.	Dalal Gopal
8.	Chaudhari Tejaswini
9.	Bhavsar Lalit

Sr. No.	Name of Students
1.	Nikam Rohan Nandlal
2.	Ahire Purushottam Kailas
3.	Rajput Jaypal Rajesing



Academic Year	Sr. No.	Method used	Content
2023-24	1.	Industrial Visits	F.Y.B.Sc, S.Y.B.sc

Tours/workshop – Students Participated in workshop which is organized by department of Electronics at "Dadasaheb Dr. Suresh G. Patil College Chopda" workshop is titled by "Arduino & its Application". The list of students is given below.

Chopda Workshop 2022-23



Chopda Workshop 2022-23



	Tours (Workshop) student list 2023-24			
Sr. No.	Name of Students			
1.	Patil Rashmi Arun			
2.	Patil Chetana Arun			
3.	Kalekar Dhiraj Rajendra			
4.	Kalekar Dhananjay Rajendra			
5.	Patil Guarav Sandip			
6.	Ogale Raj Umesh			
7.	Borse Nayan Himmatrao			
8.	Pawar Monika			
9.	Mali Chandrakant			
10.	More Manasi Dipak			
11.	Patil Disha Mahendra			
12.	Karandikar Tanvi santosh			
13.	Pandey Sanjana Omprakash			
14.	Patil Vaishnavi Sandip			
15.	Thakre Hemangi Ravsaheb			
16.	Girase Ruchita Himmatsing			
17.	Badgujar Purva Sandip			

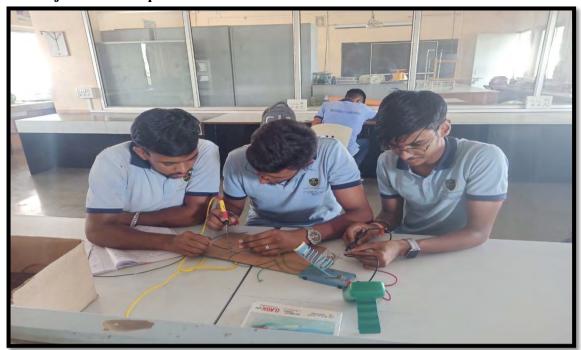
Sr. No.	Name of Students
1.	Patil Rashami Arun
2.	Patil Khushi Jagdish
3.	Girase Apurva Virendrasing
4.	Koalapkar Puja Nandkishor



Chopda Workshop 2022-23



Mini Project based on practical 2022-23



Chopda Workshop Photos 2022-23



Chopda Workshop Photos 2022-23



Chopda Workshop Photos 2022-23



Mini Project based on practical 2022-23



Mini Project



Participative Learning

	Sr. No.	Method used	Content
Academic Year 2019-20	1.	Poster Presentations	UG and IT based poster like Embedded system, Arduino, etc

Poster Presentation



Academic Year	Sr. No.	Method used	Content
	1.	Group Discussion	Difference Between Digital and Analog Electronics
2022-23	2.	Poster Presentations	UG & PG students
	3.	Flipped Classroom	F.Y Syllabus Topics

Group Discussion 2022-23





Flipped Classroom 2022-23



Problem Solving

	Sr. No.	Method used	Content
Academic Year 2022-23	1.	Case Studies	Measurement: How to measure resistor values theoretically as well as practically. How to measure basic Electronics components.

F.Y Students Case Study on Basic Electronics



R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur Department of Physics & Electronics

The Details of ICT Pedagogy used in Teaching Learning Process For the academic year 2020-21

Sr. No.	Contents	Type of ICTMaterial	Source	Links
1.	S.Y.B.Sc	Quiz-2019-20	Drive	https://docs.google.com/form s/d/e/1FAIpQLSczTJAArnc1 PbCvsDvIABdrP4bvV6PCGl _8EvsdsGUYhmfQNA/viewf orm?usp=sf_link
2.	S.Y.B.Sc	Google Classroom	Drive	1. https://classroom.google.com /c/MzE1MjcxNjQwMjk5 2. https://classroom.google.com /c/MTE3NjA0Nzg4Mzg 3. https://classroom.google.com /c/MTQzODgzNDI3NTQ 4. https://classroom.google.com /c/NDQ1ODU4Njk2MjE1
3.	S.Y.B.Sc	Test using Google form	Drive	1. https://docs.google.com/form s/d/e/1FAIpQLSfZynhNYTv 5wHywdvovA- B6ynNVEyXOz_qDOj400O 4SwgAtZg/viewform?usp=sflink2. https://docs.google.com/form s/d/e/1FAIpQLScZr_tM7akeiTnn-uJ7I-JtB- YuHavWEMy9GZyiy5tCP2a 01w/viewform?usp=pp_url

R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur Department of Electronics

The Details of ICT Pedagogy used in Teaching Learning Process For the academic year 2020-21

Sr. No.	Contents	Type of ICTMaterial	Source	Links
1.	S.Y.B.Sc	Quiz	Drive	https://docs.google.com/form s/d/e/1FAIpQLSfx7prClfqHT DHnGpZ2SpFURIW4PaFW O6E3y3H2R4EbgHFyzA/vie wform?usp=pp_url
2.	S.Y.B.Sc	Google Classroom	Drive	1. https://classroom.google.com /c/NDQ1ODU4Njk2MjE1 2.https://classroom.google.co m/c/NDQ3MDM2OTI4NTE 0
3.	S.Y.B.Sc	Test using Google form or Testmoz	Drive	1. https://docs.google.co m/forms/d/e/1FAIpQ LSci2rJEvv_TZiXaV YAk-nu9bnjd8s- GXnloz3VLO2dRFW yb- A/viewform?usp=sf_1 ink 2. https://docs.google.com/form s/d/e/1FAIpQLScZr_tM7akei Tnn-uJ7I-JtB- YuHavWEMy9GZyiy5tCP2a 01w/viewform?usp=pp_url 4. https://docs.google.com/form s/d/e/1FAIpQLScZr_tM7akei Tnn-uJ7I-JtB- YuHavWEMy9GZyiy5tCP2a 01w/viewform?usp=pp_url

R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur Department of Electronics

The Details of ICT Pedagogy used in Teaching Learning Process For the academic year 2021-22

Sr. No.	Contents	Type of ICTMaterial	Source	Links
1.	S.Y.B.Sc	Quiz	Drive	https://docs.google.com/form s/d/e/1FAIpQLSdo_p2_QvF MS40bltFKjsQnLQR8tYzrvd c14mnzJRMCSMZ_Ow/view form?usp=sf_link
2.	S.Y.B.Sc	Google Classroom	Drive	1. https://classroom.google.com /c/NDQ1ODU4Njk2MjE1 2.https://classroom.google.co m/c/NDQ3MDM2OTI4NTE 0
3.	S.Y.B.Sc	Test using Google form or Testmoz	Drive	1. https://docs.google.co m/forms/d/e/1FAIpQ LSci2rJEvv_TZiXaV YAk-nu9bnjd8s- GXnloz3VLO2dRFW yb- A/viewform?usp=sf_1 ink 2. https://docs.google.com/form s/d/e/1FAIpQLScZr_tM7akei Tnn-uJ7I-JtB- YuHavWEMy9GZyiy5tCP2a 01w/viewform?usp=pp_url 4. https://docs.google.com/form s/d/e/1FAIpQLScZr_tM7akei Tnn-uJ7I-JtB- YuHavWEMy9GZyiy5tCP2a 01w/viewform?usp=pp_url

Department Of Mathematics

R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College Shirpur

Student Centric Learning (Pedagogies Used)

Department of Mathematics

Pedagogy used for Teaching -

Participatory Learning, Classroom Teaching, Interactive Sessions and Cutting-Edge Practice, Blended Learning, Flipped classroom.

Tools and Materials used-

- Blackboard or whiteboard
- Projectors.
- Computers for practical demonstrations
- PPTs.
- Teaching and learning resources- Reference Books /Text books, other references, films, radio programs, multimedia, digital learning resources including video, audio, animations and images, expert lectures
- Software used- MS Visio, Programming software, etc.

Description of the Methods -

- a. Teaching methods are the broader techniques used to help students achieve learning outcomes, while activities are the different ways of implementing these methods.
- b. Practical Work: all teaching and learning activities in the sciences in which the student is actively involved and that allow the mobilization of science processes skills and scientific knowledge and that may be materialized by paper and pencil activities or observing and/or manipulating materials.

Outcomes (Learning Experience) -

- A strong sense of identity.
- Connection to and contribution with their world.
- A strong sense of wellbeing.
- Confident and involved learners.
- Soft skills.
- Learning Computers & Management allows students to learn about the Programming concepts and gain skills as logical & critical thinking, problem-solving, management skills.

Experiential Learning

Academic Year	Sr. No.	Method used	Content
2018-19	1.	Quiz	Mathematics

The "Quiz Competition" organize by KBCNMU Jalgaon and R.C.Patel Arts, Commerce and Science college shirpur, in department of Mathematics on 22 December 2018 on the occasion of "National Mathematics Day 2018".

Quiz Competition 2018-19



Academic Year	Sr. No.	Method used	Content
2019-20	1.	Quiz	Mathematics

The "Quiz Competition" organized by KBCNMU Jalgaon and R. C. Patel Arts, Commerce and Science College Shirpur in department of Mathematics on 22 December 2019 on the occasion of "National Mathematics Day 2019".

Quiz Competition 2019-20



Academic Year	Sr. No.	Method used	Content
2020-21	1.	Quiz	Mathematics

The "Quiz Competition" organize by KBCNMU Jalgaon and R.C.Patel Arts, Commerce and Science college shirpur, in department of Mathematics on 22 December 2020 on the occasion of "National Mathematics Day 2020".

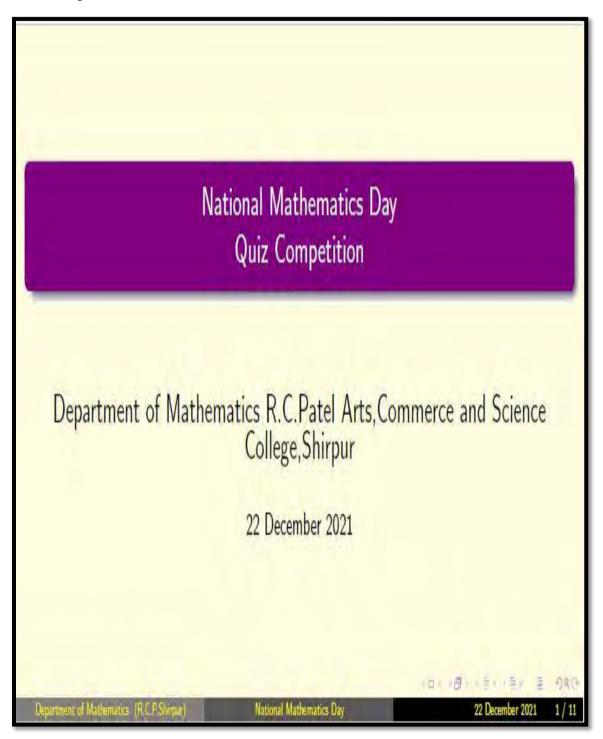
Quiz Competition 2020-21

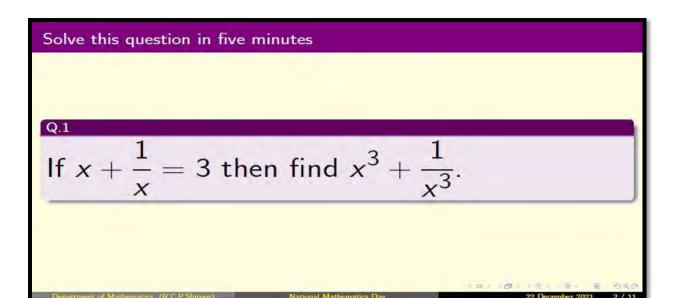


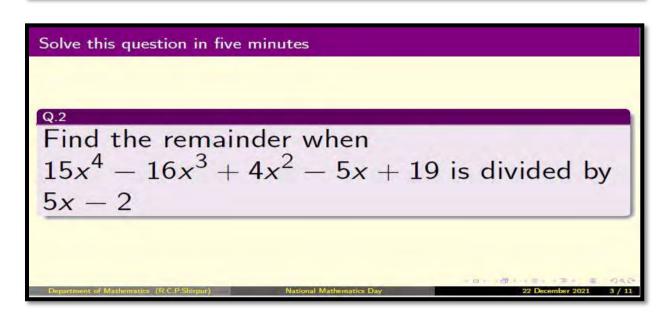
Academic Year	Sr. No.	Method used	Content
2021-22	1.	Quiz	Mathematics

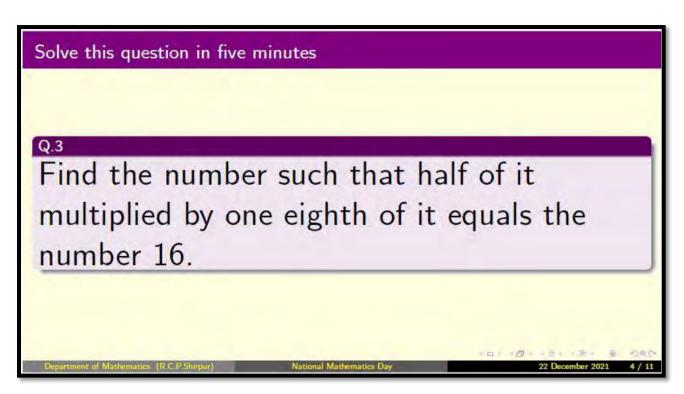
The "Quiz Competition" organize by KBCNMU Jalgaon and R. C. Patel Arts, Commerce and Science College Shirpur, in department of Mathematics on 22 December 2021 on the occasion of "National Mathematics Day 2021".

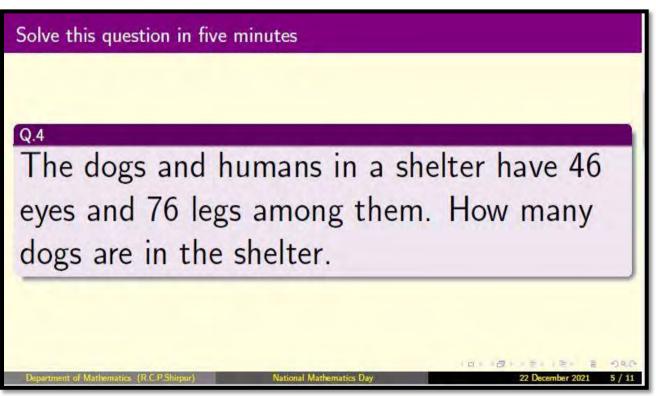
Quiz Competition 2021-22













	Sr. No.	Method used	Content
Academic Year 2022-23	1.	Quiz	Mathematics
2022-23	2.	Practical Experiments	MATLAB

The "Quiz Competition" organize by KBCNMU Jalgaon and R. C. Patel Arts, Commerce and Science College Shirpur, in department of Mathematics on 22 December 2022 on the occasion of "National Mathematics Day 2022".

Quiz Competition 2022-23





Practical Demonstration of MATLAB



Participative Learning

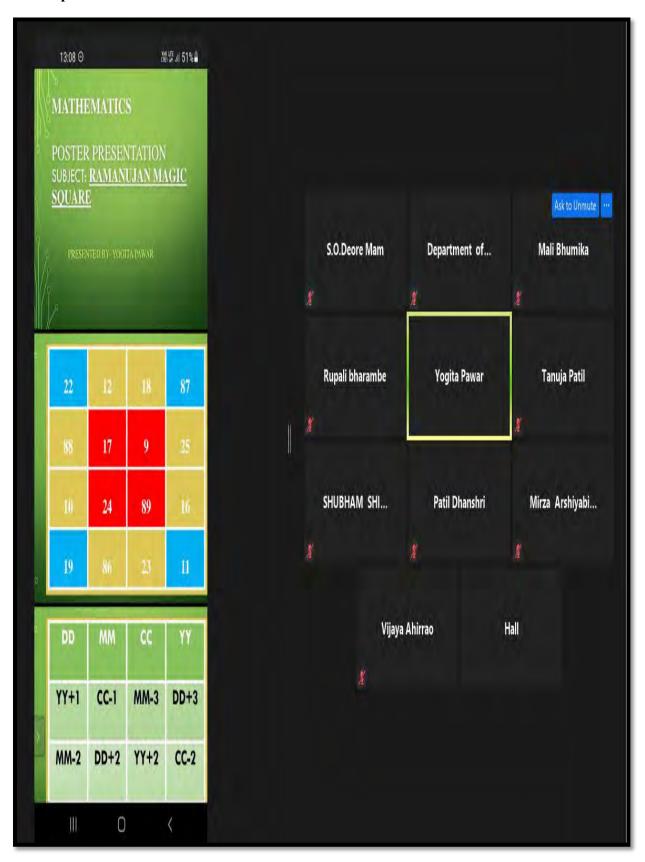
Academic Year	Sr. No.	Method used	Content
2018-19	1.	Poster Presentations	Differential topics & Pythagoras topics

Poster Presentation 2018-19



Academic Year	Sr. No.	Method used	Content
2019-20	1.	Poster Presentations	Ramanujan magic square

Poster presentation 2019-20

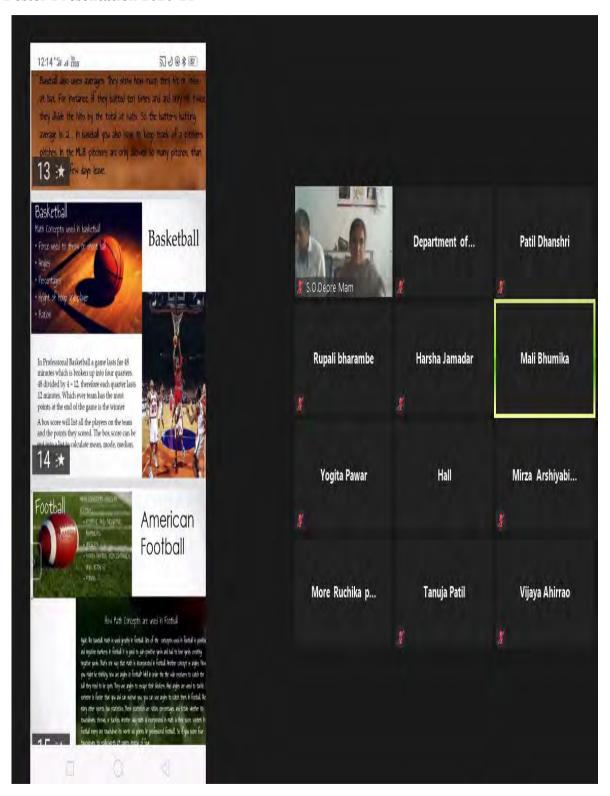


Poster Presentation



Academic Year	Sr. No.	Method used	Content
2020-21	1.	Poster Presentations	Mathematics

Poster Presentation 2020-21



Academic Year	Sr. No.	Method used	Content
2021-22	1.	Poster Presentations	Differential topics

Poster Presentation: 2021-22



Organizing Committee

CO-ORDINATOR

Prof. R. P. Mahajan

Head

Dept. of Mathematics

CONVENER

Dr. D. R. Patil

(Principal)

R. C. Patel A. C. S. College,

Shirpur

ORGANIZING SECRETARY

Mr. Kartik. B. Rokade

Organizing Committee members

Prof.G.S.Chaudhari

Ms. Rajashri R. Jadhav

Ms. Hemangini R. Chaudhari

Poster presentation







R.C.Patel Arts, Science and Commerce College, Shirpur, Dist. Dhule, Maharashtra.



CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFIED THAT

BHARAMBE RUPALI LILADHAR

of R C Patel ASC College, Shirpur

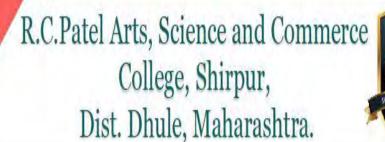
FOR GOT THIRD RANK IN

POSTER PRESENTATION

HELD ON 13TH JULY 2021.

Prof. R. P. Mahajan (Head of Department) C.C.PATEL APTICON NAMED AND APPENDING PROPERTY OF THE PROPERTY

Dr. D. R. Patil (Principal)





CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFIED THAT

MALI BHUMIKA DEVANAND

of R C Patel ASC College, Shirpur

FOR GOT SECOND RANK IN

POSTER PRESENTATION

HELD ON 13TH JULY 2021.

Prof. R. P. Mahajan (Head of Department) SHIRO SAN APTO COMMAND

Dr. D. R. Patil (Principal)

R.C.Patel Arts, Science and Commerce College, Shirpur, Dist. Dhule, Maharashtra.



CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFIED THAT

MIRZA ARSHIYA SHAKEEL BAIG

of R C Patel ASC College, Shirpur

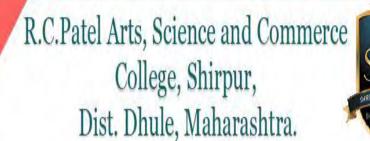
FOR PARTICIPATING IN

POSTER PRESENTATION

HELD ON 13TH JULY 2021.

Prof. R. P. Mahajan (Head of Department) SHIRO F FRONTILIAN

Dr. D. R. Patil (Principal)





CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFIED THAT

PATIL SNEHAL SHAILESH

of R C Patel ASC College, Shirpur

FOR GOT FIRST RANK IN

POSTER PRESENTATION

HELD ON 13TH JULY 2021.

Prof. R. P. Mahajan (Head of Department) SHIP OF THE ARISE

Dr. D. R. Patil

(Principal)

Academic Year	Sr. No.	Method used	Content
2022-23	1.	Poster Presentations	Differential topics

Poster Presentation and Science day 2022-23



Poster presentation



Academic Year	Sr. No.	Method used	Content
2018-19	1.	Ice-Breaking activity	Well-come function

Well-Come function:2018-19



Academic Year	Sr. No.	Method used	Content
2019-20	1.	Ice-Breaking activity	Well-come function

Ice-Breaking activity



Academic Year	Sr. No.	Method used	Content
2020-21	1.	Ice-Breaking activity	Well-come function

Well-Come function:2020-21



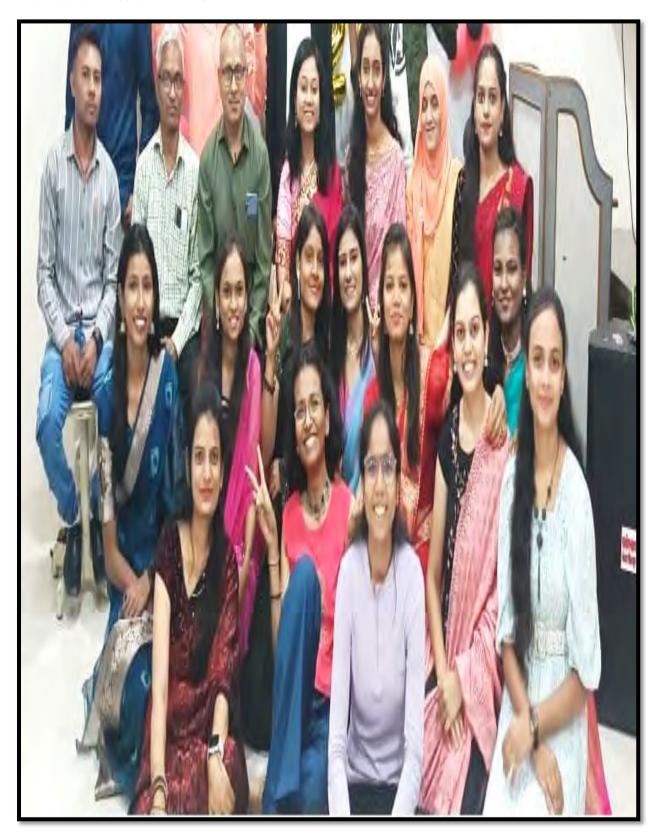
Academic Year	Sr. No.	Method used	Content
2021-22	1.	Ice-Breaking activity	Well-come function

Well-Come function:2021-22



Academic Year	Sr. No.	Method used	Content
2022-23	1	Ice-Breaking activity	Well-come function

Well-Come function:2022-23



R. C. Patel Arts, Commerce and Science College Shirpur ICT Enabled Teaching

Department of Mathematics

The Details of ICT Pedagogy used in Teaching Learning Process

For the academic year 2018-19 to 2022-23

Sr.No.	Contents	Type of ICT Material	Source	Links
1.	S.Y.B.Sc	Google Classroom	Drive	rcpasclms1@gmail.com
2.	T.Y.B.Sc	Google Classroom	Drive	rcpasclms11@gmail.com
3.	M.Sc-I	Google Classroom	Drive	rcpasclms11@gmail.com
4.	M.Sc-II	Google Classroom	Drive	rcpasclms11@gmail.com

Department of Botany

R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur

Student Centric Learning (Pedagogies Used)

Department of Botany

• Pedagogy used for Teaching –

Participatory Learning, Classroom Teaching, Interactive Sessions and Cutting-Edge Practice, Blended Learning, Flipped classroom.

Tools and Materials used-

- Familiarize themselves with the type of audio-visual aids, techniques and methods of teaching required for teaching of biological science.
- II. Evaluate students performance and provide remedial teaching.
- III. Develop a broad understanding of biological science.
- IV. Develop teaching competencies related to biological science at secondary level.

☐ Description of the Methods -

- a. Make an observation.
- b. Ask a question.
- c. Form a hypothesis, or testable explanation.

□ Outcomes (Learning Experience) -

- 1: This course helps to make them aware of wild plants their habit and habitat from field tour.
- 2: Connection to and contribution with their world.
- 3: To the fundamentals of totipotency, plant tissue culture techniques.
- 4: Students will aware about the basic concepts of biochemistry.
- 5. Students will get the structure, composition of primary and secondary metabolites
- 6: Soft skills.

Experiential Learning

	Sr. No.	Method used	Content
Academic Year 2021-22	1.	Project Work	M.Sc. Final Year Project
	2.	Study Tour	Maheshwar

2021-22 Project Student List

Sr. No.	Name of students	Title of Project	Name of Project Guide
1.	Miss.Vasave Tejaswini Magan	Study of pollen grains of flowers from campus of R. C. Patel	Ms. Yogita K. Girase
2.	Miss.Rajput Harshani Jitendra	college	
3.	Miss.Girase Divya Dhansing	D: 1: : : CA 1 :	Mr. Yogesh S. Koli
4.	Miss.Nikam Jayashri Mahendra	Biodiversity of Aero-algae in Shirpur city	
5.	Miss. Patil Poonam Sudam		
6	Miss. Borase Ashwini Dnyanshewar	Medicinal plant in Shirpur tahsil	Mr. Rohidas H. Pawara
8.	Miss.Sonawane Dipmala Pundlik		
9.	Miss. Kalyani Vilas Marathe	Isolation of Soil fungi in Shirpur Tahsil	Mrs. V. S. Shelke
10.	Miss. Saner Tejaswini Yuvraj		
11.	Mr. Patil Prashant Hemaraj	Isolation of Soil fungi in Shirpur Tahsil	Mrs. V. S. Shelke
12.	Miss. Rajput Kiran Ranjit		

Ms. Vijayalaxmi Shelke HOD Department of Botany

Whelke



Study Tour at Maheshwar for Botanical Variation in Trees.



Project Work



	Sr. No.	Method used	Content
Academic	1.	Project Work	M.Sc. Final Year Project
Year 2022-23	2	Industrial Visits /	T.Y B.Sc, M.Sc., I & II
	۷.	Tours	Tour

Project Work



CERTIFICATE

This is to certify that the present project work entitle "Medicinal plant" Is an original work carried out by Miss.Patil Priyanka Hemraj under my guidance and supervision at the Department of Botany R. C. Patel. Arts, Commerce and Science College, Shirpur, Dist-Dhule.

This work has not been submitted or published anywhere in the form of thesis or dissertation. We consider this work worthy for the partial fulfilment of degree of Master of Science in Botany.

(Mr Yogeshwar S. Koli)

Guide

Date: 02/06/23

Place: Shirpur





This is to certify that the present project work entitle "Preliminary Survey of The Anti -Arthritic Potential Plants of SES Urban" Is an original work carried out by Miss.Patil Priyanka Hemraj under my guidance and supervision at the Department of Botany R. C. Patel. Arts, Commerce and Science College, Shirpur, Dist-Dhule.

This work has not been submitted or published anywhere in the form of thesis or dissertation. We consider this work worthy for the partial fulfilment of degree of Master of Science in Botany.

(Mrs. Vijayalaxmi S. Shelke)

Head, Department of Botany

Date: 01606123

2.6.2023 02.0623

Place: Shirpur

138

This is to certify that the work contained in the project entitled "Floristic Survey of Angiosperm Families of Natural Vegetation of Shirpur" submitted by Ms. Solanki Priti Jagan for the award of the degree of M.Sc Botany to the R. C. Patel Arts, Commerce & Science College, Shirpur, is a record of bonafide research works carried out by her under my guidance.

I considered that the project dissertation has reached the standards and fulfilled the requirements of the rules and regulations relating to the nature of the degree. The contents embodied in the project dissertation have not been submitted for the award of any other degree or diploma in this or any other university.

Date: 2/05/2023

Place: Shirpur

(Mr. Rohidas H. Pawara)

Signature & Name of Guide





This is to certify that the work contained in the project entitled "Floristic Survey of Angiosperm Families of Natural Vegetation of Urbanised Shirpur" submitted by Ms. Solanki Priti Jagan for the award of the degree of M.Sc Botany to the R. C. Patel Arts, Commerce & Science College, Shirpur, is a record of bonafide research works carried out by her under my supervision.

I considered that the project dissertation has reached the standards and fulfilled the requirements of the rules and regulations relating to the nature of the degree. The contents embodied in the project dissertation have not been submitted for the award of any other degree or diploma in this or any other university.

Date: 2/05/2023

Place: Shirpur

. Vijayalaksmi Shelke)

Head, Department of Botany



This is to certify that the present project work entitle "ISOLATION OF SOIL FUNGI FROM SHIRPUR TALUKA" Is an original work carried out by Miss Patel Yamini Chandrakant under my guidance and supervision at the Department of Botany R. C. Patel Arts, Commers and Science College, Shirpur, Dist-Dhule.

This work has not been submitted or published anywhere in the form of thesis or dissertation. We consider this work worthy for the partial fulfilment of degree of Master of Science in Botany.

(Mrs Suruchi A.Sharma)

Guide

Date: 09/05/2023

Place: Shirpur





This is to certify that the present project work entitle "ISOLATION OF SOIL FUNGI FROM SHIRPUR TALUKA" Is an original work carried out by Miss. Patel Yamini Chandrakant under my guidance and supervision at the Department of Botany R. C. Patel Arts, Commers and Science College, Shirpur, Dist-Dhule.

This work has not been submitted or published anywhere in the form of thesis or dissertation. We consider this work worthy for the partial fulfilment of degree of Master of Science in Botany.

(Mrs. Vijayalaxmi S. Shelke)

Mhelke

Head, Department of Botany

Date: 09 | 05 | 2023

Place: Shirpur Sulatil 2. 8. 2023 02. 06.23

SHIRO SHIRO

Expermental Work



Practical Demonstration at Botany Lab



Project List 2022-23

Sr. No.	Name of students	Title of Project	Name of Project Guide
1.	Patil Yamini Chandrakant	Isolation of Rhizospear Fungi	
2.	Mahajan Neha Yuvaraj		Ms. Suruchi A. Sharma
3.	Suryawanshi Durgeshwari Sanjay	Isolation of Endophytic Fungi from Shirpur Taluka	Mr. Hemant A. Wagh
4.	Mahale Harshada Suresh	Hom Simpur Tatuka	Wir. Hemant A. Wagii
5.	Patil Dipali Dnyaneshwar	Study of Various Plants of Apocynaceae Family and Their	
6.	Goyakar Devidas Krushna	Medicinal Uses	Mr. Rohidas H. Pawara
7.	Patil Priyanka Hemaraj	Medicinal Plants	Mr. Yogesh S. Koli
8.	Pawara Hira Bila		
9.	Patil Riken Kantilal		
10.	Pawara Sangita Bhavsing	Extraction Pectin from Orange Fruit Peels	
11.	Barela Nita Birsing		Mrs. V. S. Shelke
12.	Wagh Sapana Dnyaneshwar		
13.	Wagh Aarati Shaligram	Formulations and evaluation of	Mrs. Shital M. Tawade
14.	Behare Bhagyashri Vasantrao	Herbal Face Pack Using Herbal	
15.	Kadi Madhura Rajendra	Anatomical Study of Certain of	Mrs. Shital M. Tawade
16.	Pawar Shubhangi Vallabh	The Family Cucurbitaceae	1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2

17.	Patil Sunita Sunil		
18.	Solanki Priti Jagan	Floristic Survey of Angiosperm Families of Natural Vegetation of Urbanised Shirpur	Mr. Rohidas H. Pawara

Ms. Vijayalaxmi Shelke HOD Department of Botany

Whelke



Practical Preparation at Botany Lab



Project Work 2022-23



Project Work



Project Work



Participative Learning

	Sr. No.	Method used	Content
Academic Year 2021-22	1.	Group Discussion	Group Discussion on Ecology
	2.	Poster Presentations	Poster presentation on medicinal plants

Group Discussion on Ecology



Poster Presentations



Poster Presentation Inuagration



Poster Presentation



	Sr. No.	Method used	Content
Academic Year 2022-23	1.	Group Discussion	Botanical Variation in Trees
	2.	Poster Presentations	Innovations in science

Poster Presentations on Innovations in science



Problem Solving

Academic Year	Sr. No.	Method used	Content
2020-21	1.	Expert Talk	Career Counselling

Expert Talk on Career Counselling



R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur Department of Botany

The Details of ICT Pedagogy used in Teaching Learning Process for the academic year 2018-19 To 2022-23

Sr.No.	Contents	Type of ICTMaterial	Source	Links
1.	Angiospem	Audio Lecture	Drive	https://drive.google.com/file/d/1 ROI_chKDFfmj1fyUzqVTDqO DJQ-9xdgR/view?usp=sharing
2.	Plant Physiology	Video Lecture	Drive	https://drive.google.com/file/d/1 yHn1pmRek7Ou2a61QEQO5m 7Ro4Yx7b8Q/view?usp=drives dk
3.	Angiospem	You-tube Video	Drive	https://drive.google.com/file/d/1 grYVZuvnARM642v2199ytQW u5NWPRryU/view?usp=sharing
4.	Test	Google Meet	Drive	https://docs.google.com/forms/d /1EN5bfjo7KugYU7A7VkULV E0He7DZ9TCLOcZ3PA5k06s/ edit?usp=drivesdk
5.	Introduction of Botany	Google Classroom	Drive	https://classroom.google.com/c/ NDQ5NTMwMzI2MDUx?cjc= hdmspfx
6.	Test	Test using Google form or Testmoz	Drive	https://docs.google.com/forms/d /14MgVluPvh8b9NQuQonukFx TeFka2hd7GPXIhbQpzOFA/edi t?usp=drivesdk
7.		PPT	Drive	https://drive.google.com/file/d/1 AMsa- P0OzP0E2dlSEo_TYrpq0l7sl8y 5/view?usp=sharing
8.	Theory	Smartboard Use		For lecture as well as practicals

Department of Zoology

R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur

Student Centric Learning (Pedagogies Used) Department of Zoology

• Pedagogy used for Teaching –

Participatory Learning, Classroom Teaching, Interactive Sessions and Cutting-Edge Practice, Blended Learning, Flipped classroom.

Tools and Materials used-

- a. Blackboard or whiteboard
- b. Projectors.
- c. Computers for practical demonstrations
- d. PPTs.
- e. Teaching and learning resources- Reference Books /Text books, other references, digital learning resources including video, audio, animation and images, expert lectures

☐ Description of the Methods -

- 1 Teaching methods are the broader techniques used to help students achieve learning outcomes, while activities are the different ways of implementing these methods.
- 2 Practical Work: all teaching and learning activities in the sciences in which the student is actively involved and that allow the mobilization of science processes skills and scientific knowledge. Temporary preparation of materials for light microscopy can be made for quick preliminary investigation. A number of stains may be used for staining purpose.
- 3. A microtome is used to make thin slices of tissue. The cut tissue is floated over a water bath, in order to eliminate wrinkles and distortion in the tissue, and picked up on a slide.

□ Outcomes (Learning Experience) –

- 1. Learning outcomes describe the measurable skills, abilities, knowledge or values that students should be able to demonstrate as a result of a completing a course.
- 2. Creating a connection between teaching and learning, between professors and students
- 3. Enabling them to truly master the content of the course.
- 4. To gain a more complete understanding of their intended learning outcomes.

Experiential Learning

Academic	Sr. No.	Method used	Content
Year 2018-19	1.	Project Work	M.Sc Project

Project Work



This is to certify thant **Prashant Kailas Mali** form T.Y.B.Sc.Zoology has satisfactori carride out project work On '' <u>Type of Poultry Breeds</u> '' and submitted the report in the Premises of Department of Zoology under the guidance

Of Prof.Dr.M.C.Agale during year 2018-2019

Date:

Place:-Shirpur

Internal Examiner:-

External Examiner:-

Project Guide:-Dr.M .C. Agale

Head
Department of Zoology
Popular Arts, Com. & Sci. College
Popular Information

R.C.Patel Arts, Commerce and Science Shirpur Dist-Dhule.

2

This is to certify that the Project Report Titled

Identification of birds in shirpur area For T.Y.B.Sc is a Work carried out by "Sayyed Farhatnaaz Sajidali" Of T.Y.B.Sc Zoology of R.C.Patel Art, Commerce and Science College Shirpur For fulfilment of B.sc Course Of North Maharashtra University Jalgaon Under Our Supervision in the Department Of zoology In the Academic Year-2018-2019.

Date- 12/3/2019

Place-

Internal Examiner-

External Examiner-

Project Guide- Dr.M.C. Agale.

Head
Department of Zoology
R.C.Patel Arts, Com. & Sci. College
Department of Distribution logy

R.C.Patel ACS College Shirpur.

This is certify that the project report on Breeds of Dairy Cattle From T.Y.Bsc is a work carried out by Ms. Agale Trupti Rajendra From Ty.Bsc Zoology of R.C.Patel Arts, Commerce and Science College Shirpur For fulfilment of Bsc Course K.B.C. North Maharashtra University Jalgaon Under our supervision in the department of Zoology In the Academic Year 2018-2019

Date:

Place: Shirpur

Internal Examiner:

External Examiner:

Project Guide: Dr.M.C.Agale

Shirpur, Dist. Dhule atel ACS. College Shirpur

This to Certify That The Project Report Title Goat Farming For T.Y.Bsc is a Work Carried Out By "Ms.khatik Minaj Sadik" Of T.Y.Bsc Zoology of R.C.Patel Arts, Commerce and Science College Shirpur For Fulfilment of BSC Course Of North Maharashtra University Jalgaon Under Our Supervision In The Department of Zoology In The Academic Year 2019-2020

Date: 12 /3/2019

Place:

Internal Examiner:

External Examiner:

Project Guide: Dr.M.C. Agale

Head

atel ACS College Shirpur.

This is to certify that the the Project titled

"IDENTIFICATION OF SPIDERS IN SHIRPUR" for T.Y. B.SC(ZOOLOGY) Is a work carried out by

Ms. Prajakta Shivram Patole of T.Y. B.sc Zoology of R.C. Patel Arts, Commerce and Science College, Shirpur for fulfillment of B.sc course of North Maharashtra University, Jalgaon under our supervision in the Department of Zoology, in the Academic Year: 2018-2019

DATE: 12.03.2019

PLACE:

INTERNAL EXAMINOR

EXTERNAL EXAMINOR

R.C. PATEL Art's,

R.C.Patel Arts, Com. & Sci. College Shirpur, Dist. Dhule

Commerce & Science college Shirpur.

Dist- Dhule

	Sr. No.	Method used	Content
Academic Year 2019-20	1.	Field Work	Bird Watching Program at Anerdam Wildlife Sanctuary
2019-20	2.	Industrial Visits	Biodiversity of Anerdam Wildlife

Project Work

R.C.PatelArts, Commerce & Science College SHIRPUR

CERTIFICATE

This is to certify that WADILE SHARLITA SHARADCHANDRA from T.Y.B.sc. Zoology has satisfactorily carried out project work on A Studyon Snakes in India and submitted the report in the premises of Department of Zoology under the guidance of Dr. Mahendra. C. Agale during year 2010-2010

Date: 13 / 02 /2020

Place :Shirpur

Internal Examiner:

External Examiner:

Project Guide :Dr.M.C.Agale

Department of Zoology

Head
Department of Zoology
R.C.Patel Arts, Com. & Sci. Colleg.
Shirpur, Dist. Dhule

Head

R.C.PatelArts,Commerce& Science College

Shirpur

This is to certify that MAHAJAN KALYANI ARUN from B.sc (Zoology) has satisfactorily carried out project work on "VIRAL DISEASES-SYMPTOMS, PREVENTION AND TREATMENT" and submitted the report in the premises of Department of zoology under the guidance of Prof. M.C. Agale during the year 2019-20

Date:13/02/2020

Place:Shirpur

Internal Examiner:

External Examiner:

Project Guide:-Dr.M.C.Agale



Department of Zoology
R.C.Patel Arts, Com. & Sci. College
Shirpur, Dist. Dhule
Department of zoology

R.C.Patel Arts, Commerce and Science College, Shirpur.

Dist-Dhule

- Biodiversity of Anerdam Wildlife Sanctuary and surroundings
 Bird Watching Program at Anerdam Wildlife Sanctuary.



Academic Year	Sr. No.	Method used	Content
2020-21	1.	Field Work	Poultry Farm
2020-21	2.	Expert Talk	Biodiversity

Field Work - Visit to Poultry Farm.





Expert Talk- Biodiversity



Expert Talk- Biodiversity



Academic	Sr. No.	Method used	Content
Year 2021-22	1.	Project Work	Project List M.ScII

Project Work



The Shirpur Educational Trust (RCPET) R.C.Patel. ASC College Shirpur, Dist – Dhule. (M.S.)

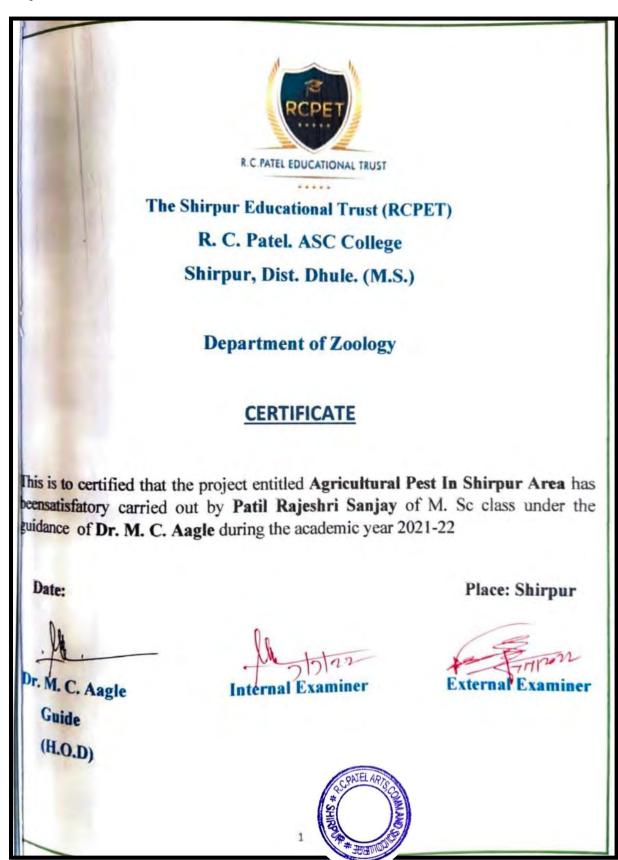
Department of Zoology

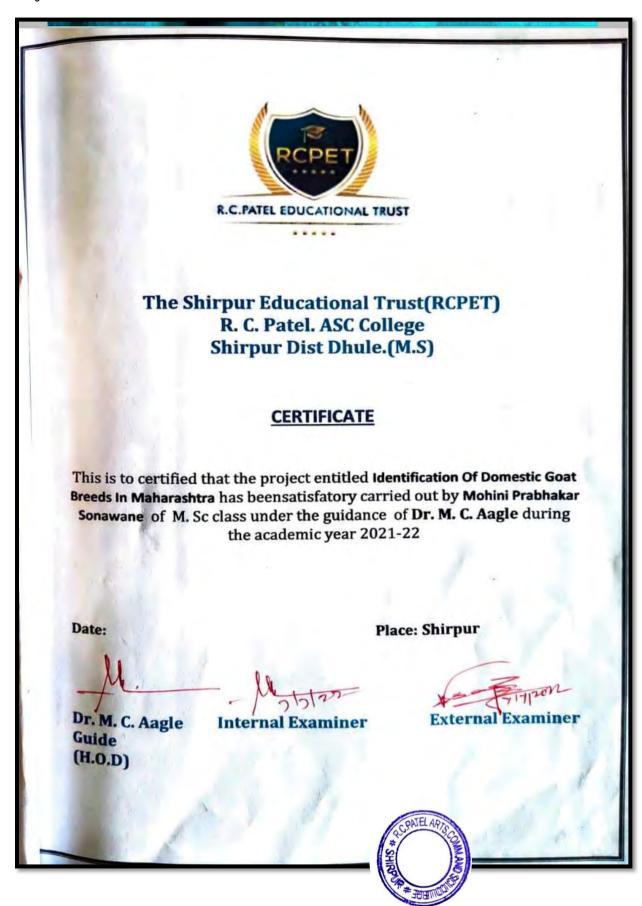
CERTIFICATE

This is certify that **NEHA CHANDRAKAN SONAR** from Msc (Zoology) has satisfactorily carried our project work on "**STUDIES OF BIRDS FOUND IN SHIRPUR**" and submitted the report in the premises of Department of zoology under the guidance of **Dr. M.C.Aagle** during the academic year 2021-22.

Date: Place: Shirpur

Dr.M.C.Aagle Internal Examiner External Examiner





THE SHIRPUR EDUCATION TRUST (RCPET) R. C. PATEL ASC COLLAGE,

SHIRPUR, DIST. DHULE. (M.S.)



DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certified that the project work entitled "Estimation of Vitamin C from different sources" has been satisfactory carried out by Patil Nutan Bhatu of M.Sc class under my guidance and supervision at the Dept. of Zoology RCPCS.

This work has not been submitted or pubished anywhere in the form of thesis or dissertation. I consider this work for the partial fulfilmemt of degree master of science in Zoology.

Date:

Dr.M.C.Aagle(H.O.D)

Internal Examiner

External Examiner

Place: Shirpur



THE SHIRPUR EDUCATIONAL TRUST (RCPET) R. C. PATEL. ASC COLLEGE SHIRPUR, DIST. DHULE. (M.S.)

Department of Zoology

CERTIFICATE

This Is To Certified That The Project Entitled Study Of Indian Owls Has Been Satisfatory Carried Out By Pawara Manisha Shendya Of M. Sc Class Under The Guidance Of Dr. M. C. Aagle During The Academic Year 2021-22

Date: / /2022

Place: Shirpur

Dr. Aagle Sir Internal Examiner External Examiner Guide

(H.O.D)

Project List M.Sc.-II 2021-22

Sr. No.	Name of Students	Project title	Name of Project Guide
1.	Chaudhari Dhavantari Sanjay	Indian Butterflies and their species	Dr. M. C. Agale
2.	Jadhav Yogandhara Kiran	Study of Commercial poultry egg layers	Dr. M. C. Agale
3.	Mahajan Kalyani Arun	Viral Diseases	Dr. M. C. Agale
4.	Mali Mansi Subhash	Fish Diversity in Shirpur Market	Dr. M. C. Agale
5.	Patil Sonal Nimba	Role of Honey bee in Agriculture	Dr. M. C. Agale
6.	Patil Sunita Nimba	Sickel Cell Anemia in Nandurbar District	Dr. M. C. Agale
7.	Patil Rajeshree Sanjay	Agricultural Pest in Shirpur	Dr. M. C. Agale
8.	Pawara Manisha Shendya	Study of Indian Owl	Dr. M. C. Agale
9.	Sonawane Mohini P	Study of Domestic Goat Breeds	Dr. M. C. Agale
10.	Sonar Neha Chandrakant	Study of Birds in Shirpur	Dr. M. C. Agale
11.	Wadile Shrlita Sharad	Study of Poisonous Snake in Shirpur	Dr. M. C. Agale
12.	Patil Nutan Bhatu	Estimation of Vit C	Dr. M. C. Agale
13.	Pawara Ajay Darasing	Study of Mosquito Species	Dr. M. C. Agale

Dr. M. C. Agale

HOD

Department of Zoology



Poster presentation Work- महिलासक्षमीकरणवमहिलासुरक्षा" पोस्टर्सकॉम्पिटीशन





	Sr. No.	Method used	Content
Academic Year 2022-23	1.	Industrial Visits	Visit to water filtration plant Educational Tour
	2.	Project Work	Project M.ScII

Project Work



The Shirpur Educational Trust (RCPET)

R. C. Patel. ASC College Shirpur Dist Dhule.(M.S)

CERTIFICATE

This is to certified that the project entitled has been satisfactory carried out by Ajay Himmat Valvi of M.Sc class under the guidance of Dr. Vandana Patil during the academic year 2022-2023

Date:

SHIP TO THE ARTO CONTROL OF THE SHIP TO TH

Place: Shirpur

Dr. Vandana Patil

Dr. M₁Cud Agale
Department of Zoology
R. C. Putel Arts, Com. & Sci. College
Shirpur, Dist. Dhule

External Examiner
Dr. Sodefule W.S.

ZIPage



R.C. PATEL COLLEGE SHIRPUR

CERTIFICATE

This Is to Certify that presen project work entitled, "INVESTIGATION THE RICHNESS OF SPIDER SPECIES IN MAHARASHTRA" is a project work carried out by AJAY RAMESH JADHAV under my guidance and supervision at the department of Zoology R. C.PATEL COLLEGE, SHIRPUR.

This work has not been Submitted or Published anywhere in the form of thesis or dissertation. I consider this work worthy for the partial fulfilment of degree of Master of Science in Zoology

Dr. M.C Agale

Department of Zaology

R. C. Patel Arts, Com. & Sci. College

Department of Etology

R.C.PATEL COLLEGE

SHIRPUR

Mrs. Surekha K. Kurankar

05/06/2023

Project Guide,

Department of Zoology

R.C.PATEL COLLGE

SHIRPUR



Shirpur Education Society's

R. C. Patel ACS college, shirpurShirpur,

Dist. Dhule. (M. S.)

Department of zoology

Certificate

This is to certify that the Special Study entitled "Effects of Fertilizer on Soil" has been carried out by Nilam Shivaji Jamadar of M.Sc class under the guidance of Dr M.C.Agale during the A. Y. 2022-23.

Date:

Dr M.C.Agale

Head

Department of Zoology
R. C. Patel Arts, Com. & Sci. Colleg.
Shipper, Dist. Dhule

Internal Examiner

Place: Shirpur

External Examiner

SHIP



The Shirpur Educational Trust(RCPET) R. C. Patel. ASC College Shirpur Dist Dhule.(M.S)

CERTIFICATE

This is to certified that the project entitled **Production**Of Biofertilizershas been satisfactory carried out by Bhavesh

Balu Patil of M.Sc class under the guidance of Surekha K.

Kurankar during the academic year 2022-2023

Date:

Place: Shirpur

Surekha K. Kurankar

Dr. M.C. Agale

External Examiner

Dr. Sadofule H. G.

2

Project List M.Sc.-II 2022-23

Sr. No.	Name of Students	Project Title	Name of Project Guide
1.	Borse Pranali Jagdish	Estimation of Vitamin C Sources	Dr. M. C. Agale
2.	Gangawane Vivek Umesh	Study of Poultry Breeds and their Management	Dr. M. C. Agale
3.	Gavit Dipali Vasant	Role of Honey Bee in agriculture	Dr. M. C. Agale
4.	Jadhav Ajay Ramesh	Investigating the Richness of Spider Species in Maharashtra	Dr. M. C. Agale
5.	Jamadar Nilam Shivaji	Effect of Fertilizer on soil	Dr. M. C. Agale
6.	Kuwar Pooja Santosh	Study of Common Viral Diseases in Human	Dr. M. C. Agale
7.	Mahale Arun Sitaram	Awareness of sickle Cell diseases and Prevention of Sickle Circes in Patients	Dr. M. C. Agale
8.	More Mayuri Bhikanrao	Grain Shield: Effective Pest Control Measures for Stored Grains	Dr. M. C. Agale
9.	Patil Bhavesh Balu	Production of Biofertilizers	Dr. M. C. Agale
10.	Pawara ArunManilal	The Wonder of Bird migration in Maharashtra	Dr. M. C. Agale
11.	Sapkal Aniket Baban	Study of venomous and Non- venomous Snakes in Maharashtra	Dr. M. C. Agale
12.	Valvi Ajay Himmat	Study of Fish diversity in Shirpur	Dr. M. C. Agale
13.	VasaveYahoshvaSubhash	Study of History of Fresh Water Fish Channa striata	Dr. M. C. Agale
14.	WaradeHimani Anil	Commercial Goat Farming in Maharashtra	Dr. M. C. Agale

Dr. M. C. Agale

HOD

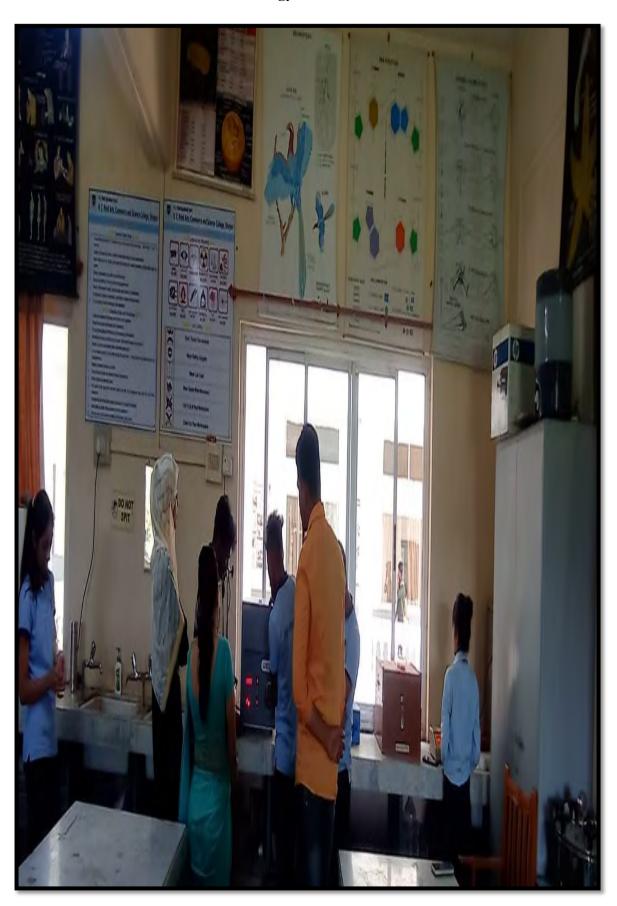
Department of Zoology



Demonstration of Instruments at Zoology Lab

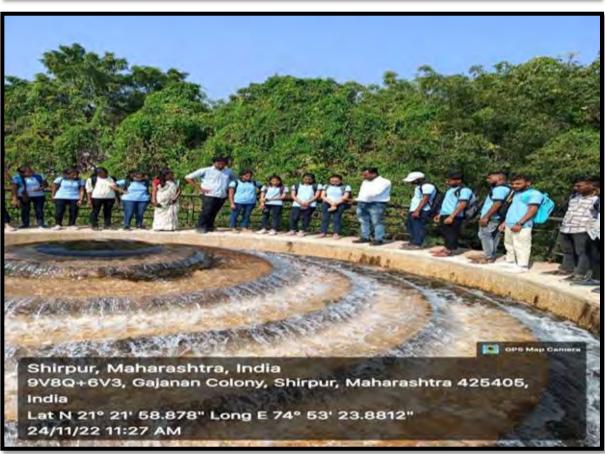


Demonstration of Instruments at Zoology Lab



Industrial Visits at Water filtration plant





R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur Department of Zoology The Details of ICT Pedagogy used in Teaching Learning Process

For the academic year 2018-19 to 2022-23

Sr. No.	Content	Types of ICT Material	Source	Link
1.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwOTY 2Mjc1NjBa/m/OTA3NzA5Njc4Mjla/detail s
2.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwOTY 2Mjc1NjBa/m/OTA3NzA5Njc4ODFa/deta ils
3.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwOTY 2Mjc1NjBa/m/OTgyOTQwNzg4MDRa/det ails
4.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwOTY 2Mjc1NjBa/m/MzM3MTM0NzE2NjNa/de tails
5.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwOTY 2Mjc1NjBa/m/MzM3MTM0NzE3NDBa/d etails
6.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwOTY 2Mjc1NjBa/p/MjYyNjM5MzI0MjM3/detai ls
7.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwOTY 2Mjc1NjBa/p/MjYyNjk4MzI2OTQ2/detail s
8.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwOTY 2Mjc1NjBa/p/MjM0NDMwMTg4OTk4/de tails
9.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwOTY 2Mjc1NjBa/p/MjIzOTIwNTEwMDMz/det ails
10.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwOTY 2Mjc1NjBa/p/MjIzMDcyNDU5MDU3/det ails
11.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/p/NDQ5ODA3MTc0ODUz/deta ils
12.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/p/NDQ5NjM5MDMzOTQ0/det ails
13.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/p/NDQ2Njc4NzEzMzU0/details
14.	S.Y.B.Sc	Google	Drive	https://classroom.google.com/c/MjcwODc5

		Classroom		MzI2NzJa/p/MzYwMzgzMjE2NzQx/detail
15.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/a/Mjg1MzYxNDY4MTEz/detai ls
16.	S.Y.B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/p/MjQyMDU2MzcxNjUy/detail <u>s</u>
17.	M.Sc. I	Google Classroom	Drive	https://classroom.google.com/c/MjgzOTk5 OTY0NjM1/p/NDQ3MjExODM4ODcw/d etails
18.	M.Sc. I	Google Classroom	Drive	https://classroom.google.com/c/MjgzOTk5 OTY0NjM1/p/NDMxNDk5NTAxMDAy/d etails
19.	M.Sc. I	Google Classroom	Drive	https://classroom.google.com/c/MjgzOTk5 OTY0NjM1/p/NDQ2Njk4NzkxMzg3/detai ls
20.	M.Sc. I	Google Classroom	Drive	https://classroom.google.com/c/MjgzOTk5 OTY0NjM1/p/NDQ2Njk2NDg3ODU0/det ails
21.	M.Sc. I	Google Classroom	Drive	https://classroom.google.com/c/MjgzOTk5 OTY0NjM1/p/NDQ2Njg2NzcwNzY5/deta ils
22.	T Y B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/a/Mjg1MzYxNDY4MTEz/detai ls
23.	T Y B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/m/MTI1MDY1NzQ1MTg2/deta ils
24.	T Y B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/m/OTkyMzUxNzI5ODla/details
25.	T Y B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/m/OTkyMzUxNzI4MjVa/detail
26.	T Y B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/m/OTkyMzUxNzI3OTFa/detail
27.	T Y B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/m/OTkyMzQ4NzQ3MjFa/detail s
28.	T Y B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/m/NjYwMDEwMTU0MDBa/de tails
29.	T Y B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/m/MjcxMDE4NzM3ODda/detai ls
30.	T Y B.Sc	Google Classroom	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/m/MjcwOTI3NzU2MTha/detail s

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31.	T Y B.Sc	Classroom	Drive	MzI2NzJa/m/MjcwOTY4MzkwNzBa/detai ls
		Google		https://classroom.google.com/c/MjcwODc5
32.	T Y B.Sc	Classroom	Drive	MzI2NzJa/m/MjcwOTY4MzkwNTFa/detai
		Google		https://classroom.google.com/c/MjcwODc5
33.	T Y B.Sc	Classroom	Drive	MzI2NzJa/m/MjcwOTY4MzkwNDNa/deta
		a 1		ils https://classroom.google.com/c/MjcwODc5
34.	T Y B.Sc	Google Classroom	Drive	MzI2NzJa/m/MjcwOTY4Mzg2MzZa/detai
		Classicom		lstray/ologoroom goodle com/o/MisyyODo5
35.	T Y B.Sc	Google	Drive	https://classroom.google.com/c/MjcwODc5 MzI2NzJa/m/MjcwOTE0NjMzMTla/detail
		Classroom		<u>s</u>
36.	M.Sc.	Google	Drive	https://classroom.google.com/c/MjgzOTk5 OTY0NjM1/p/NDQ1ODY3NjUzMTQ3/de
30.	MI.SC.	Classroom	Dilve	tails
		Google		https://classroom.google.com/c/MjgzOTk5
37.	37. T Y B.Sc	Classroom	Drive	OTY0NjM1/m/MjkzNDk1MjI5NDgw/deta ils
		C1 -		https://classroom.google.com/c/MjgzOTk5
38.	T Y B.Sc	Google Classroom	Drive	OTY0NjM1/m/MjkzNDk0NDEyMDEx/de
				https://classroom.google.com/c/MjgzOTk5
39.	T Y B.Sc	Google	Drive	OTY0NjM1/m/MjkzNDk0NDEyMDEx/de
		Classroom		tails
40.	S Y B Sc	Google	Drive	https://classroom.google.com/c/MjcwOTY 2Mjc1NjBa/p/MjYyNjk4MzI2OTQ2/detail
40.	51550	Classroom	Dilve	S
		Google		https://classroom.google.com/c/MjcwOTY
41.	S Y B Sc	Classroom	Drive	2Mjc1NjBa/p/MjM1NzQxNzQyNDQ1/det ails
		Cocala		https://classroom.google.com/c/MjcwODc5
42.	T Y B.Sc	Google Classroom	Drive	MzI2NzJa/m/OTAwMzQyNjg2MTJa/detai
				https://classroom.google.com/c/MjcwODc5
43.	T Y B.Sc	Google	Drive	MzI2NzJa/m/MzI3MzkwOTQ3ODBa/detai
		Classroom		<u>ls</u>

Department Of Chemistry

R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur

Student Centric Learning (Pedagogies Used)

Department of Chemistry

• Pedagogy used for Teaching -

Participatory Learning, Classroom Teaching, Interactive Sessions and Cutting-Edge Practice, Blended Learning, Flipped classroom.

Tools and Materials used-

- a. Blackboard or whiteboard
- b. Projectors.
- c. Computers for practical demonstrations
- d. PPTs.
- e. Teaching and learning resources- Reference Books /Text books, other references, digital learning resources including video, audio, animation and images, expert lectures

• Description of the Methods -

- a. Teaching methods are the broader techniques used to help students achieve learning outcomes, while activities are the different ways of implementing these methods.
- b. Practical Work: all teaching and learning activities in the sciences in which the student is actively involved and that allow the mobilization of science processes skills and scientific knowledge and that may be materialized by paper and pencil activities or observing and/or manipulating materials.

• Outcomes (Learning Experience) -

- i. A strong sense of identity
- ii. Connection to and contribution with their world.
- iii. A strong sense of wellbeing.
- iv. Confident and involved learners.
- v. Soft skills.
- vi. Learning Computers & Management allows students to learn about the Programming concepts and gain skills as logical & critical thinking, problem-solving, management skills.

Experiential Learning

Academic Year	Sr. No.	Method used	Content
2018-19	1.	Project Work	M.Sc. II
2010-19	2.	CAT exam	T.Y.B.Sc.

Project List (2018-19) M.Sc.-II

Sr.No	Name of Student	Project Title	Name of Project Guide
1.	Bhamare Akash Daulat	(NH4)2HPO4	
2.	Chaudhari Neha Ambalal	catalysed one pot	
3.	Chavan Bhavesh Ravindra	synthesis of 4-	Dr. J. P. Mahashashabde
4.	Dhangar Sandip	arylideine-3-	BIT OF TAXABLE MADE AND ADDRESS OF TAXABLE MADE AND ADDRES
	Dnyaneshwar	methyl-5(4-OH)-	
	Bilyanosiiwai	ones	
5.	Girase Jaypasing Nimba		
6.	Gujar Vipul Dipak	One pot synthesis of	Mr. J. P. Sonawane
7.	Jadhav Mayur Rajendra	Dihydropyrimidines	Will Controlled
8.	Jadhav Pratik Sudhakar		
9.	Jain Puja Pankajlal	Synthesis of New	
10.	Kasar Rohan Rajendra	pyrazoles and their	Mrs. R. B. Chaudhari
11.	Koli Bhatu Khanderao	biological	Wirs. R. D. Chaudhari
12.	Mahajan Pavan Sudhakar	applications	
13.	Mahajan Siddheshwar		
	Sopandeo	One not synthesis of	
14.	Padvi Roben Motiram	One pot synthesis of Dihydropyrimidines	Mr. S. B. Chaudhari
15.	Patel Rinkal Sanjay	Diffydropyffifidiffes	
16.	Patil Aishwarya Kishor	-	
17.	Patil Ajay Prakash	Carathania of Nava	
18.	Patil Amol Gulabrao	Synthesis of New	
19.	Patil Ankita Keshav	Pyrazoles and their	Ms. K. P. Behare
20.	Patil Dipika Bhaskar	Biological	
21.	Patil Mrunal Nimba	Applications	
22.	Patil Nikita Uddhav	Synthesis of Azo	Mr. C. C. D411
23.	Patil Nilesh Dnyaneshwar	Dyes and their	Mr. S. S. Patil

24.	Patil Pravin Shatrughna	applications	
25.	Patil Vipul Ravindra		
26.	Patole Bhaiyya Dilip		
27.	Pawar Vaibhav Narendra		
28.	Rajput Mahendrasing		
	Umedsing	One Pot Synthesis	
29.	Sonawane Chetan	of	
	Himmatrao	Duihydropyrimidine	Mr. G. M. Vanjari
30.	Suryawanshi Kiran Charan	s	
31.	Thorat Sapana Vasant		
32.	Wagh Chandrakant		
	Dnyaneshwar		

- Chahushabole

Dr. J. P. Mahashbde HOD Dept. of Chemistry



Short Research Project Certificate

R.C.PATEL A.C.S. COLLEGE, SHIRPUR



DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project report on "(NH₄)₂HPO₄ Catalyzed

One Pot Synthesis of 4-arylidene-3-methylisoxazol-5(4H)-ones" has
been submitted by Mr.Jaipalsing Nimba Girase. In part fulfillment of
degree of Master of Science in Organic Chemistry under our guidance and
supervision in the department of Organic chemistry, under the aegis of
North Maharashtra University, Jalgaon.

The material that has been obtained from other sources has been duly acknowledged in the report. The work has not been submitted elsewhere for a degree or other academic award.

Dr. J.P.Mahashabde

Head

Mr. J. P. Sonawaye

Guide

1 | (NH₄)₂HPO₄ Catalyzed One Pot Synthesis of 4-arylidene-3-methylisoxazol-5(4H)-ones

Chemistry Ability Test Exam



Academic	Sr. No.	Method used	Content
Year 2019-20	1.	Project Work	M.Sc.II online

Project List (2019-20) M.Sc.-II

Sr. No.	Name of Students	Project Title	Name of Project Guide
1.	Barela Rupla Gumanya		
2.	Dhangar priyanka Parshuram	- Synthesis & Characterization of	D I D M 1 1 1 1
3.	Patil Dhiraj Ravindra	some deep eutectic	Dr. J. P. Mahashabde
4.	Patil Jyotsna Suresh	Solvent	
5.	Bari Sonal Hari	Green Synthesis of	
6.	Deore Ashwini Bhanudas	benzimidazoles using dragon fruit peels water extract	Mr. J. P. Sonawane
7.	Bhamare Nisha Bhagwan		
8.	Baviskar Neha Ashok	Ionic Liquid Catalysed	Mrs. R. B. Chaudhari
9.	Jagtap Rushikesh Rajesh	One Pot Synthesis of	
10.	Mali Vaishali Suresh	pyrazole	
11.	Patil Abhay Manohar		
12.	Baviskar Kalpesh Narayan	Design, Synthesis &	
13.	Girase Dipak	Application of new	Ms. A. A. Pandit
14.	Patil Chetan Suresh	Coumarin Compound	
15.	Borse Nikita Bhatu		
16.	Deore Komal Kishor	Design & Synthesis of	
17.	Kumbhar Rakesh Daga	Propanolole	Ms. N. A. Borgaonkar
18.	More Punam Dipak	Derivative	
19.	Patil Devyani Dhanraj		
20.	Girase Jayesh Udaysing	Synthesis	
21.	Patil Kavita Suresh	characterization & fluorescence study of some phthalene dyes	Ms. S. R. Patil

- Anahuehabde

Dr. J. P. Mahashbde HOD Dept. of Chemistry



Academic Year	Sr. No.	Method used	Content
2021-22	1.	Project Work	M.Sc.
2021-22	2.	Industrial Visits	M.Sc.II

Project Work



CERTIFICATE This is to certify that, the project report on "Catalyst Free Synthesis of Biologically Active Propranolol Scaffold" has been submitted by Mr. Gaurav Sunil Wagh in partial fulfillment of degree of Master of Science in organic chemistry under my guidance & supervision in department of organic The material obtained from other sources has been duly acknowledged in this report. The work has not been submitted elsewhere for a degree or other academic award. Prof. J. P. Mahashabde Project Guide (HOD, Chemistry) External Examiner Internal Examiner

Project List (2021-22) M.Sc.-II

Sr. No.	Student Name	Title of Project	Name of Project Guide
1.	Bava Yogita Dnyaneshwar		
2.	Bhadane Puja Vikas	Sympthesis & Champetonization	Dr. J. P. Mahashabde
3.	Bhamare Rushikesh Yogesh	Synthesis & Characterization	
4.	Chaudhari Kunal Mohan	of some deep eutectic Solvent	
5.	Chavan Dhiraj Vedu		
6.	Desale Yogesh Sanjay		
7.	Girase Himani Chhotusing	Design & Synthesis of	
8.	Karankal Gayatri Dinesh	Propanolole Derivative	Mr. J. P. Sonawane
9.	Koli Premkumar Supadu	1 Topanoloic Berryative	Wiff. 3. 1. Soliawane
10.	Mahajan Rahul Rohidas		
11.	Mahajan Shruti Sopandev		
12.	Mali Bhavesh Dilip	Design, Synthesis & Application of new Coumarin Compound	Mrs. R. B. Chaudhari
13.	Mali Kunal Dilip		
14.	Mishra Neha Narendra		
15.	Patel Riyaj Faruk	Compound	
16.	Patil Yogita Rajendra		
17.	Patil Ananda Ramesh		
18.	Patil Anjali Premchand	Green Synthesis of	
19.	Patil Dhanashri Rajendra	benzimidazoles using Banana	Ms. N. A. Borgaonkar
20.	Patil Himanshu Prashant	peels water extract	ivis. N. A. Borgaolikar
21.	Patil Jagruti Nandkishor		
22.	Patil Jidnyasa Anil		
23.	Patil Mrunali Jitendra	One pot synthesis of Dihydro	
24.	Patil Nayan Sunil	pyrimidines	Mr. K. A. Pawara
25.	Patil Nayana Sambhaji	PJIIIIIIIII	1711. IX. 1 X. 1 UWUIU
26.	Patil Prafulla Vasant		
27.	Patil Pritesh Sunil		
28.	Patil Rushikesh Rajendra	Ionic Liquid promoted efficient	
29.	Patil Saurabh Ravindra	synthesis of Tris-coumarin	Mr. V. S. Patil
30.	Patil Suvarna Manohar		

31.	Patil Tejswini Vijay		
32.	Patil Vaishali Balu		
33.	Patil Vivek Navnath	Design synthesis of	
34.	Pawar Vaishnavi Dagadu	characterization of triazalidines	Mr. J. P. Sonawane
35.	Sandanshiv Prafulla Prakash	Characterization of thazandines	ivii. 3. 1 . Sonawane
36.	Shirsath Bhushan Shirish		
37.	Shirsath Nishant Dilip	Green Synthesis of	
38.	Shirsath Shilpa Hilal	benzimidazoles using dragon	Dr. J. P. Mahashabde
39.	Shivade Kalpesh Sunil	fruit peels water extract	Dr. v. T. Manashaode
40.	Sonawane Nilesh Prabhakar	Trait pools water extract	
41.	Vankhede Rahul Dilip	Synthesis characterization &	
42.	Vasave Anudeep Kain	fluorescence study of some	
43.	Vispute Pooja Jitendra	phthalene dyes	Mr. J. P. Sonawane
44.	Wagh Gaurav Sunil	primarene aj es	

- (mahushabde

Dr. J. P. Mahashbde

HOD
Dept. of Chemistry



Industrial Visit at Textile Park, Shirpur

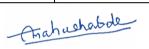


Academic	Sr. No.	Method used	Content
Year 2022-23	1.	Project Work	M.Sc. II

Project List (2022-23) M.Sc.-II

Sr.No.	Name of Students	Project Title	Name of Project
51.110.	Name of Students	1 Toject Title	Guide
1.	Seema Arun Borse		
2.	Jitendra Ramesh Chavan	Ionio Liquid muomotod	
3.	Rohini Mulchand Mahajan	Ionic Liquid promoted efficient synthesis of bis-	Dr. J. P. Mahashabde
4.	Srushti.K. Patil	coumarin	Di. J. F. Manashabue
5.	Harshada Madhukar Patil	Coumarm	
6.	Yogesh Harsing Rajput		
7.	Suyog S. Bhavsar		
8.	Prasad C Chaudhari	Green Synthesis of	
9.	Chandresh D. Kalal	benzimidazoles using	Mr. J. P. Sonawane
10.	Ananda Y. Shelar	dragon fruit peels water	Wii. J. I . Soliawane
11.	Samadhan B. Sirsath	extract	
12.	Chandresh D. Kalal		
13.	Lina. R. Bagle	Synthesis of naval DES fr	
14.	Jayesh S. Gaval	Synthesis of novel DES & Their applications as	
15.	Neha P. Girase	catalyst and reaction	Mrs. R. B. Chaudhari
16.	Swapnil D. Warude	media for organic	Wils. R. D. Chaudhair
17.	Rohini C. Rajput	synthesis	
18.	Harshal R Patil	Synthesis	
19.	Neha Subhash Patel	Low temperature	
20.	Manish Jagdish Patel	transition mixture	
21.	Siddhi Rajesh Patel	promoted one pot three	Ms. N.A. Borgaonkar
22.	Sagar Kantilal Patil	component synthesis of	
22.		beta enamino derivatives	
23.	Hemangi Mohan Mahale	Design & Synthesis of	
24.	Patil Jitendra Manohar	thymol Appended	Mr. K. A. Pawara
25.	Patil Kunal Bharat	heterocyclic compound	

26.	Sirsath Pallavi Ashok		
27.	Sonawane Vishakha Rajendra		
28.	Mansi H Girase		
29.	Kshitija H Thorat	Design synthesis of	
30.	Trupti S Sonawane	characterization of	Mr. V.S. Patil
31.	Dinesh S Patil	triazalidines	
32.	Abhay M Patil		
33.	Nikam Yogeshwar Sarjerao		
34.	Bhamre Vishal Sanjay	Synthesis characterization	
35.	Gavit Rutik Dasu	& fluorescence study of	Mr. J. P. Sonawane
36.	Bhavar Durgesh Dashrath	some phthalene dyes	ivii. 3. 1 . Soliawane
37.	Kuwar Kunal Maharaj	some phinalene dyes	
38.	Wadile Sumit Mohan		



Dr. J. P. Mahashbde HOD Dept. of Chemistry Project Work



CERTIFICATE

This is to certify that the thesis entitled "SYNTHESIS, CHARACTERIZATION AND FLUOROSCENCE STUDY OF SOME PHTHALEIN DYES " submitted by MR.RUTIK DASU GAVIT. MR.DURGESH DASHARATH BHAVAR, MR.YOGESHWAR SARJERAO NIKAM & MR.VISHAL SANJAY BHAMARE for the award of the Degree of Master of Science in Chemistry (Specialization in Organic Chemistry) is a record of bonafide research work done under my guidance and supervision during the period of M.Sc-II in the Department of Organic chemistry under the aegis of KAVAYITRI BAHINABAI NORTH CHAUDHARI MAHARASHTRA UNIVERSITY, JALGAON and that it has not previously formed the basis for the award of any Degree. That achald

Dr.J.P.Mahashabde

Head
Department of chemistry

Project Guide

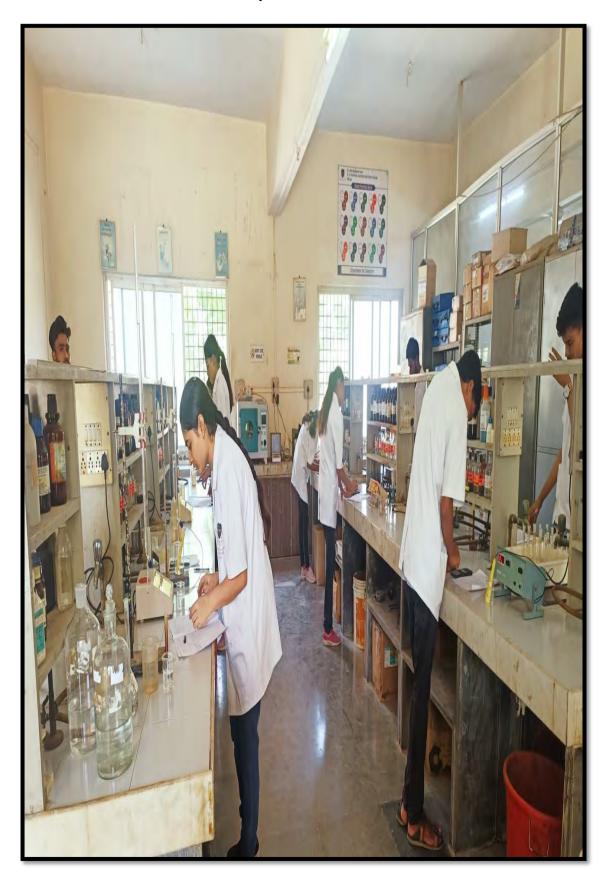
Practical Demonstration at Chemistry Lab



Practical Demonstration at Chemistry Lab



Practical Demonstration at Chemistry Lab



Industrial Visit Sula vineyards, Nashik



Production Department at Sula Wine Yards



Participative Learning

Academic	Sr. No.	Method used	Content
Year 2018-19	1	Poster	Poster Presentation on
1 cai 2010-19	1.	Presentations	Science Day

Poster Presentation on Science Day



	Sr. No.	Method used	Content
Academic Year	1.	Poster Presentations	Poster Presentation
2019-20	1.	1 ester 1 resemuations	on Science Day
	2.	Flipped Classroom	T.Y.B.Sc

Poster Presentation on Science Day



Poster by Students



Flipped Classroom M.Sc.-II



Academic	Sr. No.	Method used	Content
Year 2020-21	1.	Poster Presentations	Poster Presentation on Science Day

Poster Presentation

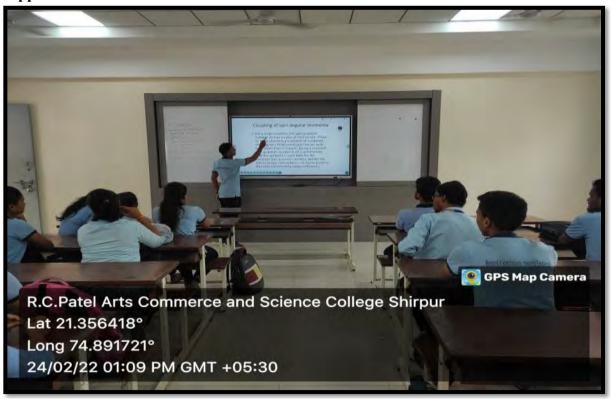


Aaadamia	Sr. No.	Method used	Content
Academic Year 2021-22	1.	Poster Presentations	Poster Presentation on Science Day
	2.	Flipped Classroom	T.Y.B.Sc.

Poster Presentation



Flipped classroom



	Sr. No.	Method used	Content
Agadamia	1.	Group Discussion	M.Sc.II
Academic Year 2022-	2.	Flipped Classroom	M.Sc.I
23	2	Poster	Poster Presentation on
23	3.	Presentations	Science Day

Group Discussion



Flipped Classroom



Poster Presentation



Problem Solving

Academic Year 2018-19	Sr. No.	Method used	Content
2010-19	1.	CAT Exam	T.Y.B.Sc.

Chemistry Ability Test Exam



Academic	Sr. No.	Method used	Content
Year 2019-20	1.	Expert Talk	Total Organic Synthesis
	2.	Guidance Session	Research Projects

Guest Lecture on Total Organic Synthesis





R.C Patel A.C.S. College, Shirpur

Department Of Chemistry

Guest Lecture on "Total Organic Synthesis"

By Alumni Dr. Yuvraj Satkar

03/03/2020

	Roll	Student Name Class Sign.
Sr. No.	No.	- America
1	53	mali vaishali (Suresh MSC-II TORALI)
1 2	60	Patil Derranisharmai MSC-II
3	65	De l'escal Hari
4	67	21 - ma Nicha Bhagwan MSCII Whemre
5	120	Pattle Prashant Preming M&II Prage
6	115	Deoxe Komal Kishor Msc. II Koeacs
7	118	Deore Ashwini Bhanudas Msc. II Bence
8	215	Bariskar Neha Ashak MSC-II Olions
9	18	Borse Nikita Bhatu MSCII (BOSSE
10	20	Patil Kunal Shanfaram Mrc-II
11	45	Patil Komal Ishwar MscII Kitil
12	11)	Pode Jyoti Vijayrao MSCII Pode
13	220	Thite Vishal Apparahrh MSC II Talliand
14)	1.21	Bariskar Kalpen Nalayan Msc II Salfor.
(8)	210	Patil Chetan Subhash MSCIT _ Chetan
16)	278	kumawat Manoj kumaz Mukan T. Y. B. sc manoj kumaj,
18)	337	Dorik Nilesh Motilal T.y. B.SC maries
12)	315	Mahajun Prem Sunt T. Y. g. Phays
280	337	Payput ponkay sonjaysing TYBSC Quest
20)	188	Patil Dhanashni Rojendra T.Y.B. Sc P.
22	232	Madile Namrata Kailas T. K. B.sc Madile
23	80	Patil Bhavana Himnohan TyBSC BRILL
23)	288	Patil Suvagna vijay T.Y.BSC S.Y. Patic.
29)	32	chavan Dhiraj Vedy T.Y. Bsc mannas.

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14 Kali Bratu Khanderao Misc I
19 Sangware Chetan Himmaton 1-18-1
1) Partil Amol Gulabrao 11/361
21 Rhamare Aakash Dawlat Msc I Stury
38 21 Bhamare Hakash Sadhalar MSC-I Bhahajen
1 27 radbox Mayor Rosendra Mic-1 Ofodbox
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42 13 Dhangas Sandip Onyanohus MSCT College
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43 04 PATIL PRAVIN SHATRUGHA MSC-I TOTAL
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mahahabat
MBAD
of Chemistry
C.C.Patel Arts, Comm. & Sci. College Shirper, Dist Dhule 225 485

Guidance on Short Research Project for PG Students (08/08/2020)



R.C.Patel Arts, Commerce and Science College, Shirpur Department of chemistry Activity Report to IQAC

Date: 08 August 2020

Name of event: One Day Workshop on Short Research Project Preparation

Objectives: To provide a broad foundation in chemistry that succeeds in Industries or professional level. To expose the students to a breadth of experimental techniques using modern instrumentation. To learn professionalism, including the ability to work in teams and apply basic ethical principles.

Programme of Outcomes:

- 1. Students should learn laboratory skills needed to design, safely conduct and interpret chemical research.
- 2. Student will understand scientific reasoning and analytical problem solving in chemistry
- 3. Students will be able to clearly communicate the results of scientfic work in oral, written and electronic formats
- 4. Students will develop the ability to effectively communicate scientific information and research results.
- 5. Students will be able to explore new areas of research in both chemistry and allied fields of science and technology

Date and Time: 8/8/2020 (1 to 4 pm)

Duration: 3 hour

Name of resource person:

Dr. J. P. Mahashabde: Research methedology

Mr. J. P. Sonawane: Referencing and writing short research project.

Expected beneficiaries: P.G. -33

Beneficiaries actually attended: P.G. -33

Briefing of programme:

Department of chemistry organized a one day workshop to guide a P.G. students on short Research project. It is based on basic and conceptual knowledge of chemistry. All teachers participated for this workshop which is for P.G. students. Teachers guide them for referencing, methodology, techniques and prepare them for research awareness through such practices.

Name of the participant:

Sr.No.	Name Of the Students			
1	Bhamare Aakash daulat			
2	Chaudhari Neha Ambalal			
3	Chavhan Bhavesh Ravindra			
4	Dhangar Sandip Dnyaneshwar			
5	Girase swati Narendrasing			
6	Gujar Vipul Dipak			
7	Jadhav Mayur Rajendra			
8	Jadhav Pratik Sudhakar			
9	Jain Puja Pankajlal			
10	Kasar Rohan Rajendra			
11	Koli Bhatu Khanderao			
12	Mahajan Pavan Sudhakar			
13	Mahajan Siddheshwar Sopandeo			
14	Padvi Roben Motiram			
15	Patel Rinkal Sanjay			
16	Patil Aishvarya Kishor			
17	Patil Ajay Prakash			
18	Patil Amol Gulabrao			
19	Patil Ankita Keshav			
20	Patil Dipika Bhaskar			
21	Patil Mrunal Nimba			
22	Patil Nikita Uddhav			
23	Patil Nilesh Dnyaneshwar			
24	Patil Pravin Shatrughna			
25	Patil Vipul Ravindra			
26	Patole Bhaiyya Dilip			
27	Pawar Vaibhav Narendra			
28	Rajput Mahendrasing Umedsing			
29	Sonawane Chetan Himmatrao			
30	Suryawanshi Kiran Charan			
31	Thorat Sapana Vasant			
32	Wagh Chandrakant Dnyaneshwar			

Department Of Chemist
C.Patel Arts, Comm. & Sci. Com.
Shirour. Dist. Dhule 425 405

R.C Patel A.C.S. College, Shirpur

Seminar

Department Of Chemistry

Craphene: Wonder Material for Biosensing of Environmental Remediation Applications.

@ Micelles as a Nanosized Carrier for cancer Treatment.

14/03/2020

Chemistry
Chemistry
Co.Patel Arts.Comm.& Sci.E diego.
Shirour.Dist.Ohnle 425 405

Sr. No.	Roll No.	Student Name	Class	Sign.
1)	82	Girase sachin sudamsing	T.y. (chem)	Brease,
27	15	patole Bhaiyya Dilip		Fait 8
3)	02	Rayput Mahendra Umedsing	Msc-I	musipul.
4)	14	Koli Bhaty Khanderao	M50-I	Bekoli
5)	278	Kumawat Manoj kumoj Mukesh k.	T.Y. B.Sc(Chem)	manoj tumaj
6	250	Patel Bratik Stul	F.Y. BSC	Aprile
7>	332	Rajput ponkaj Sonjoysing	T.4.BSC (chem)	purt
8]	50	Raiput Sumit Abanyansing	T- Y BSC (chem)	21
9)	281	Desale vishal kanhyd	T- YiBsccchen	1t Pale
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11	13	Ohangae sandip onyanol	Ton	Boss
13	19	Sonawane chetan Himmaton		me,
13	18	Rosela Ruptal Gamanya	msc. T. cohon	Rasal
16	29	Patil Chelun Subhash	M.SC. I (chen)	- 82
15	17	Patil Prashont Premray	MSCI (cham)	peratil
167	10	Patil Kunal Shantaram	Msc-II [chem]	Aspto.
18)	29	wagh chandrakant Dayaneshwar	Mse-I (chem]	duy
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217	32	thite Xishal Appasahels	MSC-II (chem	- Ashore
22)	20	mohortan siddhe shower soranda	MSC-I (chem)	Smohoton
-3	66	Shiosabh Hemant Subadh	msc I (chem)	016
4)	3	Crience Juresh V.	MSC TT Cchem	A. 0 1
5)	99	Dower Fragul N.	MSCITI (chan	1
26)	10	Bawiskal Kalpesh Nasayan		

R.C Patel A.C.S. College, Shirpur

Department Of Chemistry

Guest Lecture on ... Graphene - Wonder material

14/03/2020

Sr. No.	Roll No.	Student Name	Class	Sign.
17	22	patil Aishvanya Kishor	msc - I	Rety.
2)	24	Patil Dipika Bhaskar	msc-I	Balel.
3>	28	chaudhari Neha Ambalal	Msc - I	Dehaudhaei
4)	18	Patti Ankita keshav	MSC-I	Apate
<2 \	17	pati Nikita Uddhav	M. S (-1	Meany.
6>	07	Deore Komal Kishor	M.Sc - II	1
7>	06	Borse Nikita Bhatu	M.SC II	(Bose,
8>	04	Patil Kavita suresh		CAROLES
9>	05	Baviskar Neho Ash	MSC-II	Rhi)
107	15	Patil Komal Ishwar	Msc-II	Shooke
11)	81	Basi Sonal Hasi	MSC-II	Fade.
12>	92	Pode Tyote Vijagrac		Maria
13)	123	Mali vaishali suresh	MSC-II	71100
14)	89	Patil Nish		Bheimore
15	46	Bhamre Nisha Bhagwar	MSC-III	Bill
16	53	Patil Sayali Sarest	DSC-III	
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		N. Albert		Chemistry
			C.C.Pat	el Arts.Comm.& Sci.College onr. Dist.Dhule 475 406

R.C Patel A.C.S. College, Shirpur

Department Of Chemistry

Guest Lecture on .. Graphene: Onder material

14/03/2020

Sr.	Roll No.	Student Name	Class	Sign.
1.	147	Patil Jidnyasa Anil	Ty. BSC(Chem)	Alal
2.	148	* Mahajan Shruti Sopand	VTY.BSC(Chen	mahafal
9	215	Rayput Bhagyashei Ranjikin	T. Y. BSC (Chem) Boykut
49	230	Mahajan Puja Subbash	- 1	
5	287	Patil Jayshree Kailal	T.YBSC(chem)	Phil
6	341	patil pratibha Shrikant	T. Y. BSc (chem)	Paril
7	252	Jadhav Rupali Rajendra	T. YBSC. (chem)	By
8	194	Mali Harshado madhavrao	T. Y. BSC. Chem	1.1
9	192	Partil Tayashri Pitambar	TyBse Cchem	1
10	288	Patil savoena vijay	Ty BSC-(chen)	7
11	04	powar Nomrate sanjay	M.SC. I [PHT]	010
12	195	mahanubhav Gwati Rajenda	Typsc (chem)	Mento
13	292	Patol harshada Ashok		An i
14	37	patil Tyotsna suresh	MSC II (che	100
15	36	Dhangar Priyantra p.		1
16	08	Deore Ashwini Bhancalas		1 - 1
17	26	patil Mougnayni makes	MSC-II Coher	100
18	34	Patil lalita namdeo Patil Devyani Dharmraj	Msc - II Chen	n) 1Pati)
19	17			(3,01
20	72	Potil Dairoj Pavindro		
2)	79	Raupet Vingal Bhavan Kumbhar Rakern Daga	MSC-II (ches	n) Porohor
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24	06	Paril Vipul Ravindra.	MISC I Ccha	1 PULL
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		C. Patel	121 2000	rtment Of Chemistry tel Arts.Comm.& Sci.College irour.Dist.Dhule 425 405

Academic	Sr. No.	Method used	Content
Year 2020-21	1.	Expert Talk	Short Research Project

R.C.Patel Arts, Commerce and Science College, Shirpur Department of chemistry Activity Report to IQAC

Date: 08 August 2020

Name of event: One Day Workshop on Short Research Project Preparation

Objectives: To provide a broad foundation in chemistry that succeeds in Industries or professional level. To expose the students to a breadth of experimental techniques using modern instrumentation. To learn professionalism, including the ability to work in teams and apply basic ethical principles.

Programme of Outcomes:

- 1. Students should learn laboratory skills needed to design, safely conduct and interpret chemical research.
- 2. Student will understand scientific reasoning and analytical problem solving in chemistry
- 3. Students will be able to clearly communicate the results of scientfic work in oral, written and electronic formats
- 4. Students will develop the ability to effectively communicate scientific information and research results.
- Students will be able to explore new areas of research in both chemistry and allied fields of science and technology

Date and Time: 8/8/2020 (1 to 4 pm)

Duration: 3 hour

Name of resource person:

Dr. J. P. Mahashabde: Research methodology

Mr. J. P. Sonawane: Referencing and writing short research project.

Expected beneficiaries: P.G. -33

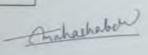
Beneficiaries actually attended: P.G. -33

Briefing of programme:

Department of chemistry organized a one day workshop to guide a P.G. students on short Research project. It is based on basic and conceptual knowledge of chemistry. All teachers participated for this workshop which is for P.G. students. Teachers guide them for referencing, methodology, techniques and prepare them for research awareness through such practices.

Name of the participant:

Sr.No.	Name Of the Students	
1	Bhamare Aakash daulat	
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	Chavhan Bhavesh Ravindra	
4	Dhangar Sandip Dnyaneshwar	
5	Girase swati Narendrasing	
6	Gujar Vipul Dipak	
7	Jadhav Mayur Rajendra	
8	Jadhav Pratik Sudhakar	
9	Jain Puja Pankajlal	
10	Kasar Rohan Rajendra	
11	Koli Bhatu Khanderao	
12	Mahajan Pavan Sudhakar	
13	Mahajan Siddheshwar Sopandeo	
14	Padvi Roben Motiram	
15	Patel Rinkal Sanjay	
16	Patil Aishvarya Kishor	
17	Patil Ajay Prakash	
18	Patil Amol Gulabrao	
19	Patil Ankita Keshav	
20	Patil Dipika Bhaskar	
21	Patil Mrunal Nimba	
22	Patil Nikita Uddhav	
23	Patil Nilesh Dnyaneshwar	
24	Patil Pravin Shatrughna	
25	Patil Vipul Ravindra	
26	Patole Bhaiyya Dilip	
27	Pawar Vaibhav Narendra	
28	Rajput Mahendrasing Umedsing	
29	Sonawane Chetan Himmatrao	
30	Suryawanshi Kiran Charan	
31	Thorat Sapana Vasant	
32	Wagh Chandrakant Dnyaneshwar	



R.C.Patel Arts, Commerce and Science College, Shirpur Department of chemistry Activity Report to IQAC

Date: 07 July 2020

Name of event: One Day Online Workshop on Safety Laboratory Practices

Objectives: To provide broad information on Safety laboratory practices to work in a careful, organized manner. Horseplay, practical jokes or disruptive behaviour will not be tolerated and disciplinary action will be taken. Wear safety goggles during an experiment. To learn professionalism, including the ability to work in teams and apply basic ethical principles.

Programme of Outcomes: I.Students should learn laboratory skills.

- 2. Student will avoid putting any chemicals.
- 3. Students will keep work area free of any materials not needed.
- 4. Students will stay with lab group and will not wander.
- Students will know the location of first aid kit, eye wash station and fire extinguisher.

Date and Time: 07/07/2020 (2 to 4 pm)

Duration: 2 hour

Name of resource person:

Dr. J. P. Mahashabde: Laboratory safety (Principles and Practices)

Mr. J. P. Sonawane: Shielding for Safety.

Expected beneficiaries: P.G. -60 U.G. - 120

Beneficiaries actually attended: P.G. -60 U.G. - 120

Briefing of programme:

Department of chemistry organized a one day workshop to guide a P.G. and U.G students on Safety Laboratory Practices. It is based on basic knowledge doing many lab activities. All teachers participated for this workshop which is for P.G. and U.G. students. Teachers guided and prepared them for lab activity awareness through such practices.

Name of the participant:

Sr. No.	Name of student	Class
I.	THAKARE BHUSHAN DNYANESHWAR	T.Y.BSc.
2.	AHIRE PAWAN BHAIDAS	T.Y.BSc.
3.	BARI ROSHAN SATISH	T.Y.BSc.
4. BAVISKAR AKSHAY RAKESH		T.Y.BSc.
5.	BAVISKAR RAHUL HIRALAL	T.Y.BSc.
6.	BHAIRAV TEJASKUMAR CHATUR	T.Y.BSc.
7.	BHAMARE DHANRAJ SANJAY	T.Y.BSc.
8.	BHAMARE NILESH PRAKASH	T.Y.BSc.
9.	BHAPKAR NIRAJ SHANTILAL	T.Y.BSc.
10.	BHAVSAR SUYOG SANJAY	T.Y.BSc.
11,	BHOI KIRAN SANTOSH	T.Y.BSc.
12.	BORSE DIPALI CHINTAMAN	T.Y.BSc.
13.	BORSE HRUTIK KALYAN	T.Y.BSc.
14.	BORSE JAYVARDHAN ASHISH	T.Y.BSc.
15.	BORSE SEEMA ARUN	T.Y.BSc.
16.	CHAUDHARI ADITYA ARUN	T.Y.BSc.
17.	CHAUDHARI CHAITALI CHOTTU	T.Y.BSc.
18.	CHAUDHARI CHETAN SUNIL	T.Y.BSc.
19.	CHAUDHARI ROHIT PRAMOD	T.Y.BSc.
20.	CHAUDHARI SHWETAL SUDHAKAR	T.Y.BSc.
21.	CHAVAN JITENDRA RAMESH	T.Y.BSc.
22,	CHAVAN KUNAL PRAKASH	T.Y.BSc.
23.	DALAL HARSHAL RAMESHWAR	T.Y.BSc.
24.	DEORE PANKAJ MANIK	T.Y.BSc.
25.	DESHMUKH SWARUPA DHANSING	T.Y.BSc.
26.	DHANGAR SHUBHAM HILAL	T.Y.BSc.
27.	GIRASE MANASI HEMENDRASING	T.Y.BSc.
28.	GIRASE BALWANT BAPUSING	T.Y.BSc.
29.	GIRASE BHARAT DEEPAK	T.Y.BSc.
30.	GIRASE DEVEN PRAVIN	T.Y.BSc.
31.	GIRASE HARSHAL BHATUSING	T.Y.BSc.
32.	GIRASE NEHA GAJENDRA	T.Y.BSc.
33.	GIRASE PANKAJ NAVALSING	T.Y.BSc.
34.	GIRNAR MAHESH PRAKASH	T.Y.BSc.
35.	JADHAY BHAGYASHRI MEHARBAN	T.Y.BSc.
36.	JANGID NIKITA SAGARMAL	T.Y.BSc.
	JAVHERI HARSHAJIT DILIPSING	T.Y.BSc.
37.		T.Y.BSc.
38.	KALAL CHANDRESH DEVKRISHNA	1.1.030.

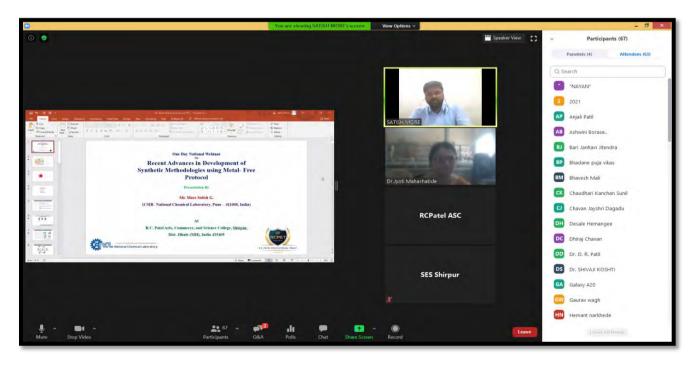
39.	KARANKAL KALPESH PRAVIN	T.Y.BSc.
40.	KHATIK REHANSHEKH MEHMUD	T.Y.BSc.
41.	KHATIK SHAHDAB SHEKH MUSALIM	T,Y,BSc.
42.	KHONDE YOGITA RAVINDRA	T.Y.BSc.
43.	KOLAPKAR SWATI RAJENDRA	T.Y.BSc.
44.	KOTHAWADE KALYANI DILIP	T.Y.BSc.
45.	KULKARNI BHUSHAN CHANDRAKANT	T.Y.BSc.
46.	MAHAJAN ROHIT SURYAKANT	T.Y.BSc.
47.	MAHAJAN SRUSHTI ASHOK	T.Y.BSc.
48.	MAHAJAN JAGRUTI SUNIL	T.Y.BSc.
49.	MAHAJAN MEENAKSHI GULAB	T.Y.BSc.
50.	MAHAJAN ROHINI MULCHAND	T,Y,BSc.
51.	MAHAJAN TEJSWINI MAHENDRA	T.Y.BSc.
52.	MARATHE KOMAL RAVINDRA	T.Y.BSc.
53.	MARATHE PUNAM JAGADISH	T,Y,BSc.
54.	MARATHE SUSHANT SANTOSH	T.Y.BSc.
55.	PATEL SAGAR SUNIL	T.Y.BSc.
56.	PATEL HARSHAL RAMAN	T.Y.BSc.
57.	PATEL MANISH JAGDISH	T.Y.BSc.
58.	PATEL NEHA SUBHASH	T.Y.BSc.
59.	PATEL NIKHIL BHAGWAN	T.Y.BSc.
60.	PATEL SIDDHI RAJESH	T.Y.BSc.
61.	PATIL ASHWINI KAILAS	T.Y.BSc.
62.	PATIL BHUSHAN SATISH	T.Y.BSc.
63.	PATIL MAHESH DNYANESHWAR	T.Y.BSc.
64,	PATIL PARESH RAJENDRA	T.Y.BSc.
65.	PATIL PRIYANKA NITIN	T.Y.BSc.
66.	PATIL ROSHANA BHASKAR	T.Y.BSc.
67.	PATIL SAGAR KANTILAL	T,Y.BSc.
68.	PATIL SHANTANU ASHOK	T.Y.BSc.
69.	PATIL TEJASWINI KISHOR	T.Y.BSc.
70.	PATIL AKSHADA PRABHAKAR	T.Y.BSc.
71.	PATIL AKSHAY DNYANESHWAR	T.Y.BSc.
72.	PATIL AKSHAYKUMAR MAHENDRASING	T,Y.BSc.
73.	PATIL AMOL SAMBHAJI	T.Y.BSc.
74.	PATIL ANAND KAUTIK	T.Y.BSc.
75.	PATIL GAURAV DILIP	T.Y.BSc.
76.	PATIL HARSHADA MADHUKAR	T.Y.BSc.
77.	PATIL HARSHAL SANJAY	T.Y.BSc.
78.	PATIL HARSHALI SURESH	T.Y.BSc.
79.	PATIL JAYESH SOPAN	T.Y.BSc.
80.	PATIL JITENDRA PRALHADRAO	T.Y.BSc.
81.	PATIL KIRAN SAHEBRAO	T.Y.BSc.
82.	PATIL MADHURI VITTHAL	T.Y.BSc.
83.	PATIL NARESH SURESH	T.Y.BSc.
	PATIL NAYAN UDAY	T.Y.BSc.
84.		T.Y.BSc.
85.	PATIL NILESH DNYANESHWAR	
86.	PATIL PIYUSH SANJAY	T.Y.BSc.
87.	PATIL PRADNYA DEVIDAS	T.Y.BSc.
88.	PATIL PRASHANT KRISHNA	T.Y.BSc.
89.	PATIL PREM SAHRAD	T.Y.BSc.
90.	PATIL RAKESH BHAGWAN	T.Y.BSc.
91.	PATIL ROSHAN MADHUKAR	T.Y.BSc.

IL SAGAR PRABHAKAR IL SHRADDHA JAGDISH IL SRUSHTI KIRAN IL VAIBHAV RAVINDRA 'AR APEKSHA MADHAVRAO 'AR DHANASHRI SHARAD 'AR MANJUSHA DINESH 'AR NARESH SANJAY 'AR VISHAL JAMSING JAPAT KAMALESH BHAIDAS PUT ATISH KAILAS PUT DIVYA RAJENDRA PUT RAJASHRI YOGENDRASING PUT SWAPNIL RAJENDRA PUT SWAPNIL RAMKRISHNA PUT VIJAYSING RAMSING PUT YASHODEEP DARBARSING PUT YOGESH HARSING PUT YOGESH HARSING L VARSHA YOGENDRASING ADE SAGAR RAJUBHAI NDANE PRIYANKA HIRALAL UNKHE VISHAKHA JITENDRA MPI NIKHIL DNYANESHWAR NDE VIJAYA KAMALESHBAI	T.Y.BSc.
IL SRUSHTI KIRAN IL VAIBHAV RAVINDRA 'AR APEKSHA MADHAVRAO 'AR DHANASHRI SHARAD 'AR MANJUSHA DINESH 'AR NARESH SANJAY 'AR VISHAL JAMSING JAPAT KAMALESH BHAIDAS PUT AMBARNATH PREMSING PUT ATISH KAILAS PUT DIVYA RAJENDRA PUT RAJASHRI YOGENDRASING PUT SWAPNIL RAMKRISHNA PUT VIJAYSING RAMSING PUT YASHODEEP DARBARSING PUT YOGESH HARSING PUT YOGESH HARSING L VARSHA YOGENDRASING LADE SAGAR RAJUBHAI NDANE PRIYANKA HIRALAL UNKHE VISHAKHA JITENDRA	T,Y,BSc.
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AR DHANASHRI SHARAD AR MANJUSHA DINESH AR NARESH SANJAY AR VISHAL JAMSING JAPAT KAMALESH BHAIDAS PUT ATISH KAILAS PUT DIVYA RAJENDRA PUT RAJASHRI YOGENDRASING PUT SWAPNIL RAJENDRA PUT SWAPNIL RAJENDRA PUT VIJAYSING RAMSING PUT YASHODEEP DARBARSING PUT YOGESH HARSING PUT YOGESH HARSING L VARSHA YOGENDRASING ADE SAGAR RAJUBHAI NDANE PRIYANKA HIRALAL UNKHE VISHAKHA JITENDRA MPI NIKHIL DNYANESHWAR	T.Y.BSc.
AR DHANASHRI SHARAD AR MANJUSHA DINESH AR NARESH SANJAY AR VISHAL JAMSING JAPAT KAMALESH BHAIDAS PUT ATISH KAILAS PUT DIVYA RAJENDRA PUT RAJASHRI YOGENDRASING PUT SWAPNIL RAJENDRA PUT SWAPNIL RAJENDRA PUT VIJAYSING RAMSING PUT YASHODEEP DARBARSING PUT YOGESH HARSING PUT YOGESH HARSING L VARSHA YOGENDRASING ADE SAGAR RAJUBHAI NDANE PRIYANKA HIRALAL UNKHE VISHAKHA JITENDRA MPI NIKHIL DNYANESHWAR	T.Y.BSc.
AR MANJUSHA DINESH AR NARESH SANJAY AR VISHAL JAMSING JAPAT KAMALESH BHAIDAS PUT AMBARNATH PREMSING PUT ATISH KAILAS PUT DIVYA RAJENDRA PUT RAJASHRI YOGENDRASING PUT SWAPNIL RAMKRISHNA PUT VIJAYSING RAMSING PUT YASHODEEP DARBARSING PUT YOGESH HARSING PUT YOGESH HARSING LADE SAGAR RAJUBHAI NDANE PRIYANKA HIRALAL UNKHE VISHAKHA JITENDRA MPI NIKHIL DNYANESHWAR	T,Y,BSc,
AR NARESH SANJAY AR VISHAL JAMSING JAPAT KAMALESH BHAIDAS PUT AMBARNATH PREMSING PUT ATISH KAILAS PUT DIVYA RAJENDRA PUT RAJASHRI YOGENDRASING PUT SWAPNIL RAMKRISHNA PUT VIJAYSING RAMSING PUT YASHODEEP DARBARSING PUT YOGESH HARSING L VARSHA YOGENDRASING ADE SAGAR RAJUBHAI NDANE PRIYANKA HIRALAL UNKHE VISHAKHA JITENDRA MPI NIKHIL DNYANESHWAR	T.Y.BSc.
AR NAKESH SANJAY AR VISHAL JAMSING JAPAT KAMALESH BHAIDAS PUT AMBARNATH PREMSING PUT ATISH KAILAS PUT DIVYA RAJENDRA PUT RAJASHRI YOGENDRASING PUT SWAPNIL RAJENDRA PUT SWAPNIL RAMKRISHNA PUT VIJAYSING RAMSING PUT YASHODEEP DARBARSING PUT YOGESH HARSING L VARSHA YOGENDRASING ADE SAGAR RAJUBHAI NDANE PRIYANKA HIRALAL UNKHE VISHAKHA JITENDRA MPI NIKHIL DNYANESHWAR	T,Y,BSc.
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PUT VIJAYSING RAMSING PUT YASHODEEP DARBARSING PUT YOGESH HARSING IL VARSHA YOGENDRASING ADE SAGAR RAJUBHAI NDANE PRIYANKA HIRALAL UNKHE VISHAKHA JITENDRA MPI NIKHIL DNYANESHWAR	T.Y.BSc, T.Y.BSc, T.Y.BSc, T.Y.BSc, T.Y.BSc, T.Y.BSc, T.Y.BSc, T.Y.BSc, T.Y.BSc,
PUT YASHODEEP DARBARSING PUT YOGESH HARSING IL VARSHA YOGENDRASING ADE SAGAR RAJUBHAI NDANE PRIYANKA HIRALAL UNKHE VISHAKHA JITENDRA MPI NIKHIL DNYANESHWAR	T.Y.BSc. T.Y.BSc. T.Y.BSc. T.Y.BSc. T.Y.BSc. T.Y.BSc. T.Y.BSc.
PUT YOGESH HARSING L VARSHA YOGENDRASING ADE SAGAR RAJUBHAI NDANE PRIYANKA HIRALAL UNKHE VISHAKHA JITENDRA MPI NIKHIL DNYANESHWAR	T.Y.BSc, T.Y.BSc, T.Y.BSc, T.Y.BSc, T.Y.BSc,
ADE SAGAR RAJUBHAI NDANE PRIYANKA HIRALAL UNKHE VISHAKHA JITENDRA MPI NIKHIL DNYANESHWAR	T.Y.BSc. T.Y.BSc. T.Y.BSc. T.Y.BSc.
NDANE PRIYANKA HIRALAL UNKHE VISHAKHA JITENDRA MPI NIKHIL DNYANESHWAR	T.Y.BSc, T.Y.BSc,
UNKHE VISHAKHA JITENDRA MPI NIKHIL DNYANESHWAR	T.Y.BSc.
MPI NIKHIL DNYANESHWAR	
IDE VIIAVA KAMAI ECUDAI	T.Y.BSc.
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RSATH DHANASHRI SAHEBRAO	T.Y.BSc.
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d Arts. Comer of	Dr. J. P. Mahaulah HISHOD Department Of Chamiles
	AVAGE AKSHADA ARUN DIYA SHWETA PRASANNA AWANE PRITESH RAGHUNATH AWANE SACHIN BHARAT AWANE TRUPTI SHAMKANT WANE CHETAN SANTOSH YAVANSHI RAHUL RAJENDRA VI YOGESH RAJYA GH ASHVIN KISHOR GH KIRAN SHANTILAL GH MILIND ASHOK

	Sr. No.	Method used	Content
	1.	Expert Talk	Recent advance in Development of Synthetic Methodologies using metal Free Protocol
Academic Year 2021-22	2.	Expert Talk	Research methodologist in Chemical science by The Resource Person – Dr, Dipak S. Dalal
	3.	Expert Talk	Career Opportunities in Chemical Sciences and Importance of Organic Chemistry in Material Research"

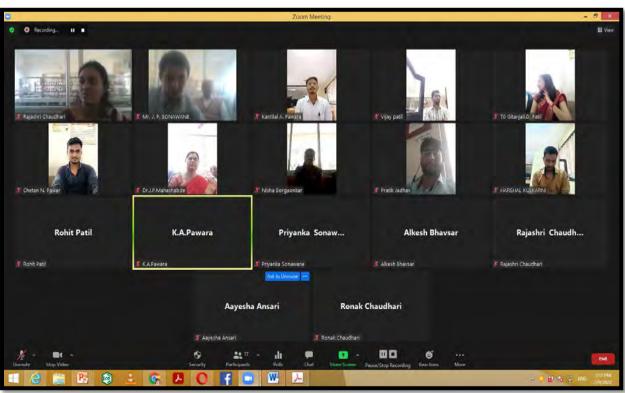
Expert Talk in One Day National Webinar On Recent advance in Development of Synthetic Methodologies using metal Free Protocol





Research methodologist in Chemical science by The Resource Person- Dr. Dipak S. Dalal







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राष्ट्रीय कार्यशाळेत तज्ज्ञांचे मार्गदर्शन

शिरपूर

येथील आर.सी.पटेल महाविद्यालयात रसायनशास्त्र विभाग व आय.क्यु.ए.सी. अंतर्गत रिसर्च मेथडोलोजी इन के मिकल सायन्सेस या विषयावर एकदिवसीय राष्ट्रीय ई-कार्यशाळा नुकतीच पार पडली.

कवियती बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ रसायनशास्त्र मंडळाचे अध्यक्ष डॉ.एस.एस.राजपूत यांच्याहस्ते उद्घाटन करण्यात आले. प्राचार्य डॉ.डी.आर.पाटील, उपप्राचार्य डॉ.ए.एम.पाटील व उपप्राचार्य आर.डी. जाधव उपस्थित होते. प्रमुख वक्ते डॉ.डी.एस.दलाल यांनी प्रथम सत्रात संशोधनाच्या मूलभूत संकल्पना आणि कार्यपद्धती, योग्य संशोधन विषय, संशोधन समस्या, सिंथेटिक मेथॅडॉलॉजिस या विषयावर मार्गदर्शन केले. विदतीय सत्रात डॉ.ए.ए. शिरखेडकर यांनी संशोधन साहित्य पुनरावलोकन, संशोधन कल्पना व संशोधन पेपर लेखन आणि गृहितक, संशोधन परिणाम या विषयांवर मार्गदर्शन केले.

प्रास्ताविक डॉ.जे.पी. महाशब्दे यांनी व प्रा.जे.पी. सोनवणे यांनी सूत्रसंचलन केले. आभार प्रा.आर.बी.चौधरी यांनी

या ई-कार्यशाळेत विविध महाविद्यालयातील ४०० हन अधिक प्राध्यापक, संशोधक आणि विद्यार्थ्यांनी सहभाग नोंदवला.रसायनशास्त्र विभाग प्रमुख डॉ.जे.पी.महाशब्दे, प्रा. आर.बी.चौधरी,प्रा.जे.पी. सोनवणे.प्रा.के.ए.पावरा. प्रा.व्ही .एस.पाटील, प्रा.एच.एस. कुलकर्णी, प्रा.एन.ए.बोरगावकर, प्रा.जी.डी.पाटील, प्रा.सी.एन. पवार, प्रा.पी.एस.जाधव यांनी संयोजन केले. त्यांना गणेश सोनार, संजय मोरे, बन्सीलाल चौधरी,डी.यू.पटेल, व्ही.जी.कासार यांनी मदत केली

पथदर्शी

आर.सी.पटेल कला, वाणिज्य व विज्ञान महाविद्यालयाच्या रसायनशास्त्र विभागातर्फे ९ फेब्रुवारी रोजी एकदिवसीय ई-कार्यशाळेचे आयोजन

शिरपूर- आर. सी. पटेल कला, वाणिज्य व विज्ञान महाविद्यालयात ९ फेब्रुवारी रोजी सकाळी ११ वाजता रसायनशास्त्र विभाग इन अस्सोसिएशन विथ आय. क्यू. ए. सी. विभागाअंतर्गत रिसर्च मेथोडोलोजी इन केमिकल सायन्से स-(आरएमसीएस-२०२२) या विषयावर एकदिवसीय ई-कार्यं शाळे चे आयो जन करण्यात आले आहे.

या ई-कार्यशाळेचे उद्घाटन

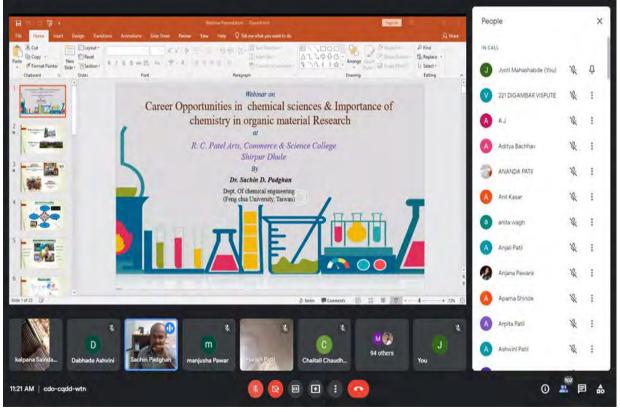
कवियित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ रसायनशास्त्र अभ्यास मंडळाचे अध्यक्ष डॉ. एस. एस. राजपूत यांच्या उपस्थितीत होणार आहे. कार्यशाळेत प्रमुख वक्ते म्हणून डॉ. दिपक दलाल (विभाग प्रमुख-स्कूल ऑफ केमिकल सायन्सेस, क.ब.चौ.उमवि, जळगाव) व उपप्राचार्य डॉ. अतुल शिरखेडकर (विभाग प्रमुख-फार्मस्यटिकल सायन्सेस, आर.

सी पटेल फार्मसी कॉलेज, शिरपूर) या प्रमुख अथितींचे मार्गदर्शन लाभणार आहे. कार्यशाळा ऑनलाईन झुम प्रणालीवर संपन्न होणार आहे. सर्व पदवी व पदच्युत्तर विद्यार्थी, संशोधक व प्राध्यापकांनी या कार्यशाळेचा लाभ घ्यावा असे आवाहन महाविद्यालयाचे प्राचार्य डाँ. डी आर. पाटील यांनी केले आहे.

या कार्यशाळेचे आयोजन

रसायनशास्त्र विभाग प्रमुख डाँ जे. पी. महाशब्दे व (आरएमसीएस-२०२२ टीम) प्रा.आर. बी.चौधरी, प्रा.जे. पी सोनवणे, प्रा. के.ए. पावरा प्रा.व्ही.एस.पाटील, प्रा.एच.एस कु लकणीं, प्रा.एन. ए बोरगावकर, प्रा.जी. डी. पाटील प्रा.सी. एन.पवार, प्रा.पी. एस जाधव व श्री. व्ही.जी.कासा यांच्या सहकार्याने संपन्न होत आहे. Career Opportunities in Chemical Sciences and Importance of Organic Chemistry in Material Research by Dr. Sachin Padghan from Department of chemical engineering (fang Chia University, Taiwan)







पुण्य नगरी

आर.सी. पटेल महाविद्यालयात रसायानशास्त्रविषयी वैबिनार

शिरपूर: शहरातील आर.सी.पटेल एज्युकेशन प्रयत्नांनी रसायनशास्त्र विभागाने टी.वाय.बी.

ट्रस्ट संचालित आर. सी. पटेल कला, वाणिज्य आणि विज्ञान महाविद्यालयातील आय. क्यु. ए. सी. व रसायानशास्त्र विभागाच्या संयुक्त विद्यमाने एक दिवसीय राष्ट्रीय स्तरावरील करिअर ऑपर्च्युनिटी इन केमिकल सायन्सेस अँड इम्पॉर्टन्स ऑफ ऑरगॅनिक केमिस्ट्री इन

मटेरियल रीसर्च या विषयावर ऑनलाईन वेबिनार घेण्यात आला.

प्राचार्य डॉ.डी.आर.पाटील, विभागप्रमुख डॉ.जे.पी.महाशब्दे, प्रा.जयवंत सोनवणे यांच्या



राजश्री चौधरी, प्रा.निशा बोरगावकर, प्रा. कांतीलाल पावरा , प्रा.विजय पाटील, प्रा.कल्पेश पाटील, प्रा.नेहा मोरे, प्रा.हर्षल कुलकर्णी आदींनी सहकार्य केले.

	Sr. No.	Method used	Content
	1.	A State Level Seminar	Resource Person-Dr. S.T. Shide Topic- Research Methodology For M.ScI- and II-year students
Academic Year 2022-23	2.	Research Article Review discussion	Literature review for M.ScII-year students
	3.	Poster Presentation	Poster Presentation on Organic Food for UG and PG students
	4.	Short Research Project	Research work done by Poster Presentation M.ScII-year students

A State Level Seminar on Research Methodology



Resource Person: Dr. S. T. Shinde guide students about How to do Research in Chemical Sciences



Poster Presentation on Organic Food for UG and PG students





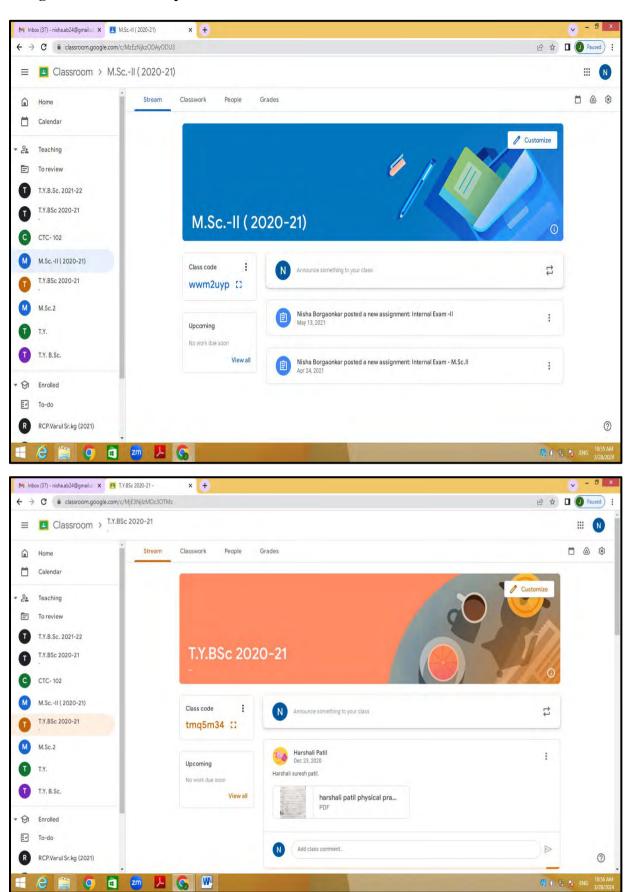
R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur Department of Chemistry The Details of ICT Pedagogy used in Teaching Learning Process For the academic year 2019-20

Sr . No	Contents	Type of ICT Material	Source	Links
1.	Internal Exam Of T. Y. B.Sc.	Test using Google form or Testmoz	Drive	https://docs.google.com/forms/d/e/1FAIp QLSfRMQ0fqUi2uakzxxFF0DUWcMsf FDAIxjPoAAY6OOnjMwbqNA/viewfor m?usp=sf_link https://docs.google.com/forms/d/e/1FAIp QLSfzFYSMPQjY7VAUhbd0Wk4qB9J k7qtoXgdonGBobVXcZeIcJQ/viewform ?usp=sf_link

R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur Department of Chemistry The Details of ICT Pedagogy used in Teaching Learning Process For the academic year 2020-21

Sr. No.	Contents	Type of ICTMaterial	Source	Links
1	F.Y .B.Sc. S.Y.B.Sc. T.Y.B.Sc.	Test using Google form or Test	Drive	https://docs.google.com/forms/d/e/1FAIpQ LSdFvxmpbTkRXrRoCD5gsa9d21II1Nf_9 EOQTlio0JnJ_e- Rbw/viewform?usp=sf_link https://docs.google.com/forms/d/e/1FAIpQ LSdjIq- C55yKMDaO6SNNv9dVrBwGjKl4S- Fo2tb_bxDT5zs3FA/viewform?usp=sf_link https://docs.google.com/forms/d/e/1FAIpQ LSeHI8nyxBZDeWh9kr- 0pYdBvWza9YPtkjJQoYk_jijToWuDaQ/vi ewform?usp=sf_link https://docs.google.com/forms/d/e/1FAIpQ LSc1i7jjirS5g6a2rZhomc- xAaQLWSugT6POXW0q80Cw3BpTiw/vie wform?usp=sf_link

Google Classroom Glimpses



Department Of Computer Science

R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur

Student Centric Learning (Pedagogies Used)

Department of Computer Science

Pedagogy used for Teaching -

- In the curriculum, students are developed by teaching basic concepts and core knowledge through core subjects such as fundamental computer science, database management system, software engineering, system programming, operating systems, and others.
- ➤ In addition to core subjects, students are developed through hands-on practice in practical subjects by teaching programming languages and various tools such as C, C++, Java, Python, SQL.
- ➤ Core knowledge is implemented by teaching various practical tools like Weka Explorer, Anaconda, VSCode, Matlab, Eclipse IDE, etc.
- ➤ Project Development At the end of the last semester of PG, students apply their knowledge to develop a project.

• Tools and Materials used-

- ➤ Black board / White Board in class room teaching.
- > Smart Board for demonstration and Presentation in class room
- > Seminar method in classroom in student involving in teaching learning process.
- ➤ Overhead projectors as well as smartboards are used to demonstrate practicals in laboratory.
- > Regular assessment of student periodically
- > Oral assessment in laboratory as well as classroom.

□ Description of the Methods -

- ➤ Black Board teaching is useful tool (smart boards) to understand the topic in audio and visually at the same time to students. Secondly assignments are given to students for broader thinking in fact they achieve learning outcomes like think unimaginable.
- ➤ Practical Work: In Assignments decided by university is implemented in laboratory apart from that additional practicals are also conducted to clear the concepts.

□ Outcomes (Learning Experience) –

- a. Understand basic and core knowledge.
- b. Expert in implementing in concept using programming languages.
- c. Develop their own projects.
- d. Confident and involved learners.
- e. Developed Soft skills.
- f. Learning surveys and Computers allows students to learn about the concepts and gain skills as logical & critical thinking, problem-solving skills.

Experiential Learning

Academic Year	Sr. No.	Method used	Content
2018-19	1.	Project Work	M.ScII

MSc II Project Work 2018-19

Sr. No.	Name of Student	Project Work	Name of Project Guide
1.	Sonawane Harshada Kishor	College management System	
2.	Chavhan Sapana Kailas	Election Analysis	
3.	Deore Swati Sharad	Advanced Reliable Real Estate Portal	Mr. S. D. Mone
4.	Patil Harshada Arun	Image Processing by using Python	
5.	Saindane Sonal Mahendra	Admission Enquiry Chat Bot Project	
6.	Hajare Pooja Baban	Android Smart City Travelling Project	Mr. B. S. Panchbhai
7.	Patil Kanchan Rajendra	Secure Online Auction Portal Project	
8.	Mittal Rina Govind	DetectionofCredit Card Fraud System	
9.	Patil Gitanjali Kailas	Real Estate Search Based on the Data Mining	
10.	Girase Ashwini Baburao	Robotic Vehicle Controlled by Using Voice	Mr. A. J. Maheshwari
11.	Kulakarni Pooja Sanjay	Heart Disease Prediction: Final Year Projects for CSE	
12.	Deshmukh Shital Sunil	Student Attendance by using Fingerprint Reader	
13.	Patil Pallavi Ravindra	Cloud Computing for Rural Banking Project	
14.	Shelar Ashwini Pintu	Opinion Mining for Comment Sentiment	

		nalysis	Mr. D. E. Chavan
15.	Girase Vaishali Sanju	Web Mining for Suspicious Keyword Prominence	
16.	Patil Rajeshri Santosh	Movies recommendations by using Machine Learning	
17.	Salunkhe Vaishnavi Nandu	Online Live Courier Tracking and Delivery System Project	
18.	Patil Suvarna Bhatu	E-commerce Website	
19.	Yeshi Krutika Dhondu	Fitness Tracker	Mr. Sonawane M. R.
20.	Sisode Meghna Pratik	Image Processing by using Java	- IVII. Sonawane IVI. K.
21.	Marathe Kamalesh Ramesh	Content Management System	
22.	Nikam Sapana Rajesh	Blog Platform	
23.	Sawle Mohini Yuvraj	Event Management System	Ms. Patil Komal P.
24.	Badagujar Kavita Vikas	Portfolio Website	
25.	Patil Ashwini Sham	Expense Tracker	
26.	Chaudhari Kanchan Sunil	To-Do List App	Ms. Rajput Mayuri
27.	Girase Ashwini Raviraj	Recipe App	



Mr. B. S. Panchbhai HOD Dept. of Computer Science



Academic	Sr. No.	Method used	Content
	1.	Project Work	M.ScII
Year 2019-20	2.	Quiz	C Programming
			Language

M.Sc.- II Project Work 2019-20

Sr. No.	Name of Student	Project Work	Name of Project Guide
1.	Patil Harshada Abhijeet	Weather App	
2.	Borse Madhuri Ravindra	Stock Market Predictor	
3.	Koli Bharti Ashok	Recommendation System	
4.	Pawar Gayatri Kailas	Image Recognition	Mr. S. D. Mone
5.	Mahale Pranali Manohar	Network Monitoring Tool	
6.	Bhavsar Chaitali Vasudeo	Intrusion Detection System	
7.	Patil Mahima Gulabarao	Secure Messaging App	
8.	Nikam Aishwarya Pradip	Firewall Management	Mr. B. S. Panchbhai
9.	Deorw Prajakta Bharat	Password Manager	
10.	Borse Harshada Yuvraj	Autonomous Drone	
11.	Karanke Soniya Shantaram	Student Information System	
12.	Girase Shubhangi Pankaj	Hospital Management System	Mr. A. J. Maheshwari
13.	More Jagruti Anil	Online Library System	
14.	Patil Roma Vilas	SQL Injection Prevention	
15.	Patil Namrata Chandrakant	Firewall Rules Analyzer	
16.	Rajput Mayuri Yogeshsingh	Data Encryption	Mr. D. E. Chavan
17.	Patil Namrata Suresh	AR Navigation App	
18.	Patil Suvarna Sham	Smart Automation Smart Agriculture	Ms. Sonawane Megha
19.	Wagh Poonam Devidas	Bug Tracking System	R.
20.	Sonawane Harshada Nandkishor	Block Chain Voting System	
21.	Patil Vijaya Virendra	Version Control System	
22.	Mali Pratibha Daulat	Smart Contrast	Ms. Hajare Pooja B.
23.	Patil Ankita Dayaram	Voice Controlled Robot	
24.	Mali Namrata Dhondu	Cloud Security	
25.	Patil Savita Ramesh	Malware Detection	Ms. Patil Gitanjali K.
26.	Wagh Pranita Sanjay	Real-Time Data Visualization	



Dept. of Computer Science



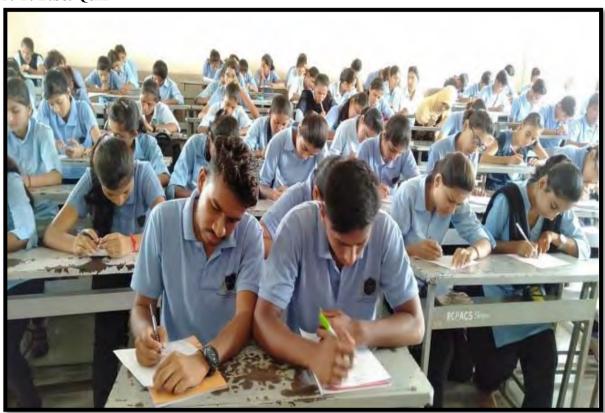
F. Y. BSc Quiz



S.Y.B.Sc. Quiz



T. Y. B.Sc. Quiz



M.Sc.. I and M.Sc.. II







Academic Year	Sr. No.	Method used	Content
2020-21	1.	Project Work	M.ScII

Project List MSc II Project Work 2020-21

Sr. No.	Name of Student	Project Work	Name of Project Guide	
1.	Sonawane Pruthvi Sanjay	Online Bookstore Management System		
2.	Kadhare Aishwarya Rajendra	Online Grocery Shopping System		
3.	Talwale Sunayana Rohidas	Student Grade Management Tool	Mr. S. D. Mone	
4.	Mali Harshada Arun	Personal Expense Tracker App		
5.	Thakare Tejashri Kishor	Weather Forecast Web Application		
6.	Bari Vaishanvi Jagdish	College Management System		
7.	Girase Gautami Mahendrasing	Recipe Sharing Platform	Mr. B. S.	
8.	Gujar Nitin Pradip	Employee Leave Management System	Panchbhai	
9.	Patil Vishal Narher	Online Voting System		
10.	Patil Ruchita Yuvraj	Library CatLog System		
11.	Biradi Shital Bhatu	Car Pooling Application	Mr. A. J.	
12.	Patil Shubham Rajendra	Appointment Booking System	Maheshwari	
13.	Patil Pallavi Anil	Online Music Streaming Service		
14.	Bhamare Priyanka Daulat	Teachers Work Management System		
15.	Valvi Pradyna Sakharam	Parking Space Finder	Mr. D. E. Chavan	
16.	Patil Pratiksha Nimba	Classified Ads Portal		
17.	Patil Vijay Bhagwat	E-Learning Platform		
18.	Parmar Priyanka Jitendra	Inventory Tracking System		
19.	Deore Sapana Ramesh	Budget Management Tool		
20.	Patil Madhuri Vishwas	Social Media Analytics Dashboard	Ms. Sonawane	
21.	Patil Nutan Pradip	Location-based Reminder App	Megha R.	
22.	Rajput Pooja Ravindra	Online Event Registration System		
23.	Shimpi Roshani Dilip	Flight Booking Portal	Ms. Hajare Pooja	
24.	Sonawane Punam Bhila ealthcare Appointment Scheduler B.] B.	
25.	Patil Madhuri Sambhaji	Tourist Information Website		
26.	Bagal Varsha Vijendra	Online Job Search Platform		
27.	Bagul Jayshree Haridas	Recipe Recommendation System	Ms. Patil Gitanjali	
28.	Rajput Suverna Himmatsing Expense Sharing App K.		K.	
29.	Patil Jagruti Daga	Sports Event Management System		



Mr. B. S. Panchbhai HOD Dept. of Computer Science



Academic Year	Sr. No.	Method used	Content
2021-22	1.	Project Work	M.ScII

MSc II Project Work 2021-22

Sr. No.	Name of Student	Project Work	Name of Project Guide
1.	Buwa Sagar Barku	Crime Rate Prediction	
2.	Rajput Priyanka Udaysing	Healthcare Facility Management Solution	
3.	Chaudhari Shubham Lotan	News Feed Application	Ma C. D. Mana
4.	Shinde Jaya Mahendra	Student Attendance Management System	Mr.S. D. Mone
5.	Sonar Kaushal Sanjay	Hateful Meme Detection	
6.	Dhakad Nisha Kailas	Online food ordering system	
7.	Patil Ashwini Nageshwar	Electronic Authentication System	
8.	Patil Nikita Yuvraj	Hostel Management System	Mr.B. S.
9.	Rajput Neha Yogendrasing	Weather Forecasting APP	Panchbhai
10.	Rajput Vaishanvi Pravinsing	News Feed App	
11.	Borse Devyani Dongar	Optical Character Recognition System OCR)	Mr. A. J.
12.	Borse Priyanka Anna	Real-time web search engine	Maheshwari
13.	Pawar Rahul Bhimrao	Task Management Application	
14.	Saindane Suresh Shankar	Android Battery Saver System	
15.	Shinde Bhavna Sharad	Online eBook Maker	
16.	Gunjal Suraj Balasaheb	Mobile Wallet with Merchant Payment	
17.	Patil Ruchika Kishor	Bank Management System	Mr. D. E. Chavan
18.	Shinde Dipali Amrut	Restaurant Booking Website	
19.	Tirmale Avinash S.	SMS Spam Filtering	
20.	Borse Nikita Ravindra	Twitter Sentiment Analysis	Ms. Hajare Pooja B.
21.	Chaudhari Laxmikant Sudhar	Online Auction System	- D.
22.	Chaudhari Lakita Ravindra	Face Detection	

23.	Brahmnkar Pradnya Ravindra	Chat App	
24.	Girase Bharti Dipak	Task Management Application	Ms. Patil Gitanjali K.
25.	Jamadar Tejaswini Balu	Real-time web search engine	T.
26.	Mahale Tejal Abhay	Virtual Private Network	
27.	Marathe Gauri Kailas	Library Management System	
28.	Patil Dhanashri Ravindra	College Management System	
29.	Patil Rahul Kailas	Hospital Management System	Ms. Bholane A.
30.	Patil Roshni Jibhu	News Feed App	7 S.



Mr. B. S. Panchbhai HOD Dept. of Computer Science



Academic Year	Sr. No.	Method used	Content
2022-23	1.	Project Work	M.Sc.–I And M.ScII
2022-23	2.	Quiz Competition	Java Programming Language

MSc II Project Work 2022-23

Sr. No.	Name of Student	Project Work	Name of Project Guide
1.	Pawara Lakshmi Ambalal	Online Coffee Shop	
2.	Thakare Chetana Hiraman	Online Doctor Appointment System	
3.	Badgujar Neha Kiran	Life Insurance	M C D M
4.	Khairnar Sapna Vilas	Online Quiz System	Mr. S. D. Mone
5.	Rajput Truti Pankaj	Recipe Management System	
6.	Wagh Bhagyshree Bhatu	Employee Attendance Tracker	
7.	Patil Pallavi Sunil	Task Management App	Mr. B. S. Panchbhai
8.	Gavit Amish Gajanan	Library Management System	
9.	Wagh Ruchita Girish	Online Pizza Ordering	
10.	Jadhav Rahul Amrut	Car Rental Management System	
11.	Marthe Durgesh Shantaram	Appointment Scheduling System	
12.	Bhoi Archana Jayesh	Online Shopping Cart	Mr. A. J. Maheshwari
13.	Patil Megha Manoj	Hotel Reservation System	
14.	Patil Ruchita Balu	Health and Fitness Tracker	
15.	Patel Trupti Karan	Music Player with Playlist Management	Mr. Chavan D. E.
16.	Chavan Megha Sunil	To-Do List Application	
17.	Patil Mayuri Dhondu	Crop Predection	Ms. A. S. Bholane
18.	Jadhav Jagruti Ravindra	Classified Ads Website	
19.	Patil Harshada Ramesh	Online Course Registration System	
20.	Patil Madhuri Rajendra	Inventory Management System	Mr. R. K. Patil
21.	Badgujar Megha Pravin	Personal Finance Manager	
22.	Patil Dipali Dhudku	Social Media Analytics Tool	
23.	Mahajan Kamini Arun	Furniture Management System	Mr. D. U. Patil
24.	Yelve Neha Kishor	Bus Booking System	
25.	Patil Bhavesh Harshal	Medical Appointment Scheduler	
26.	Kapole Isha Omkar	Event Management System	Mr. S. H. Rajput
27.	Gujrathi Bhupendra Suresh	Flight Reservation System	



Mr. S. D. Mone HOD Dept. of Computer Science





Quiz Competition



Quiz Competition



Academic Year	Sr. No.	Method used	Content
2022-23	1.	PPT Presentations	Machine learning

PPT Presentation on machine learning



PPT Presentation on Machine Learning.



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College Shirpur Department of Computer Science

The Details of ICT Pedagogy used in Teaching Learning Process For the academic year 2020-21

-	For the academic year 2020-21			
Sr. No	Faculty Name	Link		
		Paper -II C-PROGRAMMING 2020-21 Class code eup5hkc url https://classroom.google.com/c/MjQyNTY0NzgyODgz CS_301 SOFTWARE ENGINEERING M.Sc 2020-21 Class code is er2pw		
1.	Mr. A. J. Maheshwari	=manufactured Internal Test-I CS_403 Data warehousing and Mining 20-21 https://docs.google.com/forms/d/e/1FAIpQLScPhVC2bTUyEbmSFzrXTkzFzIcT4erl_kjiUmTBUlyukmMbiA/viewform?usp=pp_url&entry.158584 4893		
		CS_301 Software Engineering Test-III https://docs.google.com/forms/d/e/1FAIpQLScPhVC2bTUyEbmSFzrXTk zFzIcT4erl_kjiUmTBUlyukmMbiA/viewform?usp=pp_url&entry.158584 4893=manufactured		
		Assingment https://classroom.google.com/c/NDUwMDMxODYxMjMz/a/NDQ0MDU <a a="" c="" classroom.google.com="" href="https://classroom.google.com/c/NDUwMDMxDdx.google.com/c/NDUwMDMxdx.google.com/c/NDUwMDMxdx.google.com/c/Ndx.goog</td></tr><tr><td>2.</td><td>Mr. S. D.
Mone</td><td>Internal test https://classroom.google.com/c/NDQ5ODA0MTgwNDIz/a/NDUyOTQ1 <u>MzY3MTI4/details</u>		
2		SYBSC (CS) 20-21 Semester I C++ Programming-I https://classroom.google.com/c/NDQxNjM2MzY4MDIz?cjc=glvd2cy		
3.	Mr. B.S. Panchbhai	TYBSc Computer Science Sem.II Java Programming https://classroom.google.com/c/MjcwODYyNDU4NzJa?cjc=2psv4q4		
		msc-II https://classroom.google.com/c/MzY2OTUwOTUzMTA0?cjc=quigbhy .		
4.	Mr. D. E. Chavhan	tybsc https://classroom.google.com/c/MjcwOTE0MDc1OTha?cjc=fpagsex		
		fybsc https://classroom.google.com/c/MjQ4MTIwNTM3MDUz?cjc=mozdouh		

Online Teaching Learning Resource Link – 2021-22

Sr. No	Faculty Name	Link Google classroom and Assignments
		C-Programming- I and II 2022-2023 Class code: pwf7l2h url:
		https://classroom.google.com/c/NTAxMzE3MDU3NzEz
	Mr. A. J.	Exam link: CS_505 Python programming-I
1.	Maheshwari	https://docs.google.com/forms/d/e/1FAIpQLScoo9IORwaZUn5A
	Maneshwan	<u>toH9Rr-</u>
		0mHNfnJW8zRgnmTT2HFszBv4Ocg/viewform?usp=pp_url
		<u>2021-22</u>
		Google class room for S.Y.B.Sc.
		pirv5xp
2.	Mr. S. D.	May 2021
	Mone	Practical examination
		https://classroom.google.com/c/MjcwODc1MzE0MDFa/p/MzM0
		NjgzODE5ODQ4/details
		TYBSc21-22
		Computer Graphics
		https://classroom.google.com/c/NDA0NzU3OTQ0OTkw?cjc=e
		2noh6d
		MscI 2021-2022
	Mr. B.S.	Sem.II (Compiler Construction)
3.	Panchbhai	https://classroom.google.com/c/MjcxNDEwNTI1MjZa?cjc=t43cf
		S0 Class M.S. Camarata Science MS, H 2021 2022
		Class: M.Sc. Computer Science MSc-II 2021-2022 Sem-IV
		Natural Language Processing
		https://classroom.google.com/c/NDY4NzA0Mjc1NjMx?cjc=2v
		mts4s
		msc-I
		https://classroom.google.com/c/OTMyNTIwMTU4NzZa?cjc=3d
		s4lei
		msc-I
4.	Mr. D. E.	https://classroom.google.com/c/MjcyODc4MDE4ODNa?cjc=gfn
	Chavhan	<u>iyyk</u>
		MSC-II
		https://classroom.google.com/c/MTUzNzE5NDMyOTM0?cjc=3
		<u>3g5jah</u> s

Department Of Microbiology & Biotechnology

R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur

Student Centric Learning (Pedagogies Used)

Department of Microbiology & Biotechnology

• Pedagogy used for Teaching -

Participatory Learning, Classroom Teaching, Interactive Sessions and Cutting-Edge Practice, Blended Learning, Flipped classroom.

Tools and Materials used-

- a. Blackboard or whiteboard
- b. Projectors.
- c. Computers for Bioinformatics practical demonstrations
- d. PPTs.
- e. Teaching and learning resources- Reference Books /Text books, other references, films, radio programs, multimedia, digital learning resources including video, audio, animation and images, expert lectures
- f. Softwares used- Mega6, ClustalW, Rasmol software, etc.

□ Description of the Methods –

- 1. Teaching methods are the broader techniques used to help students achieve learning outcomes, while activities are the different waysofimplementing these methods.
- 2. Practical Work: all teaching and learning activities in the sciences in which the student is actively involved and that allow the mobilization of science processes skills and scientific knowledge and that may be materialized by paper and pencil activities or observing and/or manipulating materials.

☐ Outcomes (Learning Experience) -

- 1: A strong sense of identity.
- 2: Connection to and contribution with their world.
- 3: A strong sense of wellbeing.
- 4: Confident and involved learners.
- 5: Soft skills.
- 6: Learning Computers & Bioinformatics allows students to learn about the concepts and

gain skills as logical & critical thinking, problem-solving, management skills

Experiential Learning

Academic Year	Sr. No.	Method used	Content
2018-19	1.	Project Work	M. Sc-II
2010-19	2.	Industrial Visits	T. Y. B.Sc

Project Work



KAVAYITRI BAHINABAI CHAUDHARI NMU, JALGAON R.C.PATEL ARTS, COMMERCE AND SCIENCE COLLEGE, SHIRPUR

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the work entitle "To Study the Isolation of Azotobacter and it's Application as a Bio- Fertilizer" is a carried out by Miss. Bhavsar Shruti S, Miss. Navale Sneha V, Miss. Patil Karishma Y, Mr. Shimpi Rupesh G and Miss. Verma Anupama O. under the supervision of Dr. R.H. Patil at department of biotechnology, R. C.Patel ACS College, Shirpur towards the partial fulfilment of master of Science in Biotechnology during the academic year 2018-2019.

Place: Shirpur Date: /4/2019

Dr. R. H. Patil

Project Guide,

Department of Biotechnology

-

Dr. R. H. Patil

Head,

Department of Biotechnology

Internal Examiner



Department of MICROBIOLOGY & BIOTECHNOLOGY

R.C.Patel A.C.S.College, Shirpur (Dist-Dhule), MS Tel: (02563)-257328(Off.) Web: www.mbbtshirpur.in

CERTIFICATE

This is to certify that project entitled "Production and purification of Xylanase from Aspergillus niger isolated from corn cobs" is the original research work carried out by Mr. Shubham Saner, Ms. Nilam Mali, Ms. Neha More, Ms. Manish Patil, and Ms. Sunayana Ahire under supervision of Dr. Sandip P. Patil and Prof. Leena P. Shirsath in the partial fulfilment of degree of Master of Science (Microbiology) during the academic year 2018-19 at R. C. Patel A. S. C. College, Shirpur.

The work presented in this dissertation was carried out under my guidance and supervision. The findings reported in this dissertation are not allowed to publish in any journal without the permission from research guide.

Place: Shirpur

Date: 20/04/2019

Dr. Sandip P. Patil

Project Guide

Prof. Leena P. Shirsath Project Co-guide Dr. Rayindra H. Patil Head of department



Project List (2018-19) M.Sc. -II (Microbiology)

Sr. No.	Name of Students	Project Title	Name of Project Guide
1.	Girnar Dipti Dhurandhar		
2.	Gurav Mahesh Ashok	Isolation, characterization and evaluation	
3.	Patil Pradip Chhagan	probiotic properties of lactobacilli isolated	Dr. M. P. Patil
4.	Valvi Sunil Chamarya	from different flowers	
5.	Patil Rupali Vilas		
6.	Khatik Riza Bano Mohiyoddin		
7.	Kulkarni Monika Keshav	Deceleration of taxtile day by leases	
8.	Mali Nilam Vilas	Decolourisation of textile dye by laccase from bacterial isolate	Dr. S. P. Patil
9.	Mali Nilam Vilas	ITOTTI Dacteriai Isolate	
10.	Suryawanshi Prachi		
11.	More Neha Patingrao		
12.	Patil Prajakta Madhukar		
13.	Patil Manisha Ramchandra	Studies on the use of consortia of plants	
14.	Patil Megha Vinayak	extract and its antibacterial activity against	Dr. M. R. Patil
15.	Ahire Sunayana Shivaji	dental pathogens	Di. Wi. K. I atti
16.	Saner Shubham Suresh	dental pathogens	
17.	Wani Pratik Mohan		
18.	Pawar Shubham Somnath		
19.	Dhanwani Mamata Dheeraj		
20.	Lohar Prashant Navneet	Evaluation of insecticidal efficacy of	
21.	Patil Ashwin Govind	Moringa oleifera and ricinus communis	Dr. R. H. Patil
22.	Gujar Mayuri Prakash	extract against alurolobus	
23.	Pawar Shubham Somnath		
24.	Dhanwani Mamata Dheeraj		



Dr. S. P. Patil HOD Dept. of Microbiology & Biotechnology



Project List M.Sc-II (Biotechnology)

Sr.	Name of Students	Project Title	Name of Project Guide
No.	Name of Students	110ject 11tic	Name of Froject Guide
1.	Bhavsar Shruti Sunil		
2.	Navale Sneha Vilas	T4-1-4 :1-4:6	
3.	Patil Karishma Yashvant	To study the isolation of	Dr. L. P. Shirsath
4.	Shimpi Rupesh Gopal	Azotobacter and its applications as biofertilizers	Dr. L. P. Shirsath
5.	Verma Anupama Omprakash	as diotertifizers	
6.	Bhavsar Shruti Sunil		
7.	Patel Minakshi Krushnadas		
8.	Pathanmuzammil Mukhtar	Synthesis of silver nanoparticles	
	Khan	from azadirecta indica and its	Ms. Madhavi Shirsath
9.	Birhade Bharti Ramesh	antifungal activity	
10.	Borase Amol Amrutlal		
11.	Patil Shubham Khushal	Isolation of and about formal from	
12.	Pawar Diksha Prabhakar	Isolation of endophytic fungi from	Ms. A. A. Joshi
13.	Pawar Gayatri Panilal	indigenous plant and its anti- inflammatory activity	IVIS. A. A. JOSHI
14.	Salunke Shweta Vikas	initianimatory activity	
15.	Sonar Aditi Rajendra		
16.	Kanungo Monika	Antibo stanial natantial and	
	Madhusudan	Antibacterial potential and phytochemical potential of	Ms. A. C. Patil
17.	Borse Chetan Nilkantha	1 7	IVIS. A. C. Falli
18.	Kanungo Monika	- Curcuma longa plant	
	Madhusudan		

Quirym

Dr. S. P. Patil HOD Dept. of Microbiology &



Biotechnology

Industrial Visit



Industrial Visits at Schon Pharmaceuticals Limited, Indore



Academic Year	Sr. No.	Method used	Content
2019-20	1.	Industrial Visit	T.Y.B.Sc

Project Work



R.C. Patel Art's, Science and Commerce College, Shirpur

Tel: (02563) -257328 (Off.) (02563)-259034, Fax: (02563)-255189

Department of Microbiology and Biotechnology

CERTIFICATE

This is to certify that project entitled "Evaluation of Insecticidal Efficacy of Moringa oleifera and Ricinus communis extract against Aleurolobus barodensis." submitted for partial fulfilment of Degree of "Master of Science in Microbiology" was carried out in the laboratories of R. C. Patel A. S. C. College, Shirpur. Submitted by Miss. Dhanwani Mamta D., Mr Pawar Shubham S., Mr. Lohar Prashant N., Mr. Patil Ashwin G. and Miss. Gujar Mayuri P. The work is presented in this dissertation was carryout under my guidance and supervision.

Place: Shirpur

m datate

PATELAR

Head,
Department of Microbiology
and Biotechnology

Dr. Ravindra H. Patil.

Internal Examiner

Dr. Ravindra H. Patil.

Head,

partment of Microbiology and Biotechnology

Date: 21/04/2019



R .C. Patel Art's, Science and Commerce College, Shirpur

Tel: (02563) -257328 (Off.) (02563)-259034, Fax: (02563)-255189

Department of Microbiology and Biotechnology

CERTIFICATE

This is to certify that project entitled "Isolation, Characterization and Evaluation of Probiotic Properties of Lactobacillus from Different

Flowers." submitted for partial fulfilment of Degree of "Master of Science in Microbiology" was carried out in the laboratories of R. C. Patel A. S. C. College, Shirpur. Submitted by Miss. Girnar Dipti D. Miss. Patil Rupali v. Mr. Patil Pradip C. Mr. Gurav Mahesh A. Mr. Valvi Sunil C.

The work is presented in this dissertation was carryout under my guidance and supervision.

Place: Shirpur

Date: 21/04/2019

GUIDE

Prof. Mahesh P. Patil

Ass. Professor

. R.C. Patel A. Sc. & C.

College, Shirpur

Internal Examiner

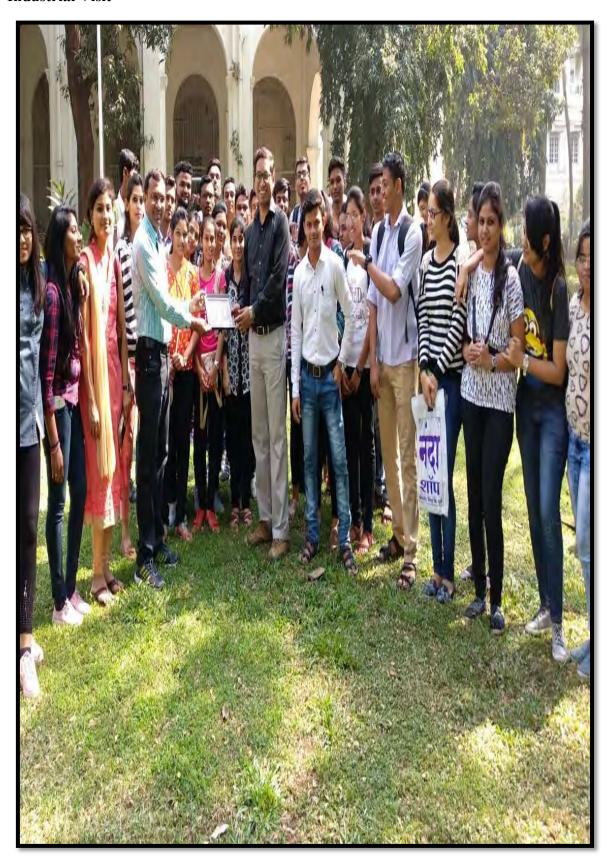
Dr. Ravindra H. Patil

Head,

Department of Microbiology

ad Biotechnology

Industrial Visit



Industrial Visits at Haffkine Institute, Mumbai



Academic Year	Sr. No.	Method used	Content
2020-21	1.	Project Work	M.Sc. Project List

Project List M.Sc-II Biotechnology (2020-21)

Sr. No.	Name of Students	Project Title	Name of Project Guide
1.	Bagad Amruta Dilip	Screening of	
2.	Birhade Pallavi Makkan	phytoconstituents from	Dr. L.P. Shirsath
3.	Gurubakshani Mamta Yuvraj	Spillanthes acmella and	Di. L.i . Sillisatii
4.	Koli Jayshree Jagdish	its antibacterial activity	
5.	More Shivani Rajendra	Purification and	
6.	Patel Leena Ishwar	characterization of	Ms. Madhavi Shirsath
7.	Patil Chetana Ishwar	bacterial proteases from fungi	ivis. iviauliavi Siliisauli
8.	Patil Jyotshna Rajendra		
9.	Patil Divya Vinay	Synthesis of zinc	Ms. A. A. Joshi
10.	More Shivani Rajendra	nanoparticles and its	MS. A. A. JOSHI
11.	Patil Harshada Yashwant	antibacterial potential	
12.	Patil Hemangi Narendra		
13.	Patil Prajaktakumari		
	Omkarbhai	Isolation and	
14.	Patil Suvarna Ashok	characterization of	Ms. Jayashri S.pawar
15.	Patil Harshada Yashwant	probiotic.	
16.	Patil Hemangi Narendra	probletic.	
17.	Pawara Nitin Bhika	Samanina of	
18.	Shirsath Gayatri Mohan	Screening of phytoconstituents from	
19.	Shirsath Sheetal Mohan	Ruta <i>graveolans</i> and its	Ms. A. C. Patil
20.	Vasave Simran Yogesh	antifungal activity	
21.	Pawara Nitin Bhika	anulungal activity	

Dr. S. P. Patil HOD

Dept. of Microbiology & Biotechnology



Project List (2020-21) M.Sc-II (Microbiology)

Sr.	Name of Students	Ducient Title	Name of Project
No.	Name of Students	Project Title	Guide
1.	Birhade Mayuri Vilas		
2.	Chaudhari Karishma Dilip	Isolation of endophytic	Dr. R. H. Patil
3.	Chavan Tejaswini Ramesh	fungi	
4.	Deshmukh Aishwarya Pravinsingh		
5.	Gawale Darshana Rohidas		
6.	Kapade Priyanka Rajendra	Isolation of dye degrading	Dr. S.P. Patil
7.	Koli Sandhya Sudhakar	bacteria	
8.	Kureshee Shoheb Aashik		
9.	Mali Dhiraj Sanjay	Green synthesis of silver	
10.	Panchabhai Pratik Sanjay	nanoparticals using plant	Dr. A. G. Patil
11.	Pardeshi Krushna Rajendra	leaf extract	Di. A. G. Fatti
12.	Patil Harshavi Ravindra	lear extract	
13.	Patil Rahul Prakash	Isolation and	
14.	Patil Sampada Gorakh	characterization of	Mr. M.P. Patil
15.	Salunkhe Payal Kishor	fructophillic Lactobacillus	
16.	Valavi Ramsing Narsha	from different fruits	
17.	Wadhwa Divyani Laxmandas	Isolation of PGPR	
18.	Wadile Sagar Sham	organism	Ms. M. R.Patil
19.	Birhade Mayuri Vilas	- organism	

Quirdm

Dr. S. P. Patil HOD Dept. of Microbiology & Biotechnology



Academic Year 2021-22	Sr. No.	Method used	Content
2021-22	1.	Project Work	M. Sc-II

Project Work



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Department of MICROBIOLOGY AND BIOTECHNOLOGY

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CERTIFICATE

This is to certify that project extitled "Development of Microbial Committees for the Decolorization of Resettive Dys Vellow K-HL." is the original testarch work comied out by Mr. Tejas B. Chandhari, Mr. Mayor R. Patil, Mr. Kiran P., Tamboli, Ms. Nikota D. Randine, Ms. Arati P. Patil and Ms. Dipuli D. Patil under supervision of Dy. Sandip P. Patil (Head, Microbiology) in the partial fulfillment of degree of Master of Science (Microbiology) during the scademic year 2021-22 at R. C. Patel A. S. C. College, Shipper

The work presented is this dissertation was carried out under my guidance and supervision. The findings reported in this dissertation are not allowed to publish in any Journal Book without the permission of Remarch guide and the Head of the Department.

Place: Shipper

Date:

Project Guide

SALES OF LANGE

Head of department

Seprend Example

M. Sc. (Manufactory) Project Dissertance 2021-22

Page 1



R. C. Patel Arts, Science and Commerce College Shirpur

Department of Biotechnology

CERTIFICATE

This is to certify that dissertation work entitled "GREEN SYNTHESIS OF SILVER NANOPARTICLES USING THE LEAF EXTRACT OF ELAEOCARPUS GANITRUS" is the original research work carried out by Mr. Patil Jay, Mr. Sonar Purushottam, Ms. Patil Bhavana, Ms. Bhairav Unnati, Ms. Sonawane Nandini under the supervision of Mrs. Amruta Joshi for the partial fulfillment of the degree of "Master of Science in Biotechnology "during the academic year 2021-2022 at R. C. Patel A. S. C. College, Shirpur.

Place: Shirpur

Date:

Mrs. Amruta Joshi

Asst. Professor,

Dept. of Biotechnology

R. C. Patel, A.S.C. College,

Shirpur - 425405

INTERNAL EXAMINAR

MSc PROJECT DISSERTATION

Dr. Ravindra H. Patil

Head

Dept. Of Biotechnology

R. C. Patel, A. S.C. College,

Shirpur - 425405

EXTERNAL EXAMINER

PAGE 3



R. C. Patel arts, Commerce, Science Collage, Shirpur

Department of Microbiology

CERTIFICATE

This is to certify that project entitled "ISOLATION OF PHOSPHATE SOLUBILIZING BACTERIA FROM RHIZOSPHERE SOIL" was carried out in the laboratories of R. C. Patel A. S. C. College, Shirpur. Submitted by Miss. Puja Jayaswal, Miss. Vaibhavi Bachhav, Miss. Bhakti Bagale, Miss. Rituja Patil, Miss. Pooja Pimpale, Miss. Pratiksha Malche, Miss. Chetana Shinde

The work is presented in this dissertation was carried out under my guidance and supervision.

Place: - Shirpur

Date: 18 0 1

Project supervisor

Dr. Ravindra H. Patil

Internal examiner

Head Department of Microbiology

Dr. Sandip R. Patil



R. C. Patel, Arts, Commerce and Science College, Shirpur

Department of Biotechnology

CERTIFICATE

This is to certify that the project entitled "Biogenic synthesis of Silver Nanoparticles using plant leaf extract of Cissus quadrangularis" submitted for partial fulfillment of Degree of "Master of Science in Biotechnology" was carried out in the Department of Biotechnology and Microbiology, R. C. Patel, ACS, College, Shirpur, by Ms. Sakshi Mahajan, Ms. Pradnya Desale, Ms. Karishma Patil, Mr. Ganesh Kadam, Mr. Paresh Chaudhari under the guidance of Mrs. Ashwini Patil.

The work presented in this dissertation was carried out under my guidance and supervision. The investigation described in this report is not allowed to publish in any journal without the permission from Research Guide and Head of Department of Biotechnology, R. C. Patel, ACS, College, Shirpur.

Place: Shirpur

Date:

Mrs. Ashwini Patil

Asst. Professor.

Dept. Of Biotechnology,

R. C. Patel, ACS, College,

Shirpur - 425405

Internal Examiner

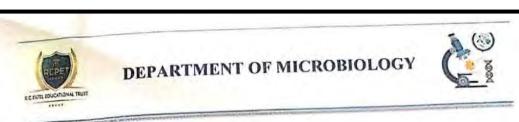
Dr. Ravindra H. Patil

Head.

Dept. Of Biotechnology

R. C. Patel, ACS, College,

Shirpur - 425405



CERTIFICATE

This is to certify that project entitled "Green synthesis of silver nanoparticles using Butea Monosperma plant extract: In vitro characterizations and antibacterial activity", submitted for partial fulfilment of degree of "Master of Science in Microbiology" were carried out in the Department of microbiology, R.C. Patel A.C.S. College, Shirpur, By Mr. Saurabh Marathe, Miss. Ashwini Sonawane, Miss. Amrapali Wagh, Miss.Hemangi Patil, Miss. Riya Godhawani, Mr. Sandeep Patil, Miss.Nisha Rajput, This work was carried out during the academic year 2021-22 under the supervision of Dr. Ashwini G. Patil (Asst. Professor, Microbiology).

The work presented in this dissertation was carried out under my guidance and supervision. The investigation described in this report is not allowed to publish in any journal without the permission from research guide/head department of microbiology,

R. C. Patel A. C. S. College, Shirpur.

Place: Shirpur

Date:

Dr. Ashwini G. Pati (Project Guide)

Internal Examiner

Head Dept. of Microbiology

Project List (2021-22) M. Sc-II (Microbiology)

Sr. No.	Name of Students	Project Title	Name of Project Guide
1.	Chaudhari Tejas Baburao		
1.	Bachhav		
2.	Patil Arati Pramod	Development of Microbial	
3.	Patil Mayur Ramkrushna	Consortium for the decolorization of	Dr. S. P. Patil
4.	Tamboli kiran prakash	Reactive Dye Yellow K-HL	
5.	Patil Dipali Dhanraj		
6.	Randive Nikita Devidas		
7.	Bagale Bhakti Dilip		
8.	Vaibhavi Chandrakant		
٥.	Bacchav		
9.	Malache Pratiksha Bhimsing	Isolation of about the solubilities	D. D. H. Datil
10.	Pimpale Pooja mukundrao	Isolation of phosphate solubilizing bacteria from rhizoshere soil	Dr. R.H. Patil
11.	Patil Rituja Bhalchandra		
12.	Shinde Chetanaben		
12.	Dnyaneshwar		
13.	Jayaswal Puja Narendra		
14.	Sonawane Ashwini Rajendra		
15.	Marathe Saurabh Eknath		
16.	Wagh Amrapali soma	Green Synthesis of Silver Nanoparticles using <i>Butea</i>	
17.	Godhwani Riya Balram	Monosperma plant extract: In vitro	Dr. A.G.Patil
18.	Patil Sandeep Prakash	characterization and antibacterial	
19.	Patil Hemangi Prabhakar	activity	
20.	Rajput Nisha bhatusing		
21.	Jayaswal Puja Narendra		
22.	Vispute Vaibhav Ramkrishna		
23.	Girase Sapana Lalsing		
24.	Patil Prerna sanjiv	Isolation of endophytic fungi from	Da M. D. Dadil
25.	Pawar Ritika ashok	indigenous medicinal plants	Dr. M. R. Patil
26.	Chelani Kajal Sanjay		
27.	Khopade Darshana Ashok	7	
29.	ShirsathAnkita Rajendra		
30.	Pawar Prajwal somnath	7	
31.	Dorik Prashant Dnyaneshwar	Isolation, identification and potential	
32.	Wagh Megha Udesh	probiotic characterization of	Dr. M.P. Patil
33.	Chaudhari Nayana Sunil	fructophillic lactic acid bacteria	
34.	Mali Pranil Suryakant		
35.	Patil Mahima Sanjay		



Dr. S. P. Patil HOD Dept. of Microbiology & Biotechnology



Project List M.Sc.-II (Biotechnology)

Sr. No.	Students Name	Project Title	Name of Project Guide
1.	Kulkarni Mayuri Mahendra	Due desetion and montial above etanimetics	
2.	Bhamre Megha Umesh	Production and partial characterization	Dr. L.P. Shirsath
3.	Pardeshi Pranita Surendra	of biosurfactant produced by crude oil degrading bacteria	Dr. L.P. Snirsatn
4.	Shedake Mitesh Arjaun	degrading bacteria	
5.	Bidkar Ajinkya Harendra	Construction for the construction of	
6.	Patil Ruchita Himmat	Green synthesisofsilver nanoparticals	Dr. J.S. Patil
7.	Patil Jayshree Rajendra	using plant root tuber	
8.	Patil Jay Eknath		
9.	Sonawane Nandini Ravindra	Chan aventhasis of silven non-monticels	
10.	Bhairav Unnati Sunil	Green synthesis of silver nanoparticals using leaf extract.	Ms. A. A. Joshi
11.	Sonar Purshottam Somnath	using leaf extract.	
12.	Patil Bhavana Valmik		
13.	Mange Snehlata Suresh		
14.	Harsola Kruti Bharat	Isolation & characterization of potash	Ms. H. D. Pardeshi
15.	Raheja Palak Prakashkumar	solubilizing bacteria.	Wis. 11. D. 1 alucsiii
16.	Wadile Rajshri Kashinath		
17.	Mahajan Sakshi Dhananjay		
18.	Chaudhari Paresh Manoj	Biogenic synthesis of silver nano	
19.	Desale Pradnya Jayvant	particals using plant extract.	Ms. A. C. Patil
20.	Kadam Ganesh Dattu	particals using plant extract.	
21.	Patil Karishma Nitin		



Dr. S. P. Patil

HOD

Dept. of Microbiology & Biotechnology



Academic Year 2022-23	Sr. No.	Method used	Content
	1.	Project Work	M.Sc-II
2022-23	2.	Industrial Visits	T.Y.B.Sc

Project Work



Project Work

Opnimisation of Am Die Decologismon by Microbial Consorning for the Management of Textile Waste Water Department of MICROBIOLOGY AND RIOTECHNOLOGY CERTIFICATE This is to certify that project entitled "Optimization of April Discontinuous by Amening Consortions for the Management of Fernils Waste Watter is the original research work carried out by Ms. Janhavi J. Patil, Mr. Manish S. Jadhav, Mr. Mangesh G. Hajare, Ms. Kshirija S. Valvi. Ms. Sonali R. Mali. Mr. Manoj S. Pawara and Mr. Indrasing V. Vasave under the supervision of Dr. Sandip P. Patil (Project Guide) and Ms. Harsha D. Paraleshi (Project Co-Guide) in the partial fulfilment of degree of Marter of Science (Microbiology) during the academic year 2022-23 at R. C. Patel A. S. C. College, Shirpur. The work presented in this dissertation was carried out under my guidance and supervision. The findings reported in this dissertation are not allowed to publish in any Journal/Book without the permission of Research/ Project guide and Co-Guide. Place: Shirpur Date: 07/06/2023 Project Guide Project Co-Guide Head of department Internal Examiner M. Sc (Microbiology) Project Dissertation 2022-23 21



Department of MICROBIOLOGY AND BIOTECHNOLOGY

R, C. Patel A.C.S.College, Shirpur, (Dist-Dhule), MS Lel. (02563)-299328(Off.) Web: www.mbbishirpur.in

CERTIFICATE

This is to certify that project entitled "ISOLATION OF ENDOPHYTIC FUNGI FROM ETHNO MEDICINAL PLANTS AND THEIR BIOLOGICAL ACTIVITY," is the original research work carried out by Mr. Parag K. Ahirrao, Miss. Neha R. Mali, Miss. Yogita S. Dorik, Miss. Bhagyashree K. Khairnar, Miss. Shital N. Jadhav, Miss. Kiran A. Behere, Mr. Sumit S. Patil under supervision of Dr. Ravindra H. Patil (Head, Mircobiology) in the partial fulfilment of degree of Master of Science (Microbiology) during the academic year 2022-23 at R. C. Patel A. S. C. College, Shirpur.

The work presented in this dissertation was carried out under my guidance and supervision. The findings reported in this dissertation are not allowed to publish in any journal/Book without the permission of research guide and the Head of the Department.

Place: - Shirpur

Date : -

Dr. Ravindra H. Patil Head, Department of Microbiology

examiner

Dr. Mohini R.Patil
Assistant Professor
Department of Microbiology

" Isolation of plant growth promoting organism and study on their applications as biofertilizer"

RCPET

DEPARTMENT OF

R.C. PATEL A. C. S. COLLEGE

MICROBIOLOGY

SHIRPUR,(DIST-DHULE),MS

AND

TEL:(02563)-299328(OFF.)

BIOTECHNOLOGY

WEB: www.mbbtshirpur.i

CERTIFICATE

This is to certify that project entitled "Isolation of plant growth promoting organism and study on their applications as biofertilizer" is the original research work carried out by Ms. Hemakshi Vadnere, Ms. Dipika Khairnar, Ms.Kamini Chaudhari, Ms. Smita Deore, Ms. Pradnya Rajput, Mr.Akshay Sonawane, Mr.Pushkaraj Salunkhe under supervision of Dr. Mohini R. Patil (Department Of Microbiology) in the partial fulfillment of degree of Master Of Science (Microbiology) during the academic year 2022-2023 at R.C. Patel A. S. C. College, Shirpur.

The work presented in this dissertation was carried out under my guidance and supervision. The findings reported in this dissertation are not allowed to publish in any Journal/Book without the permission of Research/Project guide.

Place: Shirpur

Date: 07/06/2023

Project Guide

Head of department

External Examiner 3

No. of the state o

Internal Examiner



DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the project entitled "Isolation, Identification, and Potential Probiotic Characterization on of fructophilic lactic acid bacteria from fructophilic niches", submitted for partial fulfillment of the degree of "Master of Science in Biotechnology" were carried out in the Department of Biotechnology, R.C. Patel A.C.S. College Shirpur. By Mr. Mayur Patil, Mr. Rahul Nikam, Ms. Nikita Patil, Ms. Tejasvini Deore, Mr. Akash Pawar, Ms. Mona Bhamre, Ms. Mayuri Tolkar, Ms. Jayshree Patil. This work was carried out during the academic year 2022-23 under the supervision of Dr. Mahesh P. Patil (Asst. Professor, Microbiology).

The work presented in this dissertation was carried out under my guidance and supervision. The investigation described in this report is not allowed to publish in any journal without permission from the Research Guide/Head Department of Biotechnology, R. C. Patel A. C. S. College Shirpur.

Place: Shirpur

Date: 07/06/2023

Dr. Mahesh p. Patil (Project Guide)

Internal Examiner

Head

Dept. of Biotechnology

Production, Partial Characterization and Applications of Bloactive Compound from Microbial Origin



Department of
MICROBIOLOGY
AND
BIOTECHNOLOGY

R. C. Patel A.C.S.College, Shirpur, (Dist-Dhule), MS Tel: (02563)-299328(Off.)

Web: www.mbbtshirpur.in

CERTIFICATE

This is to certify that project entitled "Production, Partial Characterization and Applications of Bioactive Compound from Microbial Origin" is the original research work carried out by Ms. Sneha D. Sonawane, Ms. Jayashree G. Patil, Mr. Prashant M. Rajput, Ms. Kalyani R. Sonawane, Ms. Kajal H. Borse, Mr. Hritik S. Girase, Mr. Sachin P.Harankar under supervision of Dr. Sandip P. Patil (Project Guide) and Ms. Varsha D. Jayaswal (Project Co-Guide) in the partial fulfilment of degree of Master of Science (Microbiology) during the academic year 2022-23 at R. C. Patel A. S. C. College, Shirpur.

The work presented in this dissertation was carried out under my guidance and supervision. The findings reported in this dissertation are not allowed to publish in any Journal/Book without the permission of Research/ Project guide and Co-Guide.

Place: Shirpur

Date: 07-06-2023.

Project Guide

Project Co-Guide

Head of department

Bodus 18

The state of the s

Jaternal Examiner

M. Sc. (Microbiology) Project Dissertation 2022 -23

Page 2

Green questions of after nanoparticles using flower extract of Waket procumbers. In astrochomocorpositon and antifactorial activity



Department of Biotechnology And Microbiology

R.c. Patel A.C.S. Callege, Shirpur, (Dist-Dhale), MS Tel: (025613)-209328(OIE) Web: www.mblashirpur.in

CERTIFICATE

This is to certify that the project entitled "Green synthesis of silver nanoparticles using flower extract of Irides procumbens: In vitro characterization and antibacterial activity, submitted for partial fulfillment of the degree of "Master of Science in Biotechnology" were carried out in the Department of Biotechnology, R.C. Patel A.C.S. College, Shirpur, By. Mr. Ketan R. Bornare, Mr. Jagdish Y. Patil, Mr. Dipak S. Jadhav, Ms. Jagruti A. Mali, Mr. Robit S. Ahire, Ms. Yashshshri S.More, Ms.Roshni Y. Pawar, Ms.Tejaswini S.Nikam

This work was carried out during the academic year 2022-23 under the supervision of Dr. Ashwini G. Patil (Asst. Professor, Microbiology).

The work presented in this dissertation was carried out under my guidance and supervision. The investigation described in this report is not allowed to publish in any journal without the permission from research guide/head department of Biotechnology,

R. C. Patel A. C. S. College, Shirpur.

Place: Shirpur Date:

Dr. Ashwini G. Patil

Internal Examiner

(Project Guide)

M.Sc (Biotechnology) Project Dissertation 2022-23

HEAD

Department of Biotechnology

External Examiner

Page 2

R. C. Patel Arts, Science and Commerce College

Shirpur

Department of Microbiology

CERTIFICATE

This is to certify that dissertation work entitled "GREEN SYNTHESIS OF ZINC NANOPARTICLES USING FUNGI" is the original research work carried out by Ms. Chaudhari Yamini, Mr. Amol Mohite, Mr. Rohit Magare, Mr. Sujay Wadile, Ms. Kajal Chambhar, Ms. Harshal Chambhar under the supervision of Mrs. Amruta Joshi for the partial fulfilment of the degree of "Master of Science in Microbiology "during the academic year 2022-2023 at R. C. Patel, A. S. C. College, Shirpur.

Place: Shirpur

Date:

Ms. Amruta Joshi,

Asst. Professor,

Dept. Of Microbiology,

R.C. Patel, A.S.C.

College, Shirpur.

Dr. R.H. Patil,

Head,

Dept. Of Microbiology,

R.C. Patel, A.S.C.

College, Shirpur.

INTERNAL EXAMINAR

EXTERNAL EXAMINAR

Project List (2022-23) M.Sc-II (Microbiology)

Sr. No.	Name of Students	Project Title	Name of Project Guide
1.	Patil Jayashri Gulabrao		
2.	Kajal Borse Hiralal		
3.	Sonawane Kalyani Ranjit	Production, Partial	Dr. S. P. Patil
4.	Girase Hritik Sattarsing	rase Hritik Sattarsing characterization & Applications	
5.	Rajput Prashant Meghrajsing	of bioactive compounds	
6.	Harankar Sachin Pramod		
7.	Sonawane Sneha Dilip		
8.	Dorik Yogita Shivaji		Dr. R. H. Patil
9.	Jadhav Shital Natthusing	Isolation of Endophytic Fungi	
10.	Mali Neha Ramesh		
11.	Patil Sumit Suresh	from Ethno Medicinal Plants &	
12.	Behere Kiran Anil	their Biological activities	
13.	Ahirrao Parag Kailas		
14.	Khairnar Bhagyashri Kishor		
15.	Rajput Pradnya Rajendra		Dr. M. R. Patil
16.	Smita Deore Jitendra	T 1 C CPI C C	
17.	i VadnereHemakshi Rajesh	Isolation of Plant Growth Promoting Organism & Study	
18.	Chaudhari Kamini Dnyneshwar	of their application as	
19.	Sonawane Akshay Jagatrao	Biofertilizer	
20.	Khairnar Dipika Ravindra	Biolettinzei	
21.	Salunkhe Pushkraj Dilip		
22.	Patil Janhavi Jagdish		Ms. H. D. Pardeshi
23.	Hajare Mangesh Ganesh		
24.	Valvi Kshitija Sakharam	Optimization of Azo dye	
25.	Mali Sonali Ram	decolorization by Microbial	
26.	Pawara Manoj Sakharam	Consortium	
27.	Indrasing Vasave Vansing		
28.	Jadhav Manish Satish		
29.	Chaudhari Yamini Sambhaji		
30.	Magare Rohit Dagulal		
31.	Mohite Amol Tukaram Green Synthesis of Zinc		Ms. A. A. Joshi
32.	Wadile Sujay Prakash	nanoparticles using Fungi	
33.	Sonar Harshal Narendra		
34.	Chambhar Kajal Prakash		



Dr. S. P. Patil

HOD

Dept. of Microbiology & Biotechnology



Project List (2022-23) M.Sc-II (Biotechnology)

Sr. No.	Students Name	Project Title	Name of Project Guide
1.	Gujar Kunal Vijay		
2.	Patil Chetan Motising		
3.	Kulthe Prashant Prabhakar	Isolation & Characterization of Probiotic Yeast from leaves of Magnifera Indica	Dr. L. P. Shirsath
4.	Wagh Sachin Nanabhau		
5.	Mahale Rohit Dattatray		
6.	Pawar Mahesh Ramesh	<u>Magnijera maica</u>	
7.	Jadhav Pankaj sukhlal		
8.	Girase Amol Nathesing		
9.	Deore Tejaswini Sharadchandra	Isolation Identification & material	Dr. M. P. Patil
10.	Patil Nikita Bharat	Isolation, Identification & potential probiotic characterization of fructophilic lactic acid bacteria from	
11.	Talokar Mayuri Roshan		
12.	Nikam Rahul Arvind	fructophilic niches	
13.	Bhamre Mona Ramsing	Isolation of Plant Growth	
14.	Nikam Tejaswini Sunil	Promoting Organism & Study of	
15.	Patil Jayashri Ashok	their application as Biofertilizer	
16.	Pawar Akash Mangilal		
17.	Jadhav Dipak Sukhlal		
18.	Patil Jagdish Yuvraj		
19.	Bornare Ketan Rajesh		
20.	Patil Mayur Sambhaji	Synthesis of Silver nanoparticles using <i>Tridare procumber</i> flower	Dr. A. G. Patil
21.	Ahire Rohit Samadhan		
22.	More Yashashree Shantaram		
23.	Pawar Roshni Yashwant		
24.	Mali Jagruti Arjun		
25.	Girase Dipali Ankush	_	
26.	Patale Kalpesha Vasudev		
27.	Rawal Nikita Rampalsing	Isolation & Screening of	
28.	Patil Akash Tukaram	Phytopathogenic Fungi causing Wilt	Mr. S. V. Yadav
29.	Marathe Mohit Ganesh Disease of Banana Plant		
30.	Bawa Kalyani Nareshgir	_	
31.	Patil Nitin Mahendra		



Dr. S. P. Patil

HOD

Dept. of Microbiology & Biotechnology



Practical Demonstration at Microbilology & Biotechnology Lab



Practical Demonstration at Microbilology & Biotechnology Lab



Practical Demonstration at Microbilology & Biotechnology Lab



Industrial Visits at Jain farm and fresh foods Ltd., Jalgaon



Industrial Visits at Jain farm and fresh foods Ltd., Jalgaon





Participative Learning

Academic Year	Sr. No.	Method used	Content
2019-20	1.	Poster Presentations	B.Sc, M.Sc

Poster Presentations on Disease awareness



PPT presentation



Academic Year	cademic Year Sr. No. Method used		Content
2020-21	1.	Poster Presentations	M. Sc, B.SC

Poster Presentations on disease awareness



Academic Year	Sr. No.	Method used	Content
	1.	Poster Presentations	Disease Awareness
2021-22	2.	Group Discussion	Personal Hygiene

Poster Presentations on Disease awareness



Group Discussion



Academic Year	Sr. No.	Method used	Content
2022-23	1.	Group Discussion	M.sc
2022-23	2.	Poster Presentations	B.Sc, M. Sc

Group Discussion



Poster presentation



PPT Presentation



Panel Discussion -S. Y. B.Sc Syllabus restructuring workshop



Problem Solving

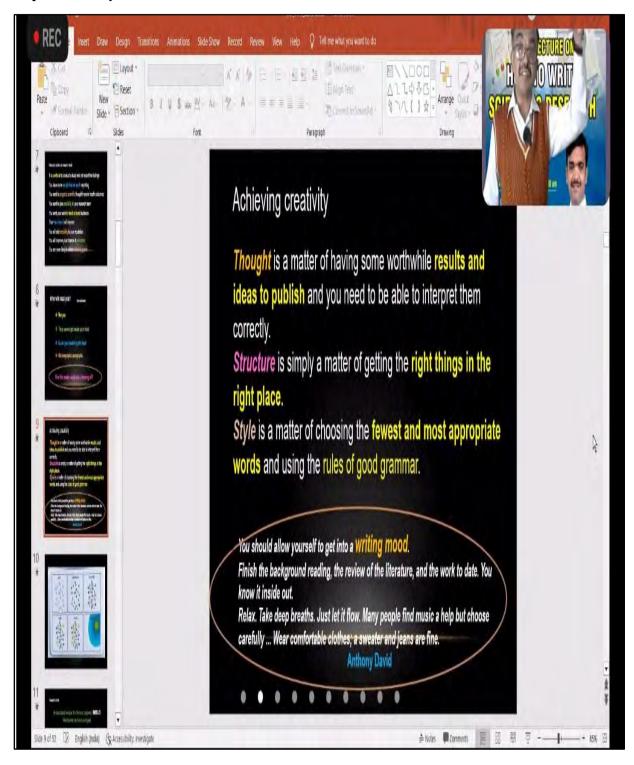
Academic Year	Sr. No.	Method used	Content
2018-19	1.	Expert Talk	Bioinformatics

Expert talk by Prof. Kamlesh Kurankar sir on Bioinformatics



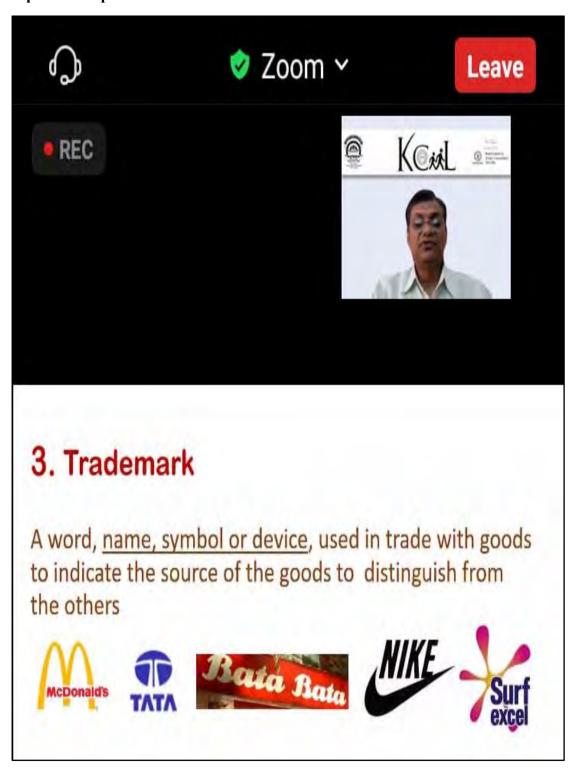
Agadamia	Sr. No.	Method used	Content
Academic Year 2020-21	1.	Expert Talk	How to write a Scientific Research article

Expert Talk by Dr. Ulhas K.Patil sir on How to Write a Scientific Research article



Academic Year	Sr. No.	Method used	Content
2021-22	1.	Expert Talk	Entrepreneurship

Expert talk by Dr. Bhushan L. Chaudhari (KBCNMU, Jalgaon) sir on Entrepreneurship

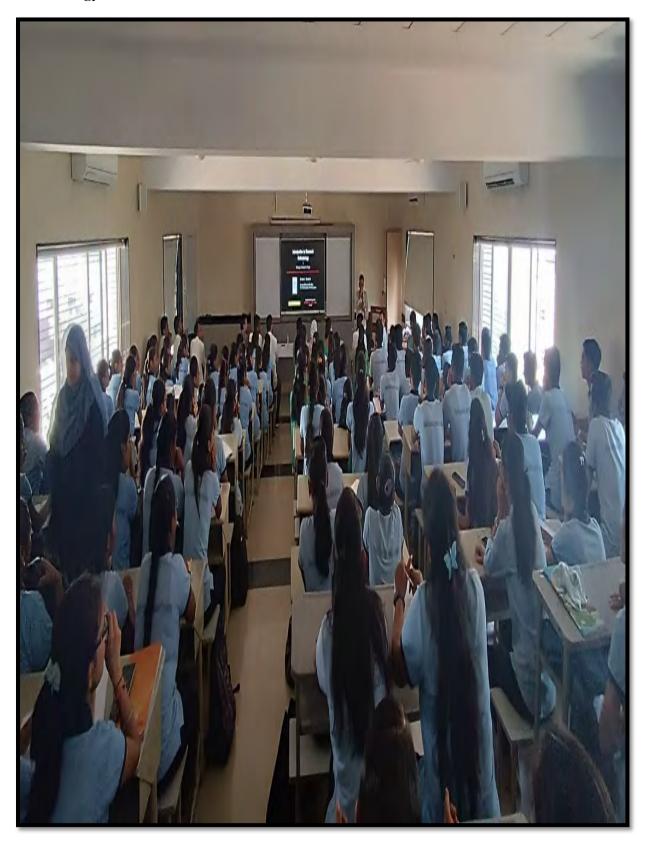


Academic Year	Sr. No.	Method used	Content
2022-23	1.	Expert Talk	Research methodology & IPR

Expert Talk by Dr. Bhushan L. Chaudhari (KBCNMU, Jalgaon) sir on IPR



Expert Talk by Dr. Bhushan L. Chaudhari (KBCNMU, Jalgaon) sir on Research methodology & IPR



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College Shirpur Department of Microbiology & Biotechnology

The Details of ICT Pedagogy used in Teaching Learning Process

For the academic year 2018-19

Sr. No.	Contents	Type of ICTMaterial	Source	Links
1.	T.Y.Bsc (MB)	Audio Lecture	Drive	Zoom Meeting ID 883 3700 2806
2.	M.sc-II (MB) M.sc-II (BT)	Video Lecture	Drive	Zoom Meeting ID 811 7351 2077 832 3796 1058
3.	M.Sc-II(MB) M. Sc-I (MB)	Test using Google form or Testmoz	Drive	https://docs.google.com/forms/d/1-Ioe- K9BEhqo0o9KKD2XMLIbcLgWdZz kaqA71gL4Hw/edit?usp=sharing https://docs.google.com/forms/d/1SRtZ cqmFcs56j_Wb 0cJdoDm3f2Ycyb8p65u5xfD30I0/edit



