



**DEPARTMENT OF MICROBIOLOGY**  
**GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG**



**List of External/In-House Projects and Place of work**

S.N.	Student Name	Title	Place of Project Work
<b>2020-21*</b> <b>(*Only in-house Projects due to Covid-19)</b>			
1	Akansha Humane	The human gut microbiome in health & disease	Govt.V.Y.T.PG.Auto.College Durg
2	Ananya Singh	Overview on particular pathogenesis of severe acute respiratory syndrome (SARS)	Govt.V.Y.T.PG.Auto.College Durg
3	Chhaya Sahu	Phospho-mutant generation in microbial pathogenesis genes (pathogenicity island –a type of genomic island T3SS)	Govt.V.Y.T.PG.Auto.College Durg
4	Deepshikha	Invasive fungal infection in cancer patients	Govt.V.Y.T.PG.Auto.College Durg
5	Deepti Sinha	Diversity study of phosphate solubilizing bacteria	Govt.V.Y.T.PG.Auto.College Durg
6	Dharamraj	Pathogen bacterial diversity in still water bodies national status lake & pond	Govt.V.Y.T.PG.Auto.College Durg
7	Hironadi	Source of bacterial contamination of milk and it's prevention	Govt.V.Y.T.PG.Auto.College Durg
8	Janki	Incidence of tuberculosis & it's cures	Govt.V.Y.T.PG.Auto.College Durg
9	Kavita Mandavi	Dengue virus treatment: An overview	Govt.V.Y.T.PG.Auto.College Durg
10	Kiran Netam	Post-harvest spoilage of tomato and brinjal	Govt.V.Y.T.PG.Auto.College Durg
11	Lilima Dewangan	Pharmacogenomics of anti-cancer drugs: An overview	Govt.V.Y.T.PG.Auto.College Durg
12	Namrata Gautam	Bacterial biofertilizer for crop production & soil fertility	Govt.V.Y.T.PG.Auto.College Durg
13	Payal Sahu	Candida albicans biofilms and its role in human disease	Govt.V.Y.T.PG.Auto.College Durg
14	Priyanka Bhagat	Application of lactic acid bacteria in green biorefineries	Govt.V.Y.T.PG.Auto.College Durg
15	Pramod Kumar Dahare	Antimicrobial activity on human body fluid through produced antibody	Govt.V.Y.T.PG.Auto.College Durg
16	Ritu	Fungal infection –their diagnosis & treatment in transplant recipients.	Govt.V.Y.T.PG.Auto.College Durg
17	Renuka Dewangan	The survival strategies of psychrophiles	Govt.V.Y.T.PG.Auto.College Durg
18	Savita Sudhakar	Production of PHB from Cyanobacteria for production of bioplastic	Govt.V.Y.T.PG.Auto.College Durg
19	Swati Dehari	Predictive modelling of microbial behaviour in food industrial importance	Govt.V.Y.T.PG.Auto.College Durg
20	Suman Singh Gour	Microbial diversity in industrial contamination (pharmaceutical industry)	Govt.V.Y.T.PG.Auto.College Durg
21	Sameeksha Madhariya	Food spoilage –interaction between food spoilage bacteria	Govt.V.Y.T.PG.Auto.College Durg
22	Subhadra Sahu	Epidemiology of HIV incidence with different age & sex	Govt.V.Y.T.PG.Auto.College Durg
23	Yogita Lokhande	Role of helicobacter PYLORI virulence factor	Govt.V.Y.T.PG.Auto.College Durg

24	Y.Yoshi	Role of probiotics in improvement of gut health	Govt.V.Y.T.PG.Auto.College Durg
<b>2019-20</b>			
1	Ashish Yadav	Green synthesis of silver nanoparticles utilizing <i>Bauhinia racemosa</i> leaf extract and evaluate its potential	Pinnacle Biomedical Research Institute Bhopal (M.P.)
2	Jalaj Kumar Sahu	The molecular detection of bacterial isolates from food samples using 16S RNA sequencing	Centre for Molecular Biology & Research Institute Bhopal (M.P.)
3	Krishna Patel	Formation of nano emulsion gel using leaf extract of <i>Caesalpinia pulcherrima</i> and analysis of antimicrobial activity: In-vivo, In-vitro	Pinnacle Biomedical Research Institute Bhopal (M.P.)
4	Manish Kumar	Isolation identification and characterization of phosphate solubilizing bacteria from rhizospheric in the agriculture soil	Govt.V.Y.T.PG.Auto. College Durg
5	Manisha Pathak	Assessment of antifungal activity of <i>Elettaria cardamomum</i> extract using in-vitro model	Central Laboratory Facility Chhattisgarh Council of Science & Technology Raipur (C.G.)
6	Megha Sahu	Antimicrobial sensitivity pattern of microorganism isolates from urine samples causing of urinary tract infection	Department of Microbiology, Pt. Jawaharlal Nehru Medical Hospital Raipur (C.G.)
7	Menka Sahu	Investigation of micro-organism associated with spoilage of onions	Department of Microbiology, Shri Shankaracharya Mahavidyalaya Junwani ,Bhilai (C.G.)
8	Momita Basu	Antibacterial activity of <i>Syzygium aromaticum</i> extract against some human pathogenic bacteria	Central Laboratory Facility Chhattisgarh Council of Science & Technology, Raipur (C.G.)
9	Naureen Khan	Isolation identification and diversity of bacteria from fresh juice sold by vendors of Durg	Department of Microbiology, Swami Shri Swarupanand Saraswati Mahavidyalaya Hudco, Bhilai (C.G.)
10	Parwati Verma	Isolation and screening of cellulose degrading microbes from different region soil sample	Department of Microbiology, Shri Shankaracharya Mahavidyalaya Junwani ,Bhilai (C.G.)
11	Pooja Sahu	Comparative study of biodiversity of algae and fungi in rice fields of gram Ahiwara district Durg (C.G.)	Department Of Microbiology, Swami Shri Swarupanand Saraswati Mahavidyalaya Hudco, Bhilai (C.G.)
12	Ruby Mehta	Isolation identification and characterization of bacteria from refrigerated processed and unprocessed milk product	Govt.V.Y.T.PG.Auto.College Durg (C.G.)
13	Rupesh Kumar Yadav	The isolation and identification of bacterial isolates from water samples using molecular techniques	Center for Molecular Biology & Research Institute Bhopal (M.P.)
14	Snehal Pillai	Cloning of plasmodium falciparum Atg18 genes & <i>Plasmodium berghei</i> AARP for construction of transfection vectors	CSIR Center for Cellular & Molecular Biology Hyderabad Telangana
15	Sonam Singh	Physiological study and diversity of micro-organisms in major ponds of Durg district	Department of Microbiology, Swami Shri Swarupanand Saraswati Mahavidyalaya Hudco ,Bhilai (C.G.)
16	Tileshwari Sahu	To study the bacteriological profile and sensitivity pattern of pathogens isolated from neonatal septicaemia cases	Department of Microbiology, Pt. Jawaharlal Nehru Medical Hospital Raipur (C.G.)
17	Yashoda Prajapati	Photochemical analysis and anti-microbial activity of extracts from medicinal plant <i>Argemone Mexicana</i> linn.	Department of Microbiology, Shri Shankaracharya Mahavidyalaya Junwani ,Bhilai (C.G.)
18	Yogesh Bokde	Comparison between bacterial species of betel leaf chewers & non chewers to evaluate the percentage of antibiotic resistance bacteria in mouth –In-vivo & In-vitro	Pinnacle Biomedical Research Institute Bhopal (M.P.)
<b>2018-19</b>			
1	Dajendra Kumar	Prevalence of all microorganism in various pus sample in tertiary care hospital	Pt. Jawaharlal Nehru Medical College, Raipur

2	Jayshri	Study of phytochemical analysis & antimicrobial activity of medicinal plants.	Bhilai Mahila Mahavidyalaya, Sector-9 Bhilai (C.G.)
3	Kajal Arora	Phytochemical screening, antioxidant activity & antimicrobial susceptibility of <i>Trachyspermum ammi</i> and <i>Trigonella foenum graecum</i> against dental caries causing microbes.	Centre of Microbiology & Biotechnology Research & Training institute Bhopal (M.P.)
4	Manisha Sahu	Citric acid production from agricultural waste by <i>Aspergillus niger</i>	Bhilai Mahila Mahavidyalaya, Sector-9 Bhilai (C.G.)
5	Megha Markam	Antimicrobial activity of anti-dandruff shampoo against different keratinophilic fungi	Govt.V.Y.T.PG. Auto. College Durg, (C.G.)
6	Megha Sahu	A study of antioxidant & antibacterial activity of calendula officinalis leaf	Central laboratory facility Chhattisgarh Council of Science & Technology Raipur (C.G.)
7	Nikki Nage	A study of prevalence of dengue infection in Bastar, Chhattisgarh during June 2018 to august 2018	Late Baliram Kashyap memorial medical college Dimrapura Jagdalpur (C.G.)
8	Pooja	Microbial analysis of milk	Chhattisgarh State Cooperative Dairy Federation Limited Dist.Durg (C.G.)
9	Rakhi Arora	Production of liquid fertilizer (phosphate solubilizing fertilizer) by batch fermentation method & biofilm characterization of bacterial strain isolated from soil rhizosphere	Centre of Microbiology & Biotechnology Research & Training institute Bhopal (M.P.)
10	Ranjana	Isolation, identification & antibiotic pattern of isolated organism from urine sample causing of urinary tract infection	Pt. Jawaharlal Nehru medical College, Raipur (C.G.)
11	Sontee Jangde	Serological & molecular diagnosis of hepatitis in tertiary care hospital	Pt. Jawaharlal Nehru medical College, Raipur (C.G.)
12	Sujata Thakur	To study the prevalence & antibiotic sensitivity pattern of Acinetobacter spp. in various clinical sample	Pt. Jawaharlal Nehru medical College, Raipur (C.G.)
13	Taniya Sahu	In vitro optimization of cellulose enzyme of isolated fungi from waste soil	Bhilai Mahila Mahavidyalaya, Sector-9 Bhilai (C.G.)
14	Yogeshwari	Production of lipase from different fungal strains	Bhilai Mahila Mahavidyalaya, Sector-9 Bhilai (C.G.)
15	Yogita	Antibacterial activity of lantana camara leaf extract against some human pathogenic bacteria	Central Laboratory Facility Chhattisgarh Council of Science & Technology Raipur (C.G.)
16	Priyanshu Sao	Serological and molecular diagnosis of Japanese encephalitis in tertiary care hospital	Late Baliram Kashyap Memorial Medical College Dimrapura Jagdalpur (C.G.)
17	Sunil Kumar	Antioxidant activity of <i>Spinach oleracia</i> plant leaf extract using Fenton reaction	Central Laboratory Facility Chhattisgarh Council of Science & Technology Raipur (C.G.)
18	Vinod Sahu	Bloodstream infection caused by different bacteria, their isolation, identification antibiotic pattern	Pt. Jawaharlal Nehru Medical College Raipur (C.G.)
19	Lalee	Microbial quality assessment of milk product	Chhattisgarh State Cooperative Dairy Federation Limited Dist.Durg (C.G.)
20	Pooja Patankar	Assessment & prediction of water quality of non-reserved ponds of Bhilai –Durg region	Govt.V.Y.T.PG.Auto. College Durg (C.G.)

**2017-18**

1	Chandraprabha	Molecular characterization of rice ( <i>oriyza sativa</i> L.) germplasm accessions	Department of Plant Molecular Biology & Biotechnology Indira Gandhi Agriculture University Raipur (C.G.)
2	Daneshwari	Microbial analysis of milk & milk products	Chhattisgarh State Cooperative Dairy Federation Limited Dist. Durg (C.G.)
3	Geeta thakur	Protein polymerization of UTI infecting bacteria	Centre of Microbiology & Biotechnology Research & Training Institute Bhopal (M.P.)
4	Kumeshwari	Study of phytochemical analysis & antimicrobial activity of some medicinal plants	Bhilai Mahila Mahavidyalaya Sector-9 Bhilai (C.G.)

5	Neha	Evaluation of antibacterial activities of Ricinus communis extract against some human pathogens	Central Laboratory Facility Chhattisgarh Council of Science & Technology Raipur (C.G.)
6	Poonam Deshmukh	Antagonistic activity of probiotics extracellular compound against cystic fibrosis infecting bacteria	Centre of Microbiology & Biotechnology Research & Training Institute Bhopal (M.P.)
7	Priya	DNA fingerprinting of rice ( <i>oryza sativa L.</i> ) germplasm accession using molecular markers	Department of Plant Molecular Biology & Biotechnology Indira Gandhi Agriculture University Raipur (C.G.)
8	Rajeshwari	A study of antioxidant activity of <i>Bauhinia variegata</i> leaf extract using fenton reaction	Central Laboratory Facility Chhattisgarh Council of Science & Technology Raipur (C.G.)
9	Reenu	Genetic Diversity Assessment of Indigenous Rice ( <i>Oryza Sativa L.</i> ) Germplasm Using SSR Marker	Department of Plant Molecular Biology & Biotechnology Indira Gandhi Agriculture University Raipur (C.G.)
10	Richa	Spectrophotometer And Electrophoresis Based Monitoring of Oxidative Stress Markers and Free Radical Processing Agents	Pt. Ravishankar Shukla University Raipur (C.G.)
11	Renuka Sinha	DNA Isolation from Six Different Legume Plant Leaves	Pt. Ravishankar Shukla University Raipur (C.G.)
12	Sateesh Kumar	Studies Of Plastic Degredation by Fungal Spp. Isolated from Polythene Polluted Site Around Durg	Govt.V.Y.T.PG.Auto.College Durg,(C.G)
13	Vaishali Jain	Isolation & Characterization of Heavy Metal Resistant Bacteria from Industrial Waste Water from Durg Bhilai (C.G.)	Bhilai Mahila Mahavidyalaya Sector-9 Bhilai (C.G.)
14	Iqbal Kaushle	Study of Antifungal Effect of Herbal Compound Against Mycotoxin Producing Fungi	Govt.V.Y.T.PG.Auto.College Durg,(C.G)
15	Sakshi Sahu	Microbial Analysis of Fermented Milk Products	Chhattisgarh State Cooperative Dairy Federation Limited Dist. Durg (C.G)
<b>2016-17</b>			
1	Akanksha Chauhan	Assessment and prediction of water quality of non-reserved ponds of Bhilai-Durg region	Bhilai Mahila Mahavidyalaya Sector-9 Bhilai (C.G.)
2	Aarti Borkar	Antibacterial activity of fungus	Govt.V.Y.T.PG.Auto.College Durg,(C.G)
3	Deexa Dewangan	Isolation & identification of microbes from rhizospheric soil & assessment of Cynobacterial toxicity against isolated bacterial & fungal strains	Department of Microbiology, Govt. E.Raghvendra Rao, PG. Science College Bilaspur (C.G)
4	Jharna Gautam	Microbial analysis of milk	Chhattisgarh State Cooperative Dairy Federation Limited Dist.Durg(C.G)
5	Jyoti Shrivastav	Study of microbial growth in fruit juice open & packed from available in market & assessment of its toxicity	Department of Microbiology, Govt. E. Raghvendra Rao, PG. Science College Bilaspur (C.G)
6	Kalpana Kujur	Bacterial contaminants associated with commercial poultry	Shri Shankaracharya Mahavidyalaya Junwani (C.G.)
7	Madhusmita Goud	Degradation of petrol and diesel by bacteria isolated from different garage & petrol pumps	Govt.V.Y.T.PG.Auto.College Durg,(C.G)
8	Neha Rajput	Antifungal activity of allium sativum, allium cepa & aloe vera against pathogenic fungi	Shri Shankaracharya Mahavidyalaya Junwani (C.G.)
9	Poonam Gupta	Isolation characterization and identification of protease producing bacterial soil	Department of Microbiology, Govt. E.Raghvendra Rao,PG. Science College Bilaspur (C.G)
10	Priya Shende	Study of phytochemical analysis & antimicrobial property of some plants of Zingiberaceae family	Bhilai Mahila Mahavidyalaya Sector-9 Bhilai (C.G.)
11	Rahul Prasad Kharwar	Utilization of banana peels for bioethanol production by simultaneous saccharification	Govt.V.Y.T.PG.Auto.College Durg,(C.G)
12	Reshma Begam	Detection of extracellular lipase from bacteria with reference to hydrocarbon polluted soil from Durg – Bhilai area	Govt.V.Y.T.PG.Auto.College Durg,(C.G)

13	Reshmi Verma	Antibacterial activity of fruits & vegetables	Agriculture & Food Engineering Department IIT Kharagpur (W.B.)
14	Ruchi	Production of plant growth hormone (IAA) by soil Rhizoflora uses fermentation method	Centre of Microbiology & Biotechnology Research & Training Institute Bhopal
15	Shabnam Yasmeen	Antibacterial activity of <i>Dhatura alba</i>	Shri Shankaracharya Mahavidyalaya Junwani (C.G.)
16	Shikha Dubey	Study of diversity of indoor aero microflora at different animal shed	Govt.V.Y.T.PG. Auto. College Durg (C.G)
17	Vidya Kawde	Production of biofertilizer by using biofilm forming & phosphate solubilizing bacteria using batch fermentation method	Centre of Microbiology & Biotechnology Research & Training Institute Bhopal (M.P.)