



St. Wilfred's College for Girls

(Affiliated to University of Rajasthan)

Research Projects

A research project is a systematic and rigorous investigation that aims to generate new knowledge, solve problems, or answer research questions. It involves various stages, from topic selection to data analysis and result dissemination. Engaging in a research project provides valuable learning experiences, contributes to the advancement of knowledge, and fosters critical thinking and innovation.

The benefits of engaging in a research project are numerous. It allows researchers to deepen their understanding of a specific field, contribute to the body of knowledge, develop critical thinking and analytical skills, and cultivate a scientific mindset. Research projects also promote innovation, foster interdisciplinary collaboration, and have the potential to impact society, industry, and policy-making.

However, research projects require careful planning, time management, and attention to detail. Researchers must adhere to ethical guidelines, follow research protocols, and maintain rigor throughout the process. It is also important to anticipate and overcome challenges, such as limited resources, unexpected results, or logistical issues.

There are several advantages for students in undertaking research projects. Here are some key benefits:

Skill Development: Research projects allow students to develop and enhance a wide range of valuable skills. They learn to formulate research questions, design studies, collect and analyze data, and interpret findings. Students also develop critical thinking, problem-solving, and decision-making abilities, as they navigate through the complexities of their research projects.

In-depth Knowledge: Engaging in a research project provides students with an opportunity to delve deep into a specific subject or area of interest. Through extensive literature reviews and hands-on research, students gain a comprehensive understanding of the topic. They become subject matter experts, enabling them to contribute to the existing body of knowledge and engage in meaningful discussions within their field.

Personal Growth and Confidence: Undertaking a research project challenges students to step outside their comfort zones and take ownership of their work. It requires independent thinking, self-discipline, and perseverance. As students overcome obstacles and achieve milestones in their research projects, they gain confidence in their abilities and develop a sense of accomplishment. This personal growth extends beyond the research project itself, positively influencing their overall academic and professional journey.

Career Advancement: Research experience is highly valued by employers and academic institutions. It demonstrates a student's ability to conduct independent and analytical work, contributing to their professional profile. Research projects can enhance job prospects, particularly in fields that require strong research and analytical skills. Additionally, students who



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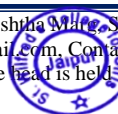
aspire to pursue advanced degrees or academic careers benefit from having research experience, as it strengthens their applications and positions them for success in their chosen field.

Contributions to Knowledge: Research projects offer students the opportunity to contribute to the advancement of knowledge. Through their findings and discoveries, students can make original contributions or address gaps in existing research. This contribution is intellectually stimulating and can have a real impact on the field, inspiring future researchers and shaping the direction of future studies.

Networking and Recognition: Engaging in research projects allows students to connect with professionals, researchers, and experts in their field of study. This networking can open doors to internships, collaborations, and potential mentorship opportunities. Presenting research findings at conferences or publishing in academic journals also provides recognition and visibility within the academic community.

List of Research Project (2022-23)

S. No.	Programme name	Program Code	Student Name	Title of Project Work
1.	M.Sc Final (Botany)	14519	Chahat Choudhary	Urban Ecosystem
2.	M.Sc Final (Botany)	14519	Jyoti	Water Pollution
3.	M.Sc Final (Botany)	14519	Kanchan	Rural Ecosystem
4.	M.Sc Final (Botany)	14519	Kanishka Sharma	Desert Ecosystem
5.	M.Sc Final (Botany)	14519	Meenakshi	Succession in Vegetation of Western Rajasthan
6.	M.Sc Final (Botany)	14519	Komal Meena	Saline arid zone of Rajasthan
7.	M.Sc Final (Botany)	14519	Monika	Forest Ecosystem
8.	M.Sc Final (Botany)	14519	Mahima Jain	Freshwater Ecosystem
9.	M.Sc Final (Botany)	14519	Harshita Saini	Future of Earth
10.	M.Sc Final (Botany)	14519	Rakshita Sharma	Grassland Ecosystem
11.	M.Sc Final (Botany)	14519	Ritika	Air Pollution
12.	M.Sc Final (Botany)	14519	Tanisha Burdak	Solid waste Management
13.	M.Sc Final (Botany)	14519	Yogita Choudhary	Esturian Ecosystem
14.	M.Sc Previous (Botany)	14519	Tannu & Kavita Yadav	Management of Waste Water
15.	M.Sc Previous (Botany)	14519	Vaishnavi Natha & Tanu Kaviya	Evolution of Dravyavati river and future plans
16.	M.Sc Previous (Botany)	14519	Gunjan & Pinki	Management of Solid Waste Management
17.	M.Sc Previous (Botany)	14519	Lata Saini & Urmila Prajapat	Technological progress in Agriculture



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18.	M.Sc Previous (Botany)	14519	Suman Choudhary	Hydroponics
19.	M.Sc Final (Chemistry)	14518	Radha	Determination of Concentration of Unknown $KMnO_4$ Solution by using Lambert- Beer's law in acidic medium, A Spectrophotometric experiment
20.	M.Sc Final (Chemistry)	14518	Urvashi	Determination of formation constant of coloured complex by mixing ferric nitrate & KCNS keeping ionic strength constant: Application of Job's method
21.	M.Sc Final (Chemistry)	14518	Sanju	Kinetics and mechanism of bleaching of malachite green by NaOH solution & calculation of rate constant: Verification of order of reaction
22.	M.Sc Final (Chemistry)	14518	Seema	Synthesise the Benzpinacolone from Benzophenone through multistep mechanism: A Photochemical Rearrangement
23.	M.Sc Final (Chemistry)	14518	Yukta	Prepare Benzanilide from Benzene via multistep mechanism & calculate the yield: An application of mechanism of Backmann's rearrangement
24.	M.Sc Final (Chemistry)	14518	Monika	Calculate yield of methyl red synthesized by using Phthalic anhydride via multistep mechanism of Diazocoupling
25.	M.Sc Final (Chemistry)	14518	Pooja	Extraction of organic compounds from Natural sources- (a) Isolation of caffeine from tea leaves(b) Isolation of Casein from milk (c) Isolation of lactose from milk
26.	M.Sc Final (Chemistry)	14518	Pranshi	Synthesise quinoline from aniline by applying mechanism of Skraup synthesis and also prepare 2-Phenylindole from Phenylhydrazine by using fisher indole synthesis
27.	M.Sc Final (Chemistry)	14518	Kavita	Separation and identification of the sugars in the given mixture of glucose, fructose and sucrose by paper chromatography & determine RF value



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28.	M.Sc Pre (Chemistry)	14518	Rohini	Adsorption of Acetic acid by activated Charcoal, Application of Langmuir Adsorption Isotherm
29.	M.Sc Pre (Chemistry)	14518	Arti	Synthesise the Bibenzalacetone by using Benzal & calculate the yield: An application of Aldol condensation
30.	M.Sc Pre (Chemistry)	14518	Chanchal	Obtain mass percentage of three components Acetic acid- H ₂ O- CHCl ₃ where these are immisible and construct phase diagram: An application of Gibb's phase rule
31.	M.A Final (Geography)	14503	Vijaya Khardiya	Concept of Transport
32.	M.A Final (Geography)	14503	Meenajyoti	Agriculture Geography
33.	M.A Final (Geography)	14503	Samundra Arya	Classification of Soil
34.	M.A Final (Geography)	14503	Sainal Yadav	Urban Geography
35.	M.A Pre (Geography)	14503	Deepika Rani Mahawar	Economic Activity
36.	M.A Pre (Geography)	14503	Deepika Rathore	Energy Resources
37.	M.A Pre (Geography)	14503	Sunidhi	Agriculture & Rural Development
38.	B. A Final (Public Administration)	14503	Heena Natani	Role of Social justice and Empowerment Department in development of SC and ST
39.	B. A Final (Public Administration)	14503	Varsha Kumawat	Problem of female foeticide and role of government (an analytical study with special referance to Rajasthan)
40.	B. A Final (Public Administration)	14503	Suchi Dikshit	Role of NGO in Social Welfare
41.	B. A Final (Public Administration)	14503	Nilanjana	Role of government in Women Empowerment
42.	M.A Pre (Psychology)	14521	Pragya Jain	Stress and Anxiety in Adolescents
43.	M.A Pre (Psychology)	14521	Priya	Factors of OCD
44.	M.A Pre (Psychology)	14521	Anjali Garg	Screen time and academic performance in Adolescents
45.	M.A Pre (Psychology)	14521	Anjali Gupta	Stress and Mental Health in Adolescents
46.	M.A Pre (Psychology)	14521	Shelly Soni	Causes of anxiety in adolescents
47.	M.A Pre (Psychology)	14521	Suhani	Relation between mental health and well being
48.	M.A Pre (Psychology)	14521	Ekta	Autism- Causes and clinical picture
49.	M.A Pre (Psychology)	14521	Mahima	Correlates of Social anxiety in adolescents
50.	M.A Pre (Psychology)	14521	Himani	Post Covid effect on Mental Health





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51.	M.A Pre (Psychology)	14521	Muskan	Depression and Suicidal ideation in adolescents
52.	M.A Pre (Psychology)	14521	Dimple	Binge eating disorder and stress
53.	M.A Pre (Psychology)	14521	Sakshi	Causal factors of Antisocial personality disorder
54.	BCA III Year	1051	Bhagyashree Kasera	Project report on Beauty Parlour Management System
55.	BCA III Year	1051	Muskan Sharma	Project report on Beauty Parlour Management System
56.	BCA III Year	1051	Mahima Sundriyal	Project report on Beauty Parlour Management System
57.	BCA III Year	1051	Anushka Singh	Project report on Beauty Parlour Management System
58.	BCA III Year	1051	Rashmi Meena	Project report on Hospital Management System
59.	BCA III Year	1051	Komal Choudhary	Project report on Hospital Management System
60.	BCA III Year	1051	Richa Jain	Project report on Hospital Management System
61.	BCA III Year	1051	Vijayshree Sharma	Project report on Hospital Management System
62.	BCA III Year	1051	Vanshita Bohra	Project report on Online Course Registration
63.	BCA III Year	1051	Muskan Sadarangani	Project report on Online Course Registration
64.	BCA III Year	1051	Sarita Poonia	Project report on Online Course Registration
65.	BCA III Year	1051	Usha Dharamdasani	Project report on Online Course Registration
66.	M. Sc Final (Physics)	14517	Harshita Choudhary	Phase Shift Oscillator
67.	M. Sc Final (Physics)	14517	Naman	Ringing Bell
68.	M. Sc Final (Physics)	14517	Nidhi Tailor	Smart Screen Projector
69.	M. Sc Final (Physics)	14517	Anushka Sharma	Energy Loss by Charge Particle in Matter
70.	M. Sc Final (Physics)	14517	Tanu Pareek	Synthesis and Characterization of CDS NPs
71.	M. Sc Pre (Physics)	14517	Sunita Kumawat	SCR Characteristic



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72.	M. Sc Previous (Zoology)	14520	Tammana Sanghi	Assisted reproductive technology
73.	M. Sc Previous (Zoology)	14520	Deeksha Saini	Dna structure
74.	M. Sc Previous (Zoology)	14520	Urvashi Tanwar	Transcription in prokaryotes
75.	M. Sc Previous (Zoology)	14520	Preeti Goyal	Excretory system
76.	M. Sc Previous (Zoology)	14520	Inu Godara	Immunoglobulin structure & function
77.	M. Sc Previous (Zoology)	14520	Juhi Agnani	Endocrine system
78.	M. Sc Previous (Zoology)	14520	Mahima Dagar	Excretory system
79.	M. Sc Previous (Zoology)	14520	Neetu Choudhary	Muscles
80.	M. Sc Previous (Zoology)	14520	Neelam Mundotiya	Biochemistry
81.	M. Sc Previous (Zoology)	14520	Neha Choudhary	Filter feeding
82.	M. Sc Previous (Zoology)	14520	Sanskriti Agarwal	Darwinism & concept of evolution
83.	M. Sc Previous (Zoology)	14520	Gunjan Saini	Digestive system
84.	M. Sc Previous (Zoology)	14520	Ritu Saini	Larval form of crustacea
85.	M. Sc Previous (Zoology)	14520	Savita Jangid	DNA replication
86.	M. Sc Previous (Zoology)	14520	Muskan Pathak	Stress biology
87.	M. Sc Previous (Zoology)	14520	Sunaina Choudhary	Surrogasy & ethics
88.	M. Sc Previous (Zoology)	14520	Vaishali Navllani	Female reproductive system
89.	M. Sc Final (Zoology)	14520	Sunita Choudhary	Blood formation
90.	M. Sc Final (Zoology)	14520	Aarti Meena	Terrestrial biomes
91.	M. Sc Final (Zoology)	14520	Laxmi	Flight adaption
92.	M. Sc Final (Zoology)	14520	Charu Paritwani	Homeiopoitic stem cells



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93.	M. Sc Final (Zoology)	14520	Manisha	Food chain & ecological pyramids
94.	M. Sc Final (Zoology)	14520	Megha Sodh	Cell culture techniques
95.	M. Sc Final (Zoology)	14520	Pooja Goswami	Biogeochemical cycle
96.	M. Sc Final (Zoology)	14520	Rakhi Sharma	Molecular structure of gene & chromosome
97.	M. Sc Final (Zoology)	14520	Prachi Sharma	Geological time scale
98.	M. Sc Final (Zoology)	14520	Bhuvneshwari	Bioaccumulation
99.	M. Sc Final (Zoology)	14520	Seema Kumawat	Cleavage & its pattern
100.	M. Sc Final (Zoology)	14520	Sneha Rohilla	Southern blotting
101.	M. Sc Final (Zoology)	14520	Tanisha Sharma	Environmental degradation



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