



St. Wilfred's College for Girls

(Affiliated to University of Rajasthan)

Lab Facility

In modern education, student learning methods have evolved to incorporate a more practical and hands-on approach. Lab facilities play a vital role in facilitating this shift by providing students with immersive learning experiences. This article explores how lab facilities enhance student learning methods, enabling them to grasp concepts more effectively and develop essential skills for their academic and professional journeys.

Application of Theoretical Knowledge: Lab facilities offer students the opportunity to apply theoretical knowledge gained in classrooms to practical scenarios. By engaging in experiments and hands-on activities, students can witness the direct application of concepts, reinforcing their understanding and retention. This active learning approach enhances comprehension and ensures a deeper grasp of subject matter.

Experiential Learning: Lab facilities foster experiential learning, which is a powerful method of education. Through hands-on experiments, students actively participate in the learning process, allowing them to explore and discover knowledge for themselves. This method promotes critical thinking, problem-solving abilities, and decision-making skills as students encounter real-world challenges and devise solutions.

Skill Development: Lab facilities provide a platform for students to develop a wide range of skills that are crucial for their academic and professional growth. By conducting experiments, students enhance their analytical skills, data interpretation abilities, and technical competency. They also acquire valuable transferable skills such as teamwork, communication, time management, and attention to detail.

Practical Understanding: Lab facilities offer students the opportunity to gain practical understanding of concepts that might seem abstract in theory. For instance, in scientific disciplines, students can observe chemical reactions, conduct biological experiments, or analyze physical phenomena firsthand. This hands-on experience helps students bridge the gap between theory and practice, resulting in a more comprehensive understanding of the subject matter.

Collaboration and Teamwork: Lab facilities encourage collaboration and teamwork among students. Working together on experiments and projects fosters effective communication, coordination, and division of responsibilities. Collaborative efforts provide students with diverse perspectives, promoting innovation and enhancing the overall learning experience.

Problem-Solving Skills: Lab facilities are conducive to developing problem-solving skills, which are invaluable in various academic and professional domains. Students encounter challenges during experiments that require them to think critically, analyze data, and devise strategies to overcome obstacles. This process strengthens their problem-solving abilities and nurtures a resilient mindset.



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Career Readiness: Lab facilities equip students with practical skills and knowledge that are directly applicable to their future careers. By engaging in hands-on activities, students gain relevant industry experience, become familiar with specialized equipment, and develop proficiency in using technology specific to their field. This preparation enhances their employability and equips them with the confidence to tackle real-world challenges.

Lab facilities significantly contribute to student learning methods by promoting practical education, experiential learning, and skill development. Through hands-on experiments, students gain a deeper understanding of concepts, enhance their problem-solving abilities, and acquire essential skills for their academic and professional endeavors. By incorporating lab facilities into educational frameworks, institutions empower students to become competent, well-rounded individuals who are ready to excel in their chosen fields.

Physics Lab – The college has two labs and one dark room at first floor of science block for physics for performing experimental and research based studies at both undergraduate and post graduate level. The lab is enriched with all necessary and advanced equipment.

Chemistry Lab- The state-of-the-art Chemistry lab that lets you sat it your curiosity by moving the students in the correct direction. The windows and environmental friendly lighting are especially designed keeping in mind visibility. Our lab with advanced equipments and facilities aid and stimulate our students for them to learn best with practical knowledge. It empowers them with better comprehension and moves their inquisitiveness in the correct direction.

Botany lab- Our College Botany lab is well equipped for undergraduate and postgraduate students to perform various botany practical The laboratory is spacious, well-ventilated and are equipped with the necessary instruments such as Dissecting microscopes, compound microscopes, spectrophotometer, colorimeter, centrifuge machine, heating mantle, hygrometer, autoclave, microtome, respirometer, botanical charts and specimens.

Zoology Lab- The lab work undertaken is to provide practical about Invertebrates, Vertebrates & animal physiology etc. to students. All necessary instruments along with animal dissection apparatuses, compound microscopes are instruments present in lab. Zoology lab is providing basic and advance knowledge about the animals by morphological, physiological and anatomical aspects (by dissection).

Geography Lab- The College has maintained a well-equipped lab which helps the learners to know the exact location of states, countries, ocean, etc. Our lab contains all maps (Physical as well as Political), charts, topographic sheets, globes and slides required for reference.

Psychology Lab- The college has a Psychology Laboratory equipped with various psychological tests and equipments. In this lab we have different tests and tools to assess the intelligence, personality and creativity of the students.



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Where the mind is without fear! Where the head is held high!



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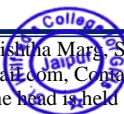
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Computer Lab- The well-furnished computer labs with modern equipped terminals and loaded with high-end software pertaining to the curriculum. The labs are fully air-conditioned with power backup facility and professionally set. The campus is Wi-Fi enabled.

Fashion Technology Lab- The Department of Fashion & Design embraces labs with industrial equipment and tools to provide the technical know-how to the students. Sewing machine, along with textile testing equipment required to analyses the properties of textiles and their applicability in developing different products. As designer work involves use of different surface ornamentation technique therefore a separate lab with dyeing and printing tools is part of the department.

Home Science Lab- Home Science lab of our college is well furnished and equipped with all modern gadgets and appliances to provide students training in various fields of Home science. The home science teacher demonstrates various recipes on bakery, salads, Indian, Chinese, Mexican and Italian cuisines. The students learn the art of cooking and hone their culinary skills by using the gadgets and equipment in the craft period. They also make use of these facilities of the lab in their practice teaching, final skill-in teaching and craft exam.

S. No.	Name of Instruments	Department	Quantity
1.	Electric water bath	Chemistry	2
2.	Distillation Assembly	Chemistry	2
3.	Keep's Apparatus	Chemistry	2
4.	Vacuum pump	Chemistry	1
5.	Electronic Balance	Chemistry	2
6.	Melting Point apparatus	Chemistry	3
7.	pH-meter	Chemistry	2
8.	pH-meter	Botany	2
9.	Gel Electrophoresis	Botany	1
10.	Water Bath	Botany	1
11.	Heating Mentle	Botany	1
12.	Electronic Weighing Machine	Botany	1
13.	Dissecting Microscope	Botany	10
14.	Compound Microscope	Botany	20
15.	Digital pH meter	Zoology	1
16.	Digital pH meter	Zoology	1
17.	Magnetic stirrer with hot plate	Zoology	3
18.	Weighing Balance	Zoology	1
19.	Weighing Balance	Zoology	1
20.	Microscope	Zoology	6
21.	Microscope	Zoology	3
22.	Photoelectric Calorimeter	Zoology	1
23.	Microprocessor Colony Counter	Zoology	1
24.	Centrifuge Machine	Zoology	1
25.	Electric Human Maze Learning with Stylus	Psychology	1
26.	Aluminium Human Maze	Psychology	1
27.	Memory Drum Apparatus	Psychology	1



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28.	Tachistoscope (Fall Type)	Psychology	1
29.	Mirror drawing apparatus	Psychology	1
30.	Depth Perception Apparatus	Psychology	1
31.	Muller-Lyer Illusion Figure	Psychology	1
32.	Aesthesiometer	Psychology	1
33.	Weight Discrimination Box	Psychology	1
34.	Prismatic Compass	Geography	3
35.	Cinometer	Geography	2
36.	Dumpy Level	Geography	2
37.	Theodolite	Geography	1
38.	Vernier Scale	Geography	1
39.	Plane Table	Geography	4
40.	Plane Table Survey Set (Alidade, Compass, Sprit Level, Plumbo Band, Plumbing Fork)	Geography	4
41.	Abney Level	Geography	2
42.	Tripod Stand	Geography	10
43.	Height Measuring Scale	Geography	2
44.	Ranging Rod	Geography	16
45.	Chain (30 meter)	Geography	1
46.	Arrow	Geography	7
47.	Tape	Geography	2
48.	Trough Compass	Geography	1
49.	Globe	Geography	1
50.	Umbrella	Geography	2
51.	Maximum Minimum Thermometer	Geography	1
52.	Microsoft office (Software)	Computer Science	Installed in 34 systems
53.	Tally (Software)	Computer Science	Installed in 5 systems
54.	Turbo C (Software)	Computer Science	Installed in 32 systems
55.	Adobe PDF (Software)	Computer Science	Installed in 25 systems
56.	JAVA (Software)	Computer Science	Installed in 12 systems
57.	C++ (Software)	Computer Science	Installed in 32 systems
58.	Oracle (Software)	Computer Science	Installed in 12 systems
59.	Coral Draw		Installed in 10 systems
60.	Internet		Installed in 30 systems
61.	Microwave	Home Science	1
62.	Refrigerator	Home Science	1
63.	Mixer grinder	Home Science	1



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64.	Electronic sewing machine	Home Science	1
65.	Induction	Home Science	1
66.	Gas	Home Science	1
67.	Iron	Home Science	1



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