

(P.O) Narukara, Malappuram Dt., Kerala 676 122 (Govt.-Aided and Affiliated to University of Calicut) [Nationally reaccredited by NAAC with 'B++' Grade, CGPA 2.77] www.unitywomenscollege.ac.in



Research and Development

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1. Introduction

The institution provides an environment conducive to research by giving suitable infrastructural facilities such as wi-fi-enabled research rooms, internet resources, and reprographic facilities. It has laboratory and library facilities with access to INFLIBNET and DELNET. Each department has its library facility with books and e-resources that are easily accessible. The facilities in the department are adequate to host webinars and invited lectures.

The Departments of Chemistry and English serve as research centres, while the Department of Botany awaits University approval. The centres provide space for scholar-guide interaction, peer discussion and other academic engagements.

The Departments of Botany, Chemistry and Home Science have Innovation and Incubation Centres. The centres provide a space for the faculty and students to nurture their research skills into tangible outputs, like paper publications and entrepreneurial ventures.

The Internet of Things (IoT) Lab at the Department of Computer Science has modern tools like Arduino, Raspberry Pi, and various sensors. It enables students to design and test IoT systems and provides space for hosting workshops, projects, and exhibitions, encouraging innovation through the IoT Club.



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2. Department of Chemistry

The department-wise list of facilities includes:

- Research Labs for experimental work.
- Computational Lab for specialized research.
- Instrumentation room with advanced equipment:
- UV-Visible Spectrophotometer.
- High-sensitive electronic balance (four digits).
- Computers for computational Chemistry experiments.
- pH meter, Polarimeter, and Refractometer.
- Potentiometers and Conductometers.







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3. The Department of English

The facilities in the department include:

- Digital Resource Centre for Research Scholars.
- Wi-Fi-enabled research rooms.
- Document locker facility.
- e-book library at the department.
- Dedicated Research Library.
- Regular research methodology sessions.
- Research forum for academic discussions and collaborations.





4. The Department of Botany

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KORAMBAYIL AHAMED HAJI MEMORIAL UNITY WOMEN'S COLLEGE, MANJERI



- Digital Resource Centre for research scholars.
- UV Spectrophotometer.
- Laminar Airflow Hood.
- Research Microscope with Digital Camera.
- pH Meter.
- Centrifuge.
- Magnetic Stirrer.
- Soxhlet Apparatus.
- Compound Microscope.
- Microwave Oven.
- Refrigerator.
- BOD Incubator.
- Hot Air Oven.





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5. Research Instruments





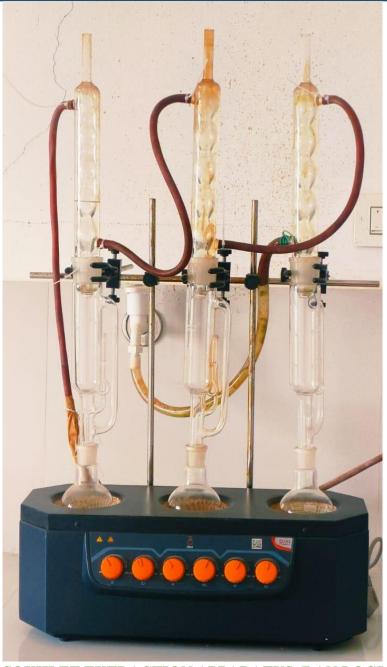


SOXHLET EXTRACTION APPARATUS (FUTURE LAB, THE SCIENTIFIC HUB)



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SOXHLET EXTRACTION APPARATUS (DAN LOGI TECH)







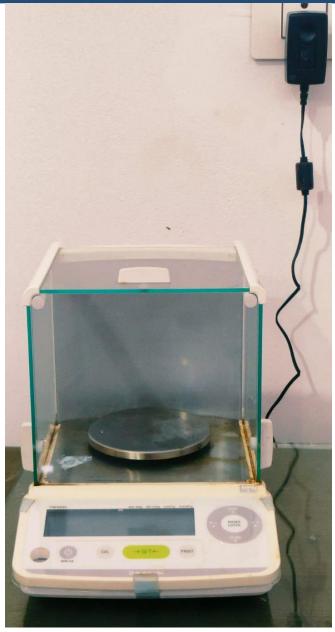
DOUBLE DISTILLATION UNIT (GLASSCO, SL. NO. 2022/WD/020)



WEIGHING BALANCE (TAPSON'S TM)







WEIGHING BALANCE (SHIMADZU)







MICROSCOPE (MAGNUS LED)







MICROSCOPE (CXL MONO LABOMED)







MICROSCOPE (LABOMED VISION 2000)







UV-VIS SPECTROPHOTOMETER, SINGLE BEAM (LABOHOLIC, LH-291)



MICROSCOPE (OLYMBUS CX 21i)







UV-VIS SPECTROPHOTOMETER (ELICO SL 159)



MICROPIPETTES (LAB QUEST BOROSIL)







VORTEX MIXTURE (ROTEK CYCLO)



PH METER (SYSTRONICS INDIA LTD, SL. NO. 23064)







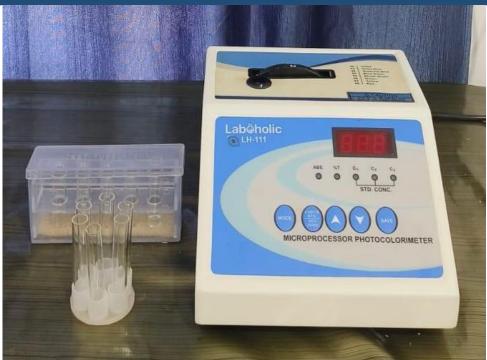
PH METER (EUTECH)



PH METER (ECO TESTR PH1)







COLORIMETER (LABOHOLIC LH-111)



COLORIMETER (LABOHOLIC EYCOLOR)







LABORATORY SHAKER (REMI RS-12)



TABLE TOP CENTRIFUGE (REMI R-4C)



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HIGH SPEED TABLE TOP CENTRIFUGE (KEMI)



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4. Incubation Centres

Department of Botany







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Department of Home Science







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Department of Chemistry





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7. IoT Lab





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PRINCIPAL Korambayil Ahamed Haji Memorial Unity Women's College, Manjeri