



KALASALINGAM
ACADEMY OF RESEARCH AND EDUCATION
(DEEMED TO BE UNIVERSITY)
Under sec. 3 of UGC Act 1956. Accredited by NAAC with "A++" Grade



Anand Nagar, Krishnankoil, Srivilliputtur (Via), Virudhunagar (Dt) - 626126, Tamil Nadu | info@kalasalingam.ac.in | www.kalasalingam.ac.in

THE - Impact Rankings 2026



PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, AND HALT AND REVERSE LAND DEGRADATION AND HALT BIODIVERSITY LOSS

15.2.4 Educational programmers on ecosystems

We offer Sustainability and environmental related courses to B.Tech and M.Tech students. Students are educated on the importance of the ecosystem via workshops and various training programs.

<https://www.kalasalingam.ac.in/wp-content/uploads/2025/11/SDG-Education-Policy.pdf>

S.No	Course Code	Course Name
1	CHY18R4032	Environmental Chemistry
2	CHY17R103	Environmental Science
3	CHY18R5032	Green Chemistry
4	AGR18R265	Introductory Agro-Meteorology and Climate Change
5	AGR18R261	Renewable Energy and Green Technology
6	HOR18R162	Agro-meteorology and Climate Change
7	AGR18R153	Fundamentals of Soil Science
8	AGR18R154	Introduction to Forestry
9	AGR18R102	Rural Sociology and Educational Psychology
10	AGR18R201	Problematic Soils and their Management
11	AGR18R352	Manures, Fertilizers and Soil Fertility Management
12	AGR18R358	Rain fed Agriculture and Watershed Management
13	AGR18R359	Protected Cultivation and Secondary Agriculture
14	AGR18R362	Management of Beneficial Insects
15	AGR18R365	Farm Management, Production and Resource Economics
16	AGR18R155	Fundamentals of Agronomy
17	AGR18R101	Agricultural Heritage
18	NG18R1003	Physical Education
19	AGR18R259	Crop Production Technology – II (Commercial crops)
20	AGR18R260	Production Technology for Commercial Crops, MAP and



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		Landscaping
21	AGR18R202	Farming System and Sustainable Agriculture
22	AGR18R364	Principles of Organic Farming
23	HOR18R151	Fundamentals of Soil Science
24	HOR18R163	Weed and Water Management in Horticultural Crops
25	HOR18R167	Soil Fertility and Nutrient Management
26	HOR18R254	Environmental Studies and Disaster Management
27	HOR18R261	Soil, Water and plant Analysis
28	HOR18R267	Dry land Horticulture
29	HOR18R353	Introductory Agro forestry
30	HOR18R368	Precision Farming and Protected Cultivation
31	HOR18R168	Livestock and Poultry: Production and Management.
32	HOR18R361	Apiculture, Sericulture and Lac culture
33	HOR18R268	Organic Farming
34	AGE18R151	Principles of Soil Science
35	AGE18R152	Surveying and Leveling
36	AGE18R154	Environmental Science and Disaster Management
37	AGE18R253	Soil Mechanics
38	AGE18R260	Watershed Hydrology
39	AGE18R353	Agricultural Structures and Environmental Control
40	AGE18R355	Soil and Water Conservation Engineering
41	AGE18R356	Watershed Planning and Management
42	AGE18R361	Water Harvesting and Soil Conservation Structures
43	AGE18R261	Irrigation Engineering
44	AGE18R262	Sprinkler and Micro Irrigation Systems
45	AGE18R263	Fundamentals of Renewable Energy Sources
46	AGE18R357	Drainage Engineering
47	AGE18R358	Renewable Power Sources
48	AGE18R362	Groundwater, Wells and Pumps
49	AGE18R363	Dairy and Food Engineering
50	AGE18R364	Bio-energy Systems: Design and Applications



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List of Activities Conducted on Environment and Sustainability by Green Army of the university

S.No	Name of the Events Conducted	Date
1	Elocution on Beat Plastic Pollution	24-01-2022
2	Energy Conservation Day	25-01-2022
3	Energy Auditing	21-01-2022
4	Green Garden Maintenance	26-02-2022
5	Global Warming Awareness day	28-02-2022
6	Tree Plantation	21-01-2023
7	Guest Lecture on Carbon Foot Print Calculation	23-01-2023
8	Energy Sources and Conservation	01-02-2023
9	Tree Plantation	08-02-2023
10	Green Building and Green Campus	20-02-2023
11	Not Zero – Net Zero – A Pledge for Carbon Neutral Campus	25-03-2023

EXperiential and Service Learning – EXSEL

This program links the teaching, learning and research activities of the university to the community to address the specific needs of the society. EXSEL operates in two phases namely experiential core *design-build* and experiential core *design-build-operate*. It's mandatory for all the students to engage in SDG/ community (NGO, Industries) associated with real time problem solving. Faculty members are clustered in chosen SDG themes and mentoring multi-disciplinary student teams.

In experiential core *design-build*, teams will understand the problem statement chosen, by the detailed study/ survey on existing product and by developing the conceptual design.

In experiential core *design-build-operate*, teams will develop detailed design of all the components used in the conceptual design and develop the product, which may be deployed to be operational to get first-hand feedback from the end user.

Digital notes: All the members in the team are expected to note their findings and learnings individually in the digital notes.



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Stages of EXSEL

The following stages are involved in the complete cycle of any product

1. Problem Formulation
2. Survey on existing product (Product Analysis)
3. Product Requirement and specifications
4. Conceptual Design
5. Detailed design
6. Prototype/ Product development

Whenever a new problem statements from the identified SDGs

- Climate Change (SDG 13)
- Clean Energy (SDG 7)
- Food Security and Nutrition (SDG 2)
- Sustainable Agriculture (SDG 2)
- Wellbeing for all at all ages (SDG 3)
- Quality Education (SDG4)
- Gender Equality (SDG 5)



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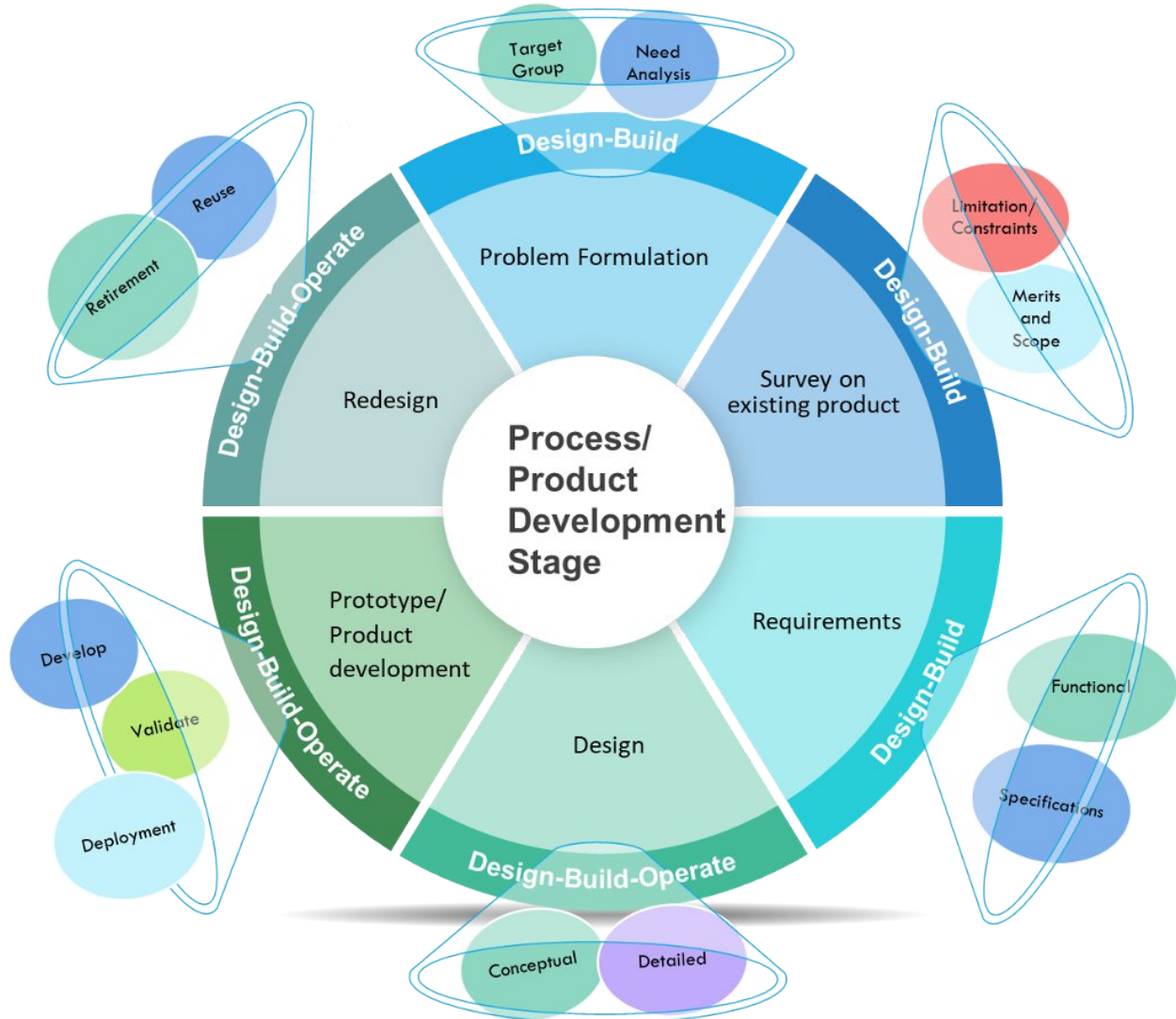
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Different Stages of EXSEL programmes



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M Ms. S. Ponmalar

EXSEL
EXperiential and Service Learning

Experiential Core - Design Build Experience

Theme

Department

Report

1. Food Security and Nutrition
2. Wellbeing for All at all ages
3. Climate Change
4. Clean Energy
5. Sustainable Agriculture
6. Cluster

1. CSE
2. IT
3. ECE
4. EEE
5. Biomedical
6. Biotechnology
7. Food Technology
8. Chemical Engineering
9. Civil Engineering
10. Mechanical Engineering
11. Aeronautical

1. Altered Class Report
2. Student List
3. Faculty List
4. First Review Not Completed List
5. Second Review Not Completed List
6. Internal Marks Not Completed List: [2nd Yr](#); [3rd Yr](#)
7. Final Review Not Completed List: [2nd Yr](#); [3rd Yr](#)
8. Overall Report: [2nd Yr](#); [3rd Yr](#)
9. Log Report

Activate Windows
Go to Settings to activate Windows.

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M Ms. S. Ponmalar

EXSEL
EXperiential and Service Learning

Experiential Core - Design Build Experience

Total Team: 3 Dr.R.Sumathi : [OneNote Link](#) [Alter Class?](#)

Team1 : FS230 => FSPS32 - E - Guru mobile application creation [Rubric Report](#) Co Evaluator: Ms. K. Bavani - CSE [TRI](#) [Community](#)

Review

1	M.Samjeth	9922001106	Biotechnology	OneNote Link	1st (10)★	2nd (12)★	Internal (1)
2	S LOGESHWARAN	9922001108	Biotechnology	OneNote Link	1st (10)★	2nd (12)★	Internal (1)
3	ANKAMREDDI LAKSHMI BHARATHI	99220040434	Computer Science and Engineering	OneNote Link	1st (10)★	2nd (12)★	Internal (1)
4	MANASA A	99220040438	Computer Science and Engineering	OneNote Link	1st (10)★	2nd (18)★	Internal (1)

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Project Demonstration and Awards received by students



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Students Awards in EXSEL projects



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Implementation of University E-governance in Research related to sustainability

- Researgence: (<https://kalasalingam.researgence.com/>)
 - University's publications from all indexed databases
 - Auto-captures all publications of researcher
 - Information on citations, h-index, and impact factor