



**NEWMAN COLLEGE
THODUPUZZHA**

Affiliated to Mahatma Gandhi University
Reaccredited by NAAC with A grade (Cycle 3, CGPA 3.32)

Newman Community based Participatory Research (NCPR)

Best Practice - 01



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OBJECTIVES

To foster the research and innovation ecosystem of the College

To integrate multi disciplinary research to curriculum

To reach excellence in research in tune with the HEI vision and NEP 2020 guidelines

Context

The National Education Policy (NEP) 2020 emphasizes the significance of creating a conducive ecosystem to energize research and innovation in HEIs with the fundamental principal that 'outstanding research is a corequisite for outstanding education and development'. NEP 2020 envisions the development of active research communities across disciplines (Para 10.1) and setting of incubation centres (Para 11.12). The continuous strive of Newman College towards academic excellence finds a reorientation in the light of the new Education policy towards multi and trans disciplinary research with special emphasis on innovation and entrepreneurship.



Newman Community Based Participatory Research

The Practice

01

Establishment of Innovation and entrepreneurship Hub





Establishment of Innovation and Entrepreneurship Hub

- Recognized the need for promotion of student entrepreneurship skills, the college established **Entrepreneurship Development Cell** in 2019 under Department of Industries and Commerce, Govt. of Kerala.
- Established Ministry of Education's **Institution Innovation Council (IIC)** in 2020 to foster innovation ecosystem.
- IIC mentored **72 students** to participate in Reboot Kerala Hackathon 2020 to address the **community issues after 2018 Kerala flood**.
- Facilitated **73 students** to submit innovative proposals to Kerala Development and Innovation Strategic Council Young Innovators Programme (**KDISC YIP**)
- Established **Innovation and Entrepreneurship Development Centres (IEDC)**, a flagship initiative of **Kerala Startup Mission** to promote innovation and entrepreneurship in the educational institutions, in 2022.
- Introduced "Pachakudukka" program- a **student led entrepreneurship initiative** under IEDC to promote **agri- products** of local community
- Established IPR cell and facilitated **2 copyrights** and 1 patent filing

02 Curriculum Enrichment



Curriculum Enrichment

- Curriculum enriched by more than **20** additional courses on research and innovation
- **Teacher training** customised for Newman College on **Research Based Pedagogical Tools**, a flagship training by COSME, IISER, Pune and its practice in classroom
- **Ideation context and idea pitching** from curricular aspects



03

Student research capacity building programmes and Publication opportunities





Student research capacity building programmes and Publication opportunities

- Regionally significant issues were addressed by students through various research capacity building programmes/ schemes like Scheme for Trans-disciplinary Research for India's Developing Economy (STRIDE), DBT Star College scheme and other activities by the institution.
- 100 students got trained in trans-disciplinary research and documentation under STRIDE Scheme
- Science and mathematics undergraduate students got trained through industrial visits and internships under DBT Star College Scheme
- Publication opportunity in book and journals

Students were provided incentives for their research, internships and innovations

04

Research grants/ incentives



Evidence of success

Sl. No.	Initiative/ Activity	Evidence of Success
1.	<u>ED Club</u>	<ul style="list-style-type: none">• Entrepreneurship support given to students.• 6 Skill and entrepreneurship development events organized
2.	<u>Institution Innovation Council (IIC)</u>	<ul style="list-style-type: none">• 3.5 star rating by MoE• One team of 6 students become the winner in Reboot Kerala Hackathon 2020 in theme Energy and received certificate and a cash prize of Rs. 50,000/-• The team got selected for prototype development using IoT by Department of Power, Govt. of Kerala with financial support.• One student in the team, Vishnu Vijay got placed in Wipro• Ideas of students deposited in YUKTI-National Innovation Repository• 7 faculty Innovation Ambassadors trained by MoE
3.	<u>KDISC YIP</u>	<ul style="list-style-type: none">• One team of 5 girl students got shortlisted to State level
4.	<u>IEDC</u>	<ul style="list-style-type: none">• Rs. 2 lakhs financial support by Kerala Start up Mission• Agri- entrepreneurship initiative

5.	<u>Student Research</u> <u>Capacity Building</u>	<ul style="list-style-type: none"> • 100 students conducted community based participative research on issues of regional and global importance (Western Ghats Eco-sensitive zones)
		<ul style="list-style-type: none"> • 80 students published book chapters in edited book.
		<ul style="list-style-type: none"> • 7 students published in SCOPUS indexed journals
		<ul style="list-style-type: none"> • Student presentations in international and national conferences
		<ul style="list-style-type: none"> • Two students discovered Asteroid belt in collaboration with NASA and IUCCA, Pune
		<ul style="list-style-type: none"> • Internship in institutes of National repute like JNCASR, RCC
6.	Research Grants/ incentives	<ul style="list-style-type: none"> • 100 students received incentives for research under STRIDE
		<ul style="list-style-type: none"> • 7 students were fully supported for internship
		<ul style="list-style-type: none"> • 5 students received support for prototype development

Problem Encountered and Resource Required

Problem Encountered	Resource Required
Tight academic schedule with no dedicated hours for research and innovation	Require allocated time in curriculum
Less access to technological hubs	District wise tinkering labs/ innovation hubs



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