



Capital University of Science and Technology

Islamabad Expressway, Kahuta Road, Zone-V, Islamabad

Phone: +92 51 111 555 666, Fax: 92 51 4486705

Email: info@cust.edu.pk, Website: <http://www.cust.edu.pk>

16th Meeting **of the ORIC Steering Committee** **Minutes of the Meeting held on November 11, 2025**

- The 16th meeting of the ORIC Steering Committee (OSC) was held in hybrid mode on Tuesday, November 11, 2025, from 2:30 AM to 3:30 PM in the Workshop Room, B- Block, CUST.
- Dr. Nayyer Masood, Dean ORIC, presided over the meeting in the absence of Chairperson of the ORIC Steering Committee.
- The following internal members were present in the meeting

• Dr. Nayyer Masood	Dean, ORIC	Member
• Dr. Muzaffar Abbas	Dean/Professor, FoP	Member
• Dr. Waseem Abbas	Assistant Professor, ECE	Member
• Dr. Majid Ali	Professor/HoD, CE	Member
• Dr. Nadeem Anjum	Professor/HoD, SE	Member
• Dr. Sohail Ahmad Jan	Associate Professor, BI&BS	Member
• Dr. Sabahat Haqqani	Associate Professor, Psychology	Member
• Dr. Maria Khalid	Deputy Director, ORIC	Secretary

- The following external members attended the meeting online

• Mr. Abdul Qadeer	Director, Berkeley	Member
• Mr. Tahir Mahmood Ch	CEO, Falcon Engineering	Member
• Mr. Bilal Farooq	Founder, Consulting 360	Member
• Mr. Farrukh Mehmood	CEO, 11 Values	Member
• Mr. Raise Naqvi	CEO, EIE	Member
• Mr. M. Asim Ajmal	CEO, TEKROWE Digital	Member

- The following external members attended the meeting by invitation

• Dr. Sahar Fazal	Dean, BI & BS	By invitation
• Dr. Jehan Zeb	Assistant Professor, ECE	By invitation
• Mr. Ibrar Arshad	Senior Lecturer, SE	By invitation
• Mr. Syed Awais Hyder	Principal Lecturer, SE	By invitation
• Dr. Ishfaq Khan	Associate Professor	By invitation
• Mr. Muhammad Umair	Assistant Manager	ORIC
• Ms. Aasia	Assistant Manager	ORIC

- Dr. Noor M. Khan, HoD ECE and Dr. Muhammad Ishfaq Khan, Associate Professor MS could not attend the meeting due to other engagements.
- Students of Dr. Muhammad Irfan and Mr. Syed Awais Haider were also present in the meeting.
- Dr. Nayyar Masood welcomed all the members of the ORIC Steering Committee to its 16th meeting.
- Subsequently, the Committee deliberated upon the following agenda items at length and took the following decisions.



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Item No.	Description	Decision/Action Required
1.	Progress on the Decisions in Previous Meeting Minutes	
	a) Dr. Nayyer referred to the update shared earlier by Prof. Dr. Majid, HoD Civil Engineering, regarding his NRPU project through which a house has already been constructed using 85% recycled plastic. In the previous meeting, the Vice Chancellor had suggested conducting an experiment to assess the feasibility of living in this recycled-plastic house. Dr. Majid further informed that 3 PhD scholars worked on the project, 6 research articles have been published, and 3 additional manuscripts are currently in the pipeline. He added that although the house structure is complete, additional work is still required to make it fully operational specifically plumbing, electricity, and gas installations, which are essential for making the home habitable. For this purpose, PKR 1.2 million in funding is required.	The proposal will be sent to the VC for a final decision
	b) The second item discussed in the previous meeting was the establishment of a Skill Development Centre. It was proposed that the Centre should offer a three-tier skill-based education framework, which may include short trainings (1–5 days), Certificate courses (1–3 months) and diploma programs (2–4 semesters) at both intermediate and postgraduate levels. ORIC is already engaged in conducting various trainings in collaboration with different departments such as CE, SE, ME, and Pharmacy as well as with industrial partners. Dr. Majid mentioned that there are 15–16 PEC-listed trainings that still need to be conducted. these can also be incorporated into the Skill Development Centre's offerings.	Future trainings will be followed
	c) In the previous meeting, Dr. Rizwan-ur-Rahman was asked to confirm whether the extension for the first NRPU report had been approved by HEC.	Unsatisfactory report by HEC
2.	Proposal for Biosciences Lab, Module 1	
	a) The Dean ORIC requested Dr. Sahar Fazal, Dean FHLS, to present her Bio Lab proposal. Dr. Sahar formally presented the proposal, detailing the laboratory facilities required for the project. She explained	Proposal sent to VC for review and decision

that the equipment highlighted in yellow i.e. the FTIR spectrometer and BOD incubator is already available. The equipment highlighted in green, i.e. Rotary Evaporator, will be purchased through R&D funding.

- b) She further explained that the lab development plan has been divided into four phases. For Phase 1 (Foundation and Core Revenue Generation), three key pieces of equipment are required i.e. BOD Incubator, FTIR Spectrometer and Rotary Evaporator. She added that the Rotary Evaporator will be procured using funds from Dr. Rizwan's HEC project, while the remaining two items still need to be arranged.

3. FYPs funded under Cohort 5

- a) Dr. Nayyer invited Mr. Ibrar Arshad, Senior FoC can run Lecturer Department of SE with his two students the conference Ehtisham Anwar and Mudassir Ali titled "BZChair: on BZChair, Next-Generation Conference Management System". and market it if BZChair is a locally developed conference manage- successful ment system offering automated paper submission, reviewer assignment, scheduling, and notifications with a modern UI. Its prototype and core modules are completed, the beta version is live, and the next step is analytics.
- b) Dr. Nayyer invited the second group supervised by Mr. Abdul Qadeer Muhammad Ishfaq Khan titled "Capital Marketing said to contact Agency" aims to provide strategy planning, digital him for marketing marketing, branding, and sustainable marketing services at affordable rates. It targets new startups with a low-cost membership model, offering business development support and marketing services using freelancers and students on task-based contracts. guidance

4. ECE Research Groups & Final Year Projects

Dr. Nayyar invited Dr. Jehan Zeb, Assistant Professor from the ECE Department, on behalf of Dr. Noor, who couldn't join OSC meeting due to engaged in teaching. Dr. Jehan Zeb presented four research groups and their associated FYPs.

a) Microelectronics and Digital Design Research Group

Led by Professor Muhammad Mansoor Ahmed, Dr. Umer Farooq Ahmed, and Engr. Suleman Khan. Several MS and PhD students have already graduated under this group.



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b) Vision and Pattern Recognition Systems Group (VisPRS)

Led by Prof. Dr. Imtiaz Ahmed Taj and Mr. Moin Qasim. Many MS and PhD students have completed their research in this group.

c) Wireless Communication Research Group (AR-WiC)

Group members include Prof. Dr. Noor Muhammad Khan, Dr. Muhammad Awais Shahid, Engr. Umer Maqbool, and Engr. Abdullah Numani. A total of 13 PhD and 49 MS students have been supervised under this group.

d) NextGen AI and Cyber Physical Systems (NAICPHY) Group

This is a newly formed group comprising Dr. Waseem Abbad, Dr. Tauseef Javaid, and Mr. Amir Habib. The group is currently at an early stage of development. However, 8 articles published so far.

e) Wireless, IoT & Network Security Group (WINSec)

This group is also newly formed comprising Dr. Muhammad Riaz and Dr. Jahen Zeb.

4.1 ECE Final Year Projects FYPs Projects

Two FYP projects were presented by the ECE Department.

a) Smart Water Supply Management System

This project was supervised by Dr. Noor Muhammad Khan. Key features of this project show that the system records individual water usage through flow sensors (accessible on any device), automatically maintains the overhead tank level by controlling the pump, and efficiently regulates water consumption in densely populated, water-scarce areas.

Mr. Bilal Farooqi asked for more details from Dr. Noor.

b) Battery Management System (BMS)

This project is supervised by Dr. Umer Farooq Ahmed. Project is about the system continuously monitors the voltage of each battery cell, accurately tracks the State of Charge to prevent over-discharge, and performs cell balancing by redistributing energy



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between cells. Overall, the BMS improves battery lifespan and enhances performance in rechargeable devices, EVs, energy storage systems, and portable electronics.

5. ORIC Activities September-October, 2025

- a) Dr. Nayyer presented ORIC's activities for the period of September to October 2025. He informed the committee that the ORIC Scorecard has been submitted, with the entire ORIC team contributing to its preparation. Last year, a score of 51 was achieved. He emphasized that while obtaining full marks in the scorecard is important, the primary focus of ORIC is on commercialization and industry engagement. Mr. Tahir offered to link ORIC with Dr. Bhawani Shanker for scorecard and ranking improvement
- b) Currently, ORIC is actively reaching out to various industries to strengthen liaison and collaboration. In this regard, ORIC is in communication with OGDCL. Recently, Dr. Arshia Amin (BI & BS) and Dr. M. Irfan (ME Department), along with the ORIC team, visited an OGDCL field site. Dr. Arshia's project involves conducting chemical reactions in the laboratory to extract oil, while Dr. Irfan's project focuses on generating pressure through mechanical means. OGDCL invited them to observe the practical field operations related to oil extraction and pressure generation to better align their academic work with real-world industry practices.
- c) ORIC has also circulated various calls for proposals. As a result of these efforts, 23 NRPU proposals have been submitted this year, reflecting strong engagement from faculty. Additionally, ORIC is actively preparing for the upcoming Erasmus+ call for proposals, even before its official opening, and is reaching out to multiple institutions affiliated with Erasmus+ to explore collaborative opportunities.

Respecting time constraints, the meeting was adjourned with sincere appreciation expressed to all participants for their valuable contributions and active engagement.



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Prepared by

Dr. Maria Khalid

Secretary/Member ORIC Steering Committee

Endorsed by

Dr. Nayyer Masood

Dean ORIC

Approved by

Dr. Muhammad Mansoor Ahmed

Vice Chancellor, CUST

Chairperson, ORIC Steering Committee