Capital University of Science & Technology

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Final Year Projects Funding Evaluation Report

Office of Research, Innovation and Commercialization (ORIC) upon the profound desire of Vice Chancellor initiated Final Year Projects funding for Undergraduate students of Capital University of Science & Technology, Islamabad. The purpose of given activity was financial encouragement of students whose project ideas have particular business and marketing prospective. A total of six Undergraduate projects were to be funded encompassing 30,000 PKR each.

The specific criteria for the said funding along with associated terms and conditions were advertised in first week of March 2019. The event flyer along with application form and cover letter were distributed to all the respective Deans and HoDs to inspire students for the given sponsorship. The flyers were advertised through emails and university notice boards. The specific criteria devised by ORIC was that given project should have:

1. Innovative Idea

2. Specific Business Plan

3. Marketing Potential

4. Sales Tendency

5. Commercialization Aptitude

6. Economical Perspective

The Application forms were available online and also in ORIC office. The deadline for forms submission was 31st March 2019. A total of 14 forms were received from various departments including 7 from EE, 5 from SE and 1 each from ME and MS departments.

Provisional Results: After a systematic assessment particular projects were shortlisted for the funding. The initial scrutiny of applications was done by following faculty members in a meeting held on 22nd April 2019 in ORIC Office at 11A.M.

1. Dr. Aamer Iqbal Bhatti (Dean ORIC)

2. Dr. Muhammad Azhar Iqbal (Associate Professor, CS Department)

3. Dr. Muhammad Faisal Iqbal (Associate Professor EE Department)

4. Dr. Muzaffar Asad (Assistant Professor, MS Department)

The provisional evaluation of application forms was done according to the above mentioned criteria. Initially the top 9 projects were shortlisted in accordance with the list given below.

Sr. No.	Project Title	Supervisor	Students	Department	Average Marks (Out of 30)
1	Design & Fabrication of Automatic Solar Tracker with Panel Cleaning and Cooling System	Dr. Saif-Ur-Rahman	1. Tajamul Baig 2. Arhaam Mubarak 3. Saad Bin Zubair	Mechanical Engineering	24.00
2	Blindroid	Mr. Ibrar Arshad	1. Alina Sarwar 2. Rubeeqa Tahir 3. Usman Mehmood	Software Engineering	23.33
3	AL-FUNOON	Dr. Sajid Bashir	1. Andla Sohail 2. Iqra Majeed	Management Sciences	23.00
4	Prosthetic Hand Using Brain Pulses	Dr. Muhammad Aleem	1. Aashan Javed Khan 2. Usama Mehmood	Computer Science	23.00
5	Navigational Glasses	Dr. Muhammad Aleem	1. Kiran Hameed 2. Mariyam Noor 3. Hammad Sohail	Computer Science	22.33
6	Smart Gloves for Handicapped People	Dr. Muhammad Ashraf	1. Hammad Zafar 2. Kashaf Tauseef 3. Umair Minhas	Electrical Engineering	21.67
7	Off Grid Automatic Egg Incubator	Dr. Muhammad Ashraf	1. Zeeshan Yousaf 2. Atif Ijaz 3. Nauman Zakir	Electrical Engineering	21.00

#	Project	Supervisor	Group Members	Department	Marks
8	Pipe Lining Inspection Robot	Mr. Umar Maqbool	1. Osama Ahmed 2. M. Uzair 3. Ali Abbasi	Electrical Engineering	20.67
9	Smart Receptionists for Hospitals	Dr. Abdul Qadir	1. Siddique Ali 2. Sheryar Tariq 3. Salman Tariq	Software Engineering	20.67
10	Multipurpose Assistance Robot for Elderly People	Mr. Osama Akbar Raja	1. Sheraz Baig 2. Ahmed Mujtaba 3. Shehroze Kayani	Electrical Engineering	20.00
11	Automatic Car Wash Station	Dr. Umer Amir Khan	1. Mehran Waheed 2. Nabeel Ahmad 3. Tauseef Ilyas	Electrical Engineering	19.67
12	Combat and Spy Robot	Mr. Muhammad Tahir	1. M. Zeeshan 2. Abdul Rehman 3. Syeda Kainat	Electrical Engineering	19.33
13	Virtual Reality Based Surveillance System	Mr. Muhammad Naeem	1. M. Hamza 2. Haseeb Ahmed	Electrical Engineering	19.00
14	Reselling Application	Mr. Ibrar Arshad	1. Hamid Mahmood 2. Usama Ahmed 3. Ahmed Tariq	Software Engineering	18.00

Evaluation Committee Members:

Dr. M Azhar Iqbal   Dr. M Faisal Iqbal   Dr. Muzaffar Asad

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It was decided by the committee members that the top 9 projects would be re-evaluated through their project and business plan presentation. The event details along with presentation format were shared with respective students, supervisors and research committee members.

Final Evaluation: The final evaluation of shortlisted projects was done in 8th ORIC Research Committee Meeting held on Thursday 2nd May, 2019 in the Workshop Room, B-Block at 11:00 AM. Prof. Dr. Aamer Iqbal Bhatti, Dean Research & Innovation, chaired the meeting.

The following members attended the meeting.

Dr. Majid Ali	Associate Professor (CE Dept)	Member
Dr. Sahar Fazal	Associate Professor (BI Dept)	Member
Dr. Khawar Naveed	Associate Professor (ME Dept)	Member
Dr. Muzaffar Asad	Assistant Professor (MS Dept)	Member
Dr. Mahboob Alam	Assistant Professor (Pharmacy Dept)	Member

Dr. Umer Amir Khan and Dr. Abdul Rahman Kashif did not attend the meeting. Dr. Muhammad Azhar Iqbal was not present at the event due to personal commitments. Dr. Saif-Ur- Rahman and Mr. Ibrar Arshad were also present at the occasion to witness the presentations of their students.

The students were required to discuss following topics in their presentations and grading was also done considering these points.

1. Generic Introduction including Innovation in the Project

2. Practical Possibility of Project

3. Marketability (Whether End Product can find Place in Market or not)

The students presented their project ideas and business plans before ORIC Research committee. The committee evaluated the presentations according to above mentioned criteria. The main focus was on practical feasibility, business plan and marketability of particular idea. The maximum achievable marks were 10. The final results with detailed evaluation sheet are listed below.

Sr. No.	Project Title	Supervisor	Students	Department	Average Marks (Out of 10)
1	Off Grid Automatic Egg Incubator	Dr. Muhammad Ashraf	1. Zeeshan Yousaf 2. Atif Ijaz 3. Nauman Zakir	Electrical Engineering	8.3
2	Design & Fabrication of Automatic Solar Tracker with Panel Cleaning and Cooling System	Dr. Saif-Ur-Rahman	1. Tajamul Baig 2. Arhaam Mubarak 3. Saad Bin Zubair	Mechanical Engineering	7.5
3	AL-FUNOON	Dr. Sajid Bashir	1. Andla Sohail 2. Iqra Majeed	Management Sciences	6.8

4	Blindroid	Mr. Ibrar Arshad	1. Alina Sarwar 2. Rubeeqa Tahir 3. Usman Mehmood	Software Engineering	6.6
5	Prosthetic Hand Using Brain Pulses	Dr. Muhammad Aleem	1. Aashan Javed Khan 2. Usama Mehmood	Computer Science	6.5
6	Smart Gloves for Handicapped People	Dr. Muhammad Ashraf	1. Hammad Zafar 2. Kashaf Tauseef 3. Umair Minhas	Electrical Engineering	6.3
7	Navigational Glasses	Dr. Muhammad Aleem	1. Kiran Hameed 2. Mariyam Noor 3. Hammad Sohail	Computer Science	6
8	Smart Receptionists for Hospitals	Dr. Abdul Qadir	1. Siddique Ali 2. Sheryar Tariq 3. Salman Tariq	Software Engineering	5.6
9	Pipe Lining Inspection Robot	Mr. Umar Maqbool	1. Osama Ahmed 2. M. Uzair 3. Ali Abbasi	Electrical Engineering	4.4

Evaluation Committee Members:

Dr.Muzaffar Asad   Dr.Khawar Naveed   Dr. Majid Ali   Dr.Sahar Fazal   Dr. Mahboob Alam

Signatures   Signatures   Signatures   Signatures   Signatures

Following the detailed analysis, discussion and assessment of projects, the meeting was adjourned with a vote of thanks the chair and participants.

Prepared by

Muhammad Raheel Anjum
Assistant Director ORIC

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Approved by:

Prof. Aamer Iqbal Bhatti
Dean Research & Innovation

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Distribution.

- Vice Chancellor
- Registrar
- Dr. Muhammad Ashraf
- Dr. Saif-Ur-Rahman
- Dr. Sajid Bashir
- Dr. Muhammad Aleem
- Dr. Abdul Qadir
- Mr. Ibrar Arshad
- Mr. Umar Maqbool
- ORIC Committee Members
- File