



Indira Gandhi Delhi Technical University for Women

Kashmere Gate, Delhi-110006

Minutes of the 7th Meeting of University Research Board

The Seventh meeting of the University Research Board (URB) was held on 23rd March, 2022 at 11:00 AM in the Mini Conference Hall, Admin. Block, IGDTUW. The following members attended the meeting:

1. Prof. (Dr.) Amita Dev, Hon'ble Vice-Chancellor, Chairperson
2. Prof. Ranu Gadi, Dean (R&C), Member
3. Prof. Seeja K.R., HOD(CSE), Member
4. Prof. Nidhi Goel, HOD (ECE), Member
5. Prof. Chhaya Ravi Kant, HOD (AS&H), Member

Prof. N.R. Chauhan could not attend the meeting due to medical reasons. Prof. Manoj Soni, attended the meeting as HOD(MAE) nominee. Prof. Arun Sharma, Dean (Examination Affairs), Prof. Jasdeep Kaur, Dean (Academic Affairs), Prof. Shalini Arora, HOD (MGMT), Ar. Preeti Chauhan, HOD (DAP) and Dr. Richa Yadav, Assistant Prof., Coordinator (R&C) attended the meeting as Special Invitees.

The Dean (R&C), IGDTUW welcomed the Hon'ble Vice Chancellor (Chairperson URB), members of the University Research Board and the Special Invitees to the Seventh meeting of the University Research Board.

Dean (R&C) apprised the Board members about the various Agenda items for consideration and recommendations by the University Research Board (URB):

Item No. 7.1 Opening Remarks by the Dean (Research & Consultancy)

The Dean (R&C), IGDTUW welcomed the Hon'ble Vice Chancellor (Chairperson URB), members of the University Research Board and the Special Invitees to the Seventh meeting of the University Research Board.

She informed the board that although the Academic Year 2021-22 was filled with challenges, but under the able patronage of Hon'ble Vice Chancellor, Dr. Amita Dev many great initiatives were taken. IGDTUW experienced noticeable achievements, rewards and awards, jubilations and celebrations. The visibility of IGDTUW and its perception among the general masses has grown by leaps and bounds.

She further apprised the Board members and Special Invitees about some of the notable achievements, MoUs and collaborations and International Conferences organized in the University during the Academic Year 2021-22:

• Awards and Accolades

- (a) The University has been awarded by "University Excellence Award" by Indian Engineering Congress in Centenary Celebrations on 26th December 2021.
- (b) The University has been awarded with University of the year in India by (FICCI) for Quality Educations-2021 in 1-10 years category.
- (c) In "Times Annual Engineering Institute Survey-2021", the University received the following remarkable ranks and positions.
 - i. Ranked "3rd in the Top Emerging Institutes"- Placement Category
 - ii. Ranked "4th in the Emerging Engineering Institutes"- Research Capability Category.
 - iii. Ranked "7th in Among top Engineering Institutes"- Emerging Category.

- (d) In “**India Today Survey-2021**” the University received the following remarkable ranks and positions:
 - i. Ranked 4th in 5 Technical University with best faculty students Ratio.
 - ii. Ranked 16th in India Best University.
- (e) International **WURI Ranking IGDTUW bagged the 64th position** “as the Innovative Universities for 2021” and also **16th position** in the special category “Entrepreneurial Spirit of WURI ranking, 2021”.
- (f) IGDTUW made India proud by being **ranked in the band of 101-200 in prestigious ‘Times Higher Education World Impact Rankings 2021’** for Sustainable Development Goal (SDG-4) i.e. Quality Education and Sustainable Development Goal (SDG-5) i.e Gender Equality
- (g) IGDTUW awarded as **Best New Local Chapter** among top 100 Local Chapters based on performance in **NPTEL Online Certification courses** for Jan-Dec 2020.

- **MoUs and Collaborations:** In order to build the Research Eco-System and to provide the opportunities to the faculties and students to engage in the real time projects, the University has signed the following collaborations and MoUs:

- (a) MoU signed with IBM India Private Ltd for Academic Growth and Technological advancement.
- (b) MoU signed with Forensic Science Lab (FSL) Government of Delhi for internship/placement offers and arena of research in cyber forensics and cybercrimes and investigations.
- (c) MoU signed with Central Forensic Science Laboratory (FSL) to develop a cooperative and collaborative working relationship and facilitate drawing up to specific projects as per the need.
- (d) MoU has been signed with renowned EATON India Foundation for Pratibha Scholarship.
- (e) Enhancement of Robotics Lab in collaboration with Fluor Daniel under CSR activity.
- (f) MoU signed with OMEGA Seiki Mobility Pvt. Ltd. (OSM): The MoU aim to develop collaboration in alternate energy powered vehicles and other emerging technologies in this space. As a part of this MoU, the OSM will take a lead in developing, installation and setting up a state of art testing and equipments and Electric Vehicle battery charging station in IGDTUW premises to carry out various research and consultancy works.
- (g) MoU signed with James Cook University (JCU), Australia for joint Ph.D Programme where the candidate shall be awarded dual PhD degree after successful completion of the program.
- (h) MoU signed with Nara Institute of Science and Technology (NAIST), Japan: The MoU will provide opportunity to promote academic exchange between NAIST and IGDTUW. It will enhance the collaborative research, conduct of joint symposia, lectures and education.

- **International Conferences organized**

The University has organized the following International Conferences:

- (a) **3rd International Conference on Artificial Intelligence and Speech Technology (AIST-2021)** from 12th and 13th November, 2021 in online mode.
- (b) **2nd International Conference on Advances in Smart Materials and Emerging Technologies (ASMET-2021)** from 20th and 21st December 2021 in online mode.

Item No. 7.2 To consider and approve the faculty members for University Approved Supervisors as per the recommendation of respective DRCs.

The URB deliberated on the cases of the following faculties for their approval as University Approved Supervisor as recommended by Departmental Research Committee (DRC) of their respective Departments. After due deliberations URB approved their case as approved supervisor w.e.f. date of their respective DRC.

[Handwritten Signature]

S. No	Name of Faculty	DRC Details
1	Dr. Arunima Jaiswal, Assistant Prof., CSE	17 th DRC (CSE) 16 th June, 2021
2	Dr. Deepti Chhabra, Assistant Prof., MAE	15 th DRC (MAE) 30 th November 2021

Item No. 7.3 To consider and approve cases for allocation of the Co-Supervisors from Outside University for Research Scholars as per the recommendations of DRCs.

Board members deliberated on the eligibility criteria for allocation of Co-Supervisor as given in Ph.D Regulation R.9.3. After due deliberations, the URB approved the following cases for the allocation of Joint Supervisors from IGDTUW/Outside University.

S. No	Enrolment No.	Name	Dept	FT/PT/JRF	Supervisor	Proposed Co-Supervisor	DRC Details
1	00305012019	Rishika Anand	CSE	JRF	Prof. S.R.N Reddy	Dr. Dinesh Kr. Yadav, Department of Pediatrics, Ram Manohar Lohia Hospital Hospital, New Delhi.	19 th DRC, 16 th December 2021
2	05505022019	Geetanjali Ralh Singh	ECE	FT	Dr. Shobha Sharma	Dr. Cherry Bhargav, Associate Prof., School of Electronics and Electrical Engineering, Lovely Professional University (LPU)	12 th DRC Part-A, 25 th March 2021
3	05405022019	Neeraj	ECE	FT	Dr. Shobha Sharma	Prof. R.S Gupta, Department of Electronics and Communication, Maharaja Agrasen Institute of	12 th DRC Part-A, 25 th March 2021
4	00105032019	Surbhi Khurana	IT	JRF	Dr. (Mrs.) Amita Dev	Prof. Poonam Bansal, Deputy Director and Professor CSE Department, Maharaja Surajmal Institute of Technology, GGSIPU	16 th DRC-I, 31 st August 2021

Item No 7.4 To Approve the Final Registration of the Ph.D Scholars on successful completion of the Ph.D Course Work and approval of the Research Plan by DRC.

Deliberations were done on the approval of the Research Plans of provisionally registered Ph.D students by respective DRCs. The following cases have been approved by URB for Final Registration as candidates in the Ph.D. Programme of IGDTUW. The Final Registration date will be from the date of DRC in which their respective cases of Research Plans were approved.

1. CSE

S. No	Enrolment No.	Name	FT/PT/JRF	Name of the Supervisor/Co-Supervisor	Broad Area	DRC Details
1	05105012019	Divanshi Priya darshi Wangoo	JRF	Prof. S.R.N Reddy	An Integrated Framework For An Intelligent Multimodal and Multisensing Learning Analytics For Cognitive Assessment	17 th DRC, 16 th June 2021
2	05205012019	Divya Joshi	JRF	Dr. Vivekanand Jha	Exploiting Sink Mobility Management for Energy Efficient Wireless Sensor Networks	17 th DRC, 16 th June 2021

	05305012019	Arti Ranjan	PT	Dr. Ravinder M	Development of an Optimized System for Indoor and Outdoor Blurred Images	17 th DRC, 16 th June 2021
4	05405012019	Kiran Malik	FT	Dr. Ravinder M	Designing Imperceptible High Payload Capacity Steganography Framework in Post Quantum Encrypted Domain using Deep Hierarchical Feature Learning	17 th DRC, 16 th June 2021
5	00205012020	Rajni Sharma	JRF	Dr. Ravinder M	Design and Development of Intelligent Multidimensional Image Enhancement Techniques	19 th DRC, 6 th December 2021
6	00305012020	Yashima Hooda	FT	Prof. Devender Kumar Tayal	Personalised Query expansion in Information retrieval using hybrid data sources	19 th DRC, 6 th December 2021
7	00405012020	Kavita Sharma	JRF	Prof. S.R.N Reddy	Design and Development of Integrated RTOS Framework for Customizable IoT Applications	19 th DRC, 6 th December 2021
8	00705012020	Neha Srivastava	PT	Prof. Devender Kumar Tayal	Microarray Data Analysis Using Machine Learning	19 th DRC, 6 th December 2021

2. IT

S. No	Enrolment No.	Name	FT/PT/JRF	Name of the Supervisor/Co-Supervisor	Broad Area	DRC Details
1	05105032019	Shweta Mittal	JRF	Dr. Mohana Ghosh	Security Aspects of Blockchain in Healthcare domain	14 th DRC Part-I, 23 rd February 2021
2	0525032019	Monalisa Panigrahi	JRF	Dr. Sourabh Bharti and Prof. Arun Sharma	Edge-Enabled Federated Learning	15 th DRC, 10 th May 2021
3	00105032020	Surbhi Khurana	JRF	Dr. (Mrs.) Amita Dev and Prof. Poonam Bansal, Deputy Director and Professor CSE Department, Maharaja Surajmal Institute of Technology, GGSIPU	Human Speech Emotion Recognition and Classification using deep Neural Network	16 th DRC Part-II, 4 th September 2021
4	00205032020	Yogita Bansal	JRF	Dr. Niyati Baliyan and Dr. Mohana Ghosh	Analysis Security aspect of blockchain based online social network using machine learning based techniques	16 th DRC Part-II, 4 th September 2021

3. ECE

S. No	Enrolment No.	Name	FT/PT/JRF	Name of the Supervisor/Co-Supervisor	Broad Area	DRC Details
1	00905022019	Isha Malhotra	FT	Dr. Akash Tayal	Dynamics of infectious Diseases- Modeling and Impact	12 th DRC Part-A, 25 th March 2021
2	05105022019	Surbhi Bharti	FT	Prof. Ashwni Kumar	Improvement of Quality of Service Parameters of Memories for Multimedia Applications	12 th DRC Part-A, 25 th March 2021
3	05205022019	Neha Vaish	PT	Prof. Nidhi Goel	Aspect based Sentiment Analysis using Machine Learning	12 th DRC Part-A, 25 th March 2021

Handwritten signature

	05305022019	Anushree	PT	Prof. Jasdeep Kaur	Designing and Performance Improvement of bandgap reference circuit	12 th DRC Part-A, 25 th March 2021
5	05405022019	Neeraj	PT	Dr. Shobha Sharma and Prof. R.S Gupta, Department of Electronics and Communication, Maharaja Agrasen Institute of Technology, GGSIPU, Delhi	Modeling and Simulation Characterization of nanowire (GAA) Field Effect Transistor	12 th DRC Part-A, 25 th March 2021
6	05505022019	Geetanjali Ralh Singh	FT	Dr. Shobha Sharma and Dr. Cherry Bhargav, Associate Prof., School of Electronics and Electrical Engineering, Lovely Professional University (LPU)	Reliability Assessment and health monitoring of electronic components using Machine Learning	12 th DRC Part-A, 25 th March 2021
7	00105022020	Aakanksha Gupta	PT	Prof. Ashwani Kumar	Efficient techniques/methods for lung disease detection and its classification	13 th DRC Part-A, 31 st August 2021
8	00405022020	Neha Kataria Kapoor	PT	Prof. Nidhi Goel	Design and modelling of hybrid renewable energy systems	13 th DRC Part-A, 31 st August 2021
9	00605022020	Jagrati Gupta	PT	Dr. Shobha Sharma	Design and Analysis of efficient and high performance VLSI based data processing systems	13 th DRC Part-A, 31 st August 2021

4. MAE

S. No	Enrolment No.	Name	FT/PT/JRF	Name of the Supervisor/Co-Supervisor	Broad Area	DRC Details
1	00105042018	ShikhaParashar	FT	Dr. V. K. Chawla	Study and analysis of physical properties for kenaf and Coir based hybrid composite	11 th DRC Part-2, 22 nd July 2020
2	00205042018	Tanvi Saxena	FT	Dr. V. K. Chawla	Study and evaluation of physical properties for banana and rubber based hybrid composite	11 th DRC Part-2, 22 nd July 2020
3	05205042019	Kanika Gupta	FT	Prof. N.R. Chauhan	Development and Assessment of Grewia Optiva Reinforced Polyurethane Composite	13 th DRC, 31 st May 2021
4	05105042019	Ekta Yadav	FT	Dr. V.K. Chawla	A Study on Pre-Fault Detection in Rotating Elements by Using Advanced Techniques and their Analysis	13 th DRC 31 st May 2021

Item No. 7.5 To consider and approve Course Work Exemption of candidates as per recommendation of DRCs.

The board deliberated on the Guide Directed Courses done by Ph.D Scholar, Ms. Jaya Singh (00105122021) in 2009 at IIT, Delhi and opined that the courses have passed their shelf life and course work already done by her is outdated. Therefore, the URB advised that the candidate should do two guide directed courses to complete the course work requirements at IGDTUW.

J. Singh

The board further, recommended that in all such cases regarding the transfer of credits of course work, DRC should be vigilant about the time span between completion of earlier course work and when the candidate has applied for Course work exemption at IGDTUW. The span should not be more than five years to consider the transfer of credits from previous Institute and course work exemption to be granted to the candidate. The URB further recommended that R.7.4 in Ph.D Regulation may be revised accordingly as follows:-

Present Regulations R.7.4: In case a student has successfully completed her course work from any other recognized University / institute and wishes to migrate to IGDTUW under an approved supervisor of IGDTUW, she shall be required to clear the Selection Process as prescribed in R3. The transfer of course credits may be allowed, on the recommendation of the DRC after due verification of her Marksheet/ Credits earned.

Revised Regulations R.7.4: In case a student has successfully completed her course work from any other recognized University / institute and wishes to migrate to IGDTUW under an approved supervisor of IGDTUW, she shall be required to clear the Selection Process as prescribed in R3. The transfer of course credits may be allowed, on the recommendation of the DRC after due verification of her Marksheet/ Credits earned. The time span between completion of earlier course work and when the candidate has applied for Course work exemption at IGDTUW should not be more than five years for transfer of course credits.

Item No. 7.6 To approve Extension Period of 01 Year to Ph.D. Programme for Thesis submission on recommendation of the DRC as per R.13.3 in IGDTUW Ph.D Regulations.

The board recommended that the extension Period of 01 Year to Ph.D Programme for Thesis submission on recommendation of the respective DRCs may be granted to those students who were in process of writing thesis during the time of COVID in ASH, IT and CSE Departments.

The Board recommended that any student can seek approval for extension of 3 months for thesis writing from Dean (R&C) with prior permission from Supervisor and HoD.

S No	Enrollment No.	Name	FT/P T/JR F	Deptt.	Name of the Supervisor/Co-Supervisor	Date of Final Registration	Extension Period (Till date)	DRC Details
1	00105122015	Shivangi Anthwal	FT	ASH	Dr. Dinesh Ganotra	1 st August 2016	One year (till 31 st July 2022)	12 th DRC, 30 th March 2021
2	00305122015	Sitakashi Gupta	PT	ASH	Prof. Chhaya Ravi Kant and Dr. Amarjeet Kaur	1 st August 2016	One year (till 31 st July 2022)	12 th DRC, 30 th March 2021
3	00205032014	Ritu	PT	IT	Prof. R.K Singh	1 st August 2015	One year (till 31 st July 2022)	16 th DRC (Part-2) 4 th Sept.2021
4	00405032014	Narendra Mishra	PT	IT	Prof. R.K. Singh & Dr. Sumit Kr. Yadav	1 st August 2016	One year (till 31 st July 2022)	16 th DRC (Part-2) 4 th Sept.2021
5	00205012015	Tripti Sharma	PT	IT	Prof. A.K. Mohapatra & Prof. G.S Tomar	1 st August 2016	One year (till 31 st July 2022)	16 th DRC (Part-2) 4 th Sept.2021
6	Extension of 01 year for Ph.D Thesis submission for Research Scholars of CSE who are in process of writing thesis during COVID							16 th DRC of CSE

Item No. 7.7 To consider and approve Revision in Ph.D. Regulation, R.9.5 regarding counting of seat for a supervisor.

As per the present Ph.D. Regulations R.9.5 "Each student registered under Sole/ Co-Supervision as Full time/Part time shall be counted against one seat for the purpose of filling the prescribed number of

[Handwritten Signature]

scholars registered with a supervisor as in R9.4. The seat under a supervisor shall fall vacant after thesis submission of a candidate”.

Board recommended that above Ph.D. Regulations may be revised as follows:

Revised Ph.D Regulation R. 9.5

- i. A full time/part time student shall be counted against one seat for the purpose of filling the prescribed number of seats registered with a Supervisor.*
- ii. A student under joint supervision shall be counted against half seat for the purpose of filling the prescribed number of seats registered with a Supervisor/Co-supervisor.*
- iii. The seat under a supervisor shall fall vacant after thesis submission of a candidate.*

Item No. 7.8 To consider and approve Guidelines for Reimbursement of Conference Registration Fee to UG, PG and PhD students.

To promote research and development activities, it is proposed to provide reimbursement of conference registration fee to UG, PG and PhD students of IGDTUW for presenting Research Paper in National/International Conferences in the areas of Sciences, Engineering & Technology and Architecture.

The URB deliberated on the Guidelines for Reimbursement of Conference Registration Fee to the UG, PG and PhD Students. After due deliberations, the URB approved the guidelines and recommended the guidelines to be effective from August 2021.

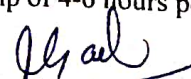
Item No. 7.9 Matter for Information

(i) Guidelines for award of Incentive/Financial Assistance to the students

The Finance Committee in its 11th meeting held on 5th April, 2021 and the Board of Management in its 13th meeting held on 22nd April, 2021 has approved the following schemes/financial assistance/incentives to the students for the University to promote the research eco-system of the University.

- (a) **Financial Assistance to Full Time Ph.D scholars:** In order to attract more female students in STEM research with a low attrition rate, a need has been felt to give financial support in terms of monthly stipend/fellowship to all full-time Research Scholars of the University. The University has implemented the grant of Monthly stipend of Rs. 10,000/- to full time Ph.D Scholars who are not in receipt of any financial support from any source from the Academic Year 2021-22 from University Receipts for a period of five years from the date of admission. The fulltime Ph.D Research Scholars getting the monthly stipend would also assist in Academic/Administrative work.

- (b) **Financial Assistance to Non-GATE qualified students pursuing M.Tech and M.Plan programs:** To attract the good quality students under Non-GATE category, the University has implemented the grant of Financial Assistance of Rs. 7,500/- per month with an upper limit of 10 students per branch pursuing M.Tech/M.Plan. Program from the Academic Year 2021-22 onwards. The financial assistance to Non-GATE students will be offered based on their performance in the 1st semester. The expenditure on the financial assistance will be met from the University Receipts. In addition, the students availing the Non-GATE financial assistance will also contribute teaching to assistantship of 4-6 hours per week.



- (c) **Incentive for publications in SCOPUS and SCI/SCIE Index Journal to UG and PG students of the University:** The research publications in SCOPUS and SCI/SCIE Indexed Journal are instrumental in deciding the NIRF, ARIIA, QS Ranking etc. The good ranking can be achieved only with involvement of UG/PG students in research activities and publish the research paper/patents as testimony towards research excellence. The University has implemented the award of incentive of Rs. 5,000/- and Rs. 10,000/- to UG and PG student for every publication of research article in SCOPUS and SCI/SCIE Indexed Journal respectively to boost the morale of the students and build research ecosystem in the University from the Academic Year 2021-22.

Item No. 7.10 Any Other Agenda item

- (i) **To consider & approve Guidelines for Cotutelle Ph.D Programme (CPP) under Cotutelle agreement signed between IGDTUW/James Cook University (JCU), Australia.**


Cotutelle Agreement has been signed with James Cook University, Australia to enhance the cooperation and joint research activities. Under the agreement, the candidate shall be awarded dual PhD degree after successful completion of the program. The agreement will provide opportunity for doctoral research candidates to have their research supervised jointly with James Cook University and Indira Gandhi Delhi Technical University for Women. This will provide an opportunity for the research scholars to gain international experience and or access to the facilities/environment of James Cook University with the option of Dual Degree.

The guidelines were placed before the URB for Approval. The URB after due deliberation, approved the guidelines for CPP with JCU, Australia.

- (ii) **To encourage interdisciplinary research work at IGDTUW:** Many Faculty members are pursuing their research work in interdisciplinary areas. The Committee deliberated and recommended that in line with NEP-2020, the University should encourage interdisciplinary research work. The Committee further recommended that Faculty Members may be allowed to register the students from other departments apart from their parent Department in the University.

Hon'ble Vice Chancellor (Chairman, URB) encouraged the members to indulge in quality research and continue to put more efforts in bringing consultancy funds and externally funded Research Projects.

The meeting ended with vote of thanks to the chair.


Prof. Ranu Gadi
Dean (R&C)