



**DEPARTMENT OF COMPUTER ENGINEERING**

19.12.2025

Ref No. PhD/2025/DRC/06

Sub: Minutes of Departmental Research Committee (DRC) meeting held on 19.12.2025 at 12:00 P.M. in the Office of Chairperson, Department of Computer Engineering (6<sup>th</sup> DRC Meeting of 2025)

The 6<sup>th</sup> Departmental Research Committee (DRC) meeting of 2025 was held on 19.12.2025 at 12:00 P.M. in the Office of Chairperson, Department of Computer Engineering.

The following members were present during the meeting:

1. Prof. Ashutosh Dixit, Chairman
2. Prof. Naresh Chauhan, Professor (Member)
3. Prof. Komal Kumar Bhatia, Professor (Member)
4. Dr. Poonam, Associate Professor (Member)
5. Dr. Deepika, Associate Professor (Member)
6. Dr. Neelam Duhan, Ph.D coordinator
7. Dr. Payal Gulati, Ph.D Co-coordinator

The following member(s) could not attend the meeting:

1. Prof. Atul Mishra, professor (Member)
2. Dr. Harish Kumar, Associate Professor (Member)

At the outset, the chairperson extended a hearty welcome to all the members of DRC. Thereafter, the agenda items were taken up for discussion and after deliberations, the following decisions were taken:

**Item No. 01: To consider the Bi-Annual Progress Report of Ph.D Scholars registered during 2019-20, 2020-21, 2022-23 and 2023-24 for the assessment periods Jan-June 2025 and April-September 2025.**

The DRC went through the agenda item and approved Bi-Annual Progress Reports of the following Ph.D. Scholars registered in the Computer Engineering department during July-2019, Dec-2019, 2020-21, 2022-23 and 2023-24 for the period from Jan-June 2025 and April-September 2025.

S. No.	Name / Roll No. of Research Scholar	Batch	Title of Research	Name of the Supervisor / co supervisor	Assessment Period
1	Mr. Piyush Gupta (19001902009)	2019-20	Design and Development of an Extensible Risk-Averse Bidding Model for Real Time Bidding Campaigns	Dr. Komal Kumar Bhatia Dr. Neelam Duhan	Apr-Sep 2025
2	Ms. Aayushi Bansal (19001902014)	2019-20	Enhancing the Performance of Learning Models.	Dr. Rewa Sharma Dr. Mamta Kathuria	Apr-Sep 2025

NA



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S. No.	Name / Roll No. of Research Scholar	Batch	Title of Research	Name of the Supervisor / co supervisor	Assessment Period
3	Mr. Sandeep Kumar Vishwakarma (19001902022)	2019-20	Image and Video Dehazing Using Machine Learning	Dr. Anuradha Dr. Deepika	Apr-Sep 2025
4	Ms. Manisha Mudgil (19001902019)	2019-20	Design of Multiple Anomalous Activity Detector in Real Time	Dr. Deepika Dr. Anuradha Pillai	Apr-Sep 2025
5	Ms. Tamanna (20001902010)	2020-21	Intelligent Traffic Monitoring and Control System	Dr. Sapna Gambhir Dr. Preeti Sethi	Apr-Sep 2025
6	Mr. Gagan Thakural (20001902004)	2020-21	Early Detection of Lung Cancer with Low-Dose CT scan using Machine Learning	Dr. Umesh Kumar Dr. Sapna Gambhir	Apr-Sep 2025
7	Ms. Karuna Kaushik (21001902005)	2021-22	Design an Efficient Machine Learning System for Skewed Data Field of Avalanche Forecasting over region of Indian Himalayas	Dr. Rewa Sharma Dr. Amreek Singh	Apr-Sep 2025
8	Mr. Vijay Kumar (21001902011)	2021-22	Prediction and Detection of Chronic Diseases using Machine Learning	Dr. Harish Kumar Dr. Vedpal	Apr-Sep 2025
9	Ms. Archana Das (21001902004)	2021-22	Design of an Intelligent Fine Grained Image Classification System	Dr. Amita Arora Dr. C. K. Nagpal	Apr-Sep 2025
10	Mr. Piyoush Kumar (21001902006)	2021-22	Development of a System for Real Time Detection of Threat Objects	Dr. Amita Arora	Apr-Sep 2025
11	Mr. Yogesh (21001902002)	2021-22	Design of Network Intrusion Detection System using Deep Learning	Dr. Lalit Mohan Goyal	Apr-Sep 2025
12	Ms. Renu Bala (22001902001)	2022-23	A Multimodal Lesion Detection System using Dermatological Images	Dr. Neelam Duhan Dr. Komal Kumar Bhatia	Jan-June 2025
13	Ms. Sangeeta (22001902002)	2022-23	Machine Learning and Game Theory Based Model for Stock Market Predictions	Dr, Shruti Mittal Dr. C.K. Nagpal	Jan-June 2025
14	Ms. Renuka Solanki (23001902002)	2023-24	Adaptive Route Prediction and Recommendation System for efficient Transportation	Dr. Neelam Duhan	Apr-Sep 2025

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Item No. 02: To Inform the DRC about the Ph.D scholars whose progress reports were not accepted by DRC/SAC for the assessment period April 2025 to September, 2025.

Following is the list of the Ph.D Scholars who presented their progress of work for the assessment period April, 2025 to September, 2025 before the DRC & SAC on the scheduled date of presentation, but DRC/SAC found their work was not satisfactory.

S. No.	Name & Roll No. of Research Scholar	Batch	Title of Research	Name of the Supervisor / co supervisor
1	Ms. Shanu Verma (19001902011)	2019-20	Prediction of Thyroid Disease using Machine Learning	Dr. Rashmi Popli Dr. Harish Kumar
2	Ms. Raveena (19001902015)	2019-20	Effective Computing Techniques for big data in cloud environment	Dr. Manvi Dr. Jyoti
3	Ms. Anjali Sardana (20001902001)	2020-21	Development of Computational Model for Toxicity Prediction of Drug Molecule	Dr. Lalit Mohan Goyal

DRC noted the same and recommended the scholars to refine and advance their work and appear before DRC/SAC again in the near future.

Item No. 03: To inform the DRC about the Ph.D scholars who were absent on the date of their bi-annual progress presentation for the assessment period April 2025 to September, 2025.

Following Ph.D scholars did not appear on the date of their Progress presentation for the assessment period April, 2025 to September, 2025.

S. No.	Name & Roll No. of Research Scholar	Batch	Title of Research	Name of the Supervisor / co supervisor
1	Ms. Mamta (19001902006)	2019-20	Design of a Digital Forensic Framework Using Machine Learning	Dr. Deepika Dr. Anuradha
2	Ms. Sushmita Singh (19001902012)	2019-20	Risk analysis and prediction of chronic diseases using Graph Analytics	Dr. Manvi Siwach
3	Ms. Jyoti Nanwal (19001902003)	2019-20	Design of an Integrated Model Using Machine Learning Techniques for Enhancing Agricultural Yield	Dr. Preeti Sethi
4	Ms. Jyotsna Parmar (19001902004)	2019-20	Efficient Multi-Document Text Summarization	Dr. Manjeet Singh

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S. No.	Name & Roll No. of Research Scholar	Batch	Title of Research	Name of the Supervisor / co supervisor
5	Ms. Tamanna Sachdeva (19001902025)	2019-20	Design of Recommendation System for Retail Market	Dr. Lalit Mohan Goyal Dr. Mamta Mittal
6	Mr. Bijoy Chhetri (19001902017)	2019-20	Predictive Analysis of Addiction for Substance Consumption	Dr. Lalit Mohan Goyal, Dr. Mamta Mittal
7	Ms. Mansi Mathur (20001902007)	2020-21	An Integrated Service Model to Support Secure QoS Routing in Opportunistic Networks	Dr. Jyoti, Dr. Poonam
8	Mr. Bhawna Wadhwa (20001902002)	2020-21	Optimization of Security in Big Data	Dr. Parul Tomar
9	Ms. Ashima Garg (18001507002)	2020-21	Design and Development of Smart Surveillance System for Wide Area Monitoring and Event Detection	Dr. Sonali Gupta Dr. Payal Gulati
10	Ms. Shikha Arora (21001902010)	2021-22	Prediction, Detection and Analysis of Polycystic Ovary Syndrome using Machine Learning Algorithms	Dr. Naresh Chauhan Dr. Vedpal
11	Ms. Renu Singh (21001902008)	2021-22	Development of Novel Technique to mitigate Blockchain Vulnerabilities	Dr. Ashlesha Gupta Dr. Poonam
12	Ms. Juhi Pruthi (21001902001)	2021-22	Computational Analysis of the Impact of Electromagnetic Radiations on the ecology of urban and rural areas	Dr. Ashutosh Dixit
13	Ms. Pushpa Bharti Singh (21001902007)	2021-22	Design & Development of Intelligent Intrusion Detection System	Dr. Parul Tomar
14	Ms. Jyoti (23001902001)	2023-24	Intelligent Traffic Management System using Emerging Technologies.	Dr. Parul Gupta

DRC took a serious note of the of the absenteeism and recommended that supervisors must ensure sufficiency of work and scholars must strictly adhere to presentation schedule in the future. The scholars are advised that such absence should not recur in future and consistent progress must be maintained.

Item No. 04: To inform DRC about the Ph.D Admissions vide counselling held on 14<sup>th</sup> November 2025 (Session 2025–2026) in the Department of Computer Engineering

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The DRC noted the admissions of the 16 candidates to the Ph.D Programme in the department of Computer Engineering for Session 2025-2026. The list of candidates who were admitted and deposited the fees is as follows:

S. No	Application No.	Candidate's Name	Father's Name	Gender	Category	Mode of Admission
1	JCBOSE0009173	PRATIMA SHARMA	HEERA LAL SHARMA	F	HOGC	UGC NET
2	JCBOSE0008901	PRIYANKA	GIRRAJ	F	EWS	UGC NET
3	JCBOSE0008958	ANKUSH JOON	KARAMBIR JOON	F	HOGC	UGC NET
4	JCBOSE0008817	ABHILASHA YADAV	SH SUBE RAM YADAV	F	BCB	UGC NET
5	JCBOSE0008853	SHILPA YADAV	RAVINDER SINGH YADAV	F	BCB	UGC NET
6	JCBOSE0008868	PARUL DHINGRA	NARESH KUMAR GULATI	F	HOGC	UGC NET
7	JCBOSE0008747	SONIKA	PAWAN KUMAR	F	SC	UGC NET
8	JCBOSE0008639	ABHIST KUMAR	RAMESH KUMAR	M	AIC/ROHC	University Entrance Test
9	JCBOSE0008841	MEENAKSHI	MUKESH KUMAR	F	HOGC	UGC NET
10	JCBOSE0008921	VARNIKA	VIJAY CHAWLA	F	HOGC	UGC NET
11	JCBOSE0008911	CHANDER SHEKHAR	BUDDHI PRASAD	M	BCA	UGC NET
12	JCBOSE0008658	ONKAR ATWAL	JASBIR SINGH ATWAL	M	SC-D	UGC NET
13	JCBOSE0008779	ANITA	RAMNIVAS	F	HOGC	University Entrance Test
14	JCBOSE0008924	PARVEEN KUMAR	PREM RAJ SINGH	M	AIC/ROHC	University Entrance Test
15	JCBOSE0008953	MAMTA RANI	VIRENDER SINGH	F	SC	University Entrance Test
16	JCBOSE0008676	PRACHI SIWACH	VIJENDER SINGH SIWACH	F	HOGC	University Entrance Test

**Item No. 05: Extension cases of Ph.D Scholars Ms. Manisha Mudgil (19-YMCA-902019), Mr. Bijoy Chhetri (19-YMCA-902017) and Ms. Tamanna Sachdeva (15-YMCAU-543) for one year for Ph.D submission.**

The cases of Ms. Manisha Mudgil (19-YMCA-902019), Mr. Bijoy Chhetri (19-YMCA-902017) and Ms. Tamanna Sachdeva (15-YMCAU-543), Ph.D. Scholars for extension of a period of one year for Ph.D submission were placed before DRC based on the requests submitted by them stating their due reasons vide their applications duly forwarded by respective supervisors. The DRC considered their cases and recommended their extension for one year. DRC suggested to forward their cases to R&D section for further processing.

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**Item No. 06: Recommendation of the DRC on the pre-Ph.D submission of Mr. Sandeep Kumar Vishwakarma (19-YMCA-902022) and Ms. Kumari Deepika (20-YMCA-902006)**

The recommendations of the pre-Ph.D expert committee for pre-Ph.D submission of Ph.D scholars Mr. Sandeep Kumar Vishwakarma (19-YMCA-902022) and Ms. Kumari Deepika (20-YMCA-902006) were placed before the DRC.

S. No.	Name	Ph.D Regn No.	Title of Research	Date of submission	Pre-
1	Mr. Sandeep Kumar Vishwakarma	19-YMCA-902022	Image and Video Dehazing Using Machine Learning	09.12.2025	
2	Ms. Kumari Deepika	20-YMCA-902006	Design of an Optimal Multimodal Biometric Recognition System	16.12.2025	

The DRC endorsed the comments of expert committee and recommended chairperson of the department to send confidentially the list of examiners for Mr. Sandeep Kumar Vishwakarma and Ms. Kumari Deepika to BOS for further approval.

**Item No. 07: Extension case of Mr. Sandeep Kumar Vishwakarma (19-YMCA-902022) for 06 months for thesis documentation.**

The case of Mr. Sandeep Kumar Vishwakarma (19-YMCA-902022)), Ph.D. Scholar for extension of a period of 06 months for Ph.D thesis documentation was placed before the DRC meeting based on the request submitted by him stating his due reasons vide his applications duly forwarded by respective supervisor. The DRC considered his case to be valid keeping in due consideration his Pre-Ph.D submission viva and recommended his extension for 06 months for documentation purposes. DRC suggested to forward his case to R&D section for further processing.

**Item No. 08: To consider and approve the change in topic of Ph.D Scholar Ms. Karuna Kaushik (21-YMCA-902005) admitted in the Year 2021-22**

Ms. Karuna Kaushik (21-YMCA-902005), Ph.D. scholar admitted in the academic session 2021-22, presented her research progress before the DRC on 30.10.2025, wherein while reviewing her work, a minor change in the research title was suggested by DRC. Accordingly, the scholar submitted an application for the revision of her research title, duly forwarded by her supervisor.

Name of the Scholar	Old Title of Research	Suggested New Title of Research	Name of the Supervisor and Co-supervisor
Ms. Karuna Kaushik	Designing an Efficient Machine Learning System for Skewed Data Field of Avalanche Forecasting over the Region of Indian Himalayas	Design of an Efficient Machine Learning based Avalanche Forecasting System for Regions of Indian Himalaya with Skewed Data Fields	Dr. Rewa Dr. Amreek Singh

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The DRC found the change in title justified and recommended to forward the case to R&D Section for issuing updated Registration letter to Ms. Karuna Kaushik.

**Item No. 09: Reconstitution of Student Advisory Committee (SAC) for Ph.D Scholars (Batch 2020 & 2021)**

The existing Student Advisory Committee (SAC) of some of the Ph.D scholars required to be reconstituted as some of the members have superannuated/retired from the University. In view of this, the SAC for these scholars of Batch 2020 and 2021 is proposed to be reconstituted as under:

Sr. No.	Name of the Scholar & Regn No.	Roll No.	Existing SAC Members	Revised SAC Members
1	Ms. Archana Das (21-YMCA-902004)	21001902004	Dr. M.L. Aggarwal, Dr. Manjeet Singh, Dr. C.K. Nagpal, Dr. Amita Arora	Dr. Naresh Chauhan, Dr. Manjeet Singh, Dr. Amita Arora, Dr. C.K. Nagpal
2	Ms. Renu Singh (19-YMCA-502015)	21001902008	Dr. C.K. Nagpal, Dr. Arvind Gupta, Dr. Ashlesha Gupta, Dr. Poonam	Dr. Atul Mishra, Dr. Arvind Gupta, Dr. Ashlesha Gupta, Dr. Poonam
3	Mr. Gagan Thakral (20-YMCA-902004)	20001902004	Dr. C.K. Nagpal, Dr. Neelam Turk, Dr. Sapna Gambhir, Dr. Umesh Kumar	Dr. Komal Kumar Bhatia, Dr. Neelam Turk, Dr. Umesh Kumar Dr. Sapna Gambhir

The DRC members considered and recommended the updated student advisory committee (SAC) of Research Scholars

**Item No. 10: Record of Colloquium Presentation of Ph.D. Scholars before DRC**

The following Ph.D scholars presented their research work in Colloquium Series run by the Department of Computer Engineering in collaboration with R&D section of the University before the faculty members and research scholars of the university as per the details given below:

S. No.	Name	Ph.D Regn No.	Title of Research	Supervisor/ Co-supervisor Details	Date of Colloquium
1	Ms. Sangeeta	22-YMCA-902002	Stock Market Prediction using Game Theory and Machine Learning	Dr. Shruti Mittal, Dr. C.K. Nagpal	28.08.2025
2	Mr. Gagan Thakral	20-YMCA-902004	Early Detection of Lung Cancer with Low Dose CT Scan Images using Machine Learning	Dr. Umesh Kumar, Dr. Sapna Gambhir	28.08.2025
3	Ms. Aayushi Bansal	19-YMCA-902014	Enhancing the Performance of Learning Models	Dr. Rewa Sharma, Dr. Mamta Kathuria	14.11.2025

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S. No.	Name	Ph.D No.	Regn	Title of Research	Supervisor/ Co-supervisor Details	Date of Colloquium
4	Mr. Yogesh	15-YMCAU-436		Design of Network Intrusion Detection System using Deep Learning	Dr. Lalit Mohan Goyal	14.11.2025

DRC noted the same and appreciated the steps taken towards enhancing the research environment in the department. DRC recommended that every research scholar must present his/her work in such colloquium series at least once in a year.

\*\* Meeting ended with a vote of thanks \*\*

Chairperson, Department of Computer Engg.