



# Delhi Technological University

(Formerly Delhi College of Engineering)

Shahbad Daulatpur, Bawana Road, Delhi – 110 042, India

Consequent upon the evaluation of the thesis submitted by the candidate(s) as per details given below for the award of Doctor of Philosophy (Ph.D.) of the Delhi Technological University on the topic as mentioned against his/her name and after his/her viva-voce examinations, he/she/they has/have been found qualified for the Award of Degree of Doctor of Philosophy (Ph.D.).

## Department of Applied Mathematics

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/C o-Supervisor(s)
1.	2K17/PHDAM/07	Ruchika	रुचिका	Applied Mathematics	10th August, 2022	Dr. Vivek Kumar Aggarwal
Title of Ph.D. Thesis		Title in English: Numerical Study of Hyperbolic Conservation Laws Using Fuzzy Flux Limiters		Title in Hindi: न्यूमेरिकल स्टडी ऑफ़ हाइपरबोलिक कंज़र्वेशन लाज़ यूज़िंग फज़ी फ्लक्स लीमीटर्स		

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Dated: 11.08.2022



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## Department of Environmental Engineering

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K16/PHDEN/01	Shailendra Kumar Yadav	शैलेन्द्र कुमार यादव	Environmental Engineering	12 <sup>th</sup> August, 2022	Dr. Rajeev Kumar Mishra  & Prof. B. R. Gurjart Department of Civil Engg., IIT, Roorkee
Title of Ph.D. Thesis		Title in English: Formation, Growth and Quantification of Ultrafine Particles in Selected Microenvironments of Megacity Delhi		Title in Hindi: फार्मेशन, ग्रोथ एंड क्वान्टीफिकेशन ऑफ अल्ट्राफाइन पार्टिकल्स इन सिलेक्टेड माइक्रो एनवीरोमेंट्स ऑफ मेगासिटी दिल्ली		

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## Department of Applied Physics

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/C o- Supervisor(s)
1.	2K16/PHDAP/15	Umang Sharma	उमंग शर्मा	Applied Physics	12 <sup>th</sup> August, 2022	Prof. S.C. Sharma
Title of Ph.D. Thesis		<b>Title in English:</b> <b>Analytical and Numerical Simulation of Nucleation And Growth of Carbon Nanotubes in a Complex Plasma</b>		<b>Title in Hindi:</b> <b>एनालिटिकल एंड न्यूमेरिकल सिमुलेशन ऑफ़ नुक्लियेशन एंड ग्रोथ ऑफ़ कार्बन नैनोट्यूब्स इन ए कॉम्प्लेक्स प्लाज्मा</b>		

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## Department of Mechanical Engineering

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K16/PHDME/10	Manoj Kumar Singh	मनोज कुमार सिंह	Mechanical Engineering	12 <sup>th</sup> August, 2022	Dr. Pravin Kumar & Dr. Saurabh Agrawal
Title of Ph.D. Thesis		Title in English:  Study of Select Issues in the Implementation of Green Manufacturing Practices in Indian SMEs		Title in Hindi:  स्टडी ऑफ़ सेलेक्ट इश्यूज इन द इम्प्लीमेंटेशन ऑफ़ ग्रीन मैनुफैक्चरिंग प्रैक्टिसेज इन इंडियन SMEs		

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## Department of Information Engineering

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K13/PHDIT/01	Heena Hooda	हीना हूडा	Information Technology	12 <sup>th</sup> August, 2022	Prof. O.P. Verma
Title of Ph.D. Thesis		Title in English: Some Studies on Medical Image Processing And Analysis		Title in Hindi: सम स्टडीज ऑन मेडिकल इमेज प्रोसेसिंग एंड एनालिसिस		

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## Department of Applied Chemistry

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K18/PHDAC/05	Deepti Chauhan	दीप्ति चौहान	Applied Chemistry	13 <sup>th</sup> August, 2022	Prof. S.G. Warkar & Prof. Anil Kumar
Title of Ph.D. Thesis		Title in English: Synthesis and Applications of Polymeric Hydrogels as Heavy Metal Ions and other Industrially Important Metal Ion Sensor		Title in Hindi: सिंथेसिस एंड ऐप्लिकेशन्स ऑफ़ पोलिमेरिक हय्द्रोजल्स एस हैवी मेटल आयन्स इतर इंडस्ट्रियलि इम्पोर्टेंट मेटल आयन सेंसर		

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## Department of Mechanical Engineering

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K14/PHDME/02	Shanti Lal Meena	शांति लाल मीणा	Mechanical Engineering	16 <sup>th</sup> August, 2022	Dr. Qasim Murtaza Dr. M.S. Niranjana & Dr. R.S. Walia
Title of Ph.D. Thesis		Title in English: Investigations of Ultrasonic Assisted Friction Stir Welding Process		Title in Hindi: इंवेस्टीगेशंस ऑफ अल्ट्रासोनिक असिस्टेड फ्रिक्शन स्टिर वेल्डिंग प्रोसेस		

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Dated: 16.08.2022



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## Department of Electronics & Communication Engineering

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K17/PHDEC/08	Sumit Kumar	सुमित कुमार	Electronics & Communication Engineering	16 <sup>th</sup> August, 2022	Prof. S. Indu & Dr. Gurjit Singh Walia, Scientist F, DRDO
Title of Ph.D. Thesis		Title in English: Some Security Investigations On Smartphone Platform		Title in Hindi: सम सिक््योरिटी इन्वेस्टीगेशंस ऑन स्मार्टफोन प्लेटफार्म		

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## Department of Mechanical Engineering

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K17/PHDME/21	Sumit Chawla	सुमित चावला	Mechanical Engineering	16 <sup>th</sup> August, 2022	Prof. Ranganath M. Singari
Title of Ph.D. Thesis		Title in English: Prioritization and Efficient Selection Route in Automotive Parts Manufacturing		Title in Hindi: प्रिऑरिटीजेशन एंड एफिफिसिएंट रूट सिलेक्शन इन ऑटोमोटिव पार्ट्स मैनुफैक्चरिंग		

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## Department of Electronics & Communication Engineering

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K11/PHDEC/09	Garima	गरिमा	Electronics & Communication Engineering	16 <sup>th</sup> August, 2022	Prof. Pragati Kumar & Prof. Data Ram Bhaskar
Title of Ph.D. Thesis		Title in English: Realization of Some Analog Signal Processing/ Generation Circuits Employing Operational Transresistance Amplifiers (OTRA)		Title in Hindi: रियलाइजेशन ऑफ़ सम एनालॉग सिग्नल प्रोसेसिंग/ जनरेशन सर्किट्स एम्प्लॉयिंग ऑपरेशनल ट्रांसरेसिस्टैस एम्प्लिफायर्स(OTRA)		

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## Department of Applied Mathematics

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K16/PHDAM/07	Sudhakar Yadav	सुधाकर यादव	Applied Mathematics	16 <sup>th</sup> August, 2022	Dr. Vivek Kumar Aggarwal
Title of Ph.D. Thesis		Title in English:  Mathematical Modeling and Optimal Control to Biological Models		Title in Hindi:  मैथमेटिकल मॉडलिंग एंड ऑप्टीमल कण्ट्रोल टू बायोलॉजिकल मॉडल्स		

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## Department of Mechanical Engineering

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K13/PHDME/04	Deepanjali Nimker	दीपांजली निमकर	Mechanical Engineering	17 <sup>th</sup> August, 2022	Prof. Reeta Wattal
Title of Ph.D. Thesis		Title in English: Recycling of Slag In Submerged ARC Welding		Title in Hindi: रीसाइक्लिंग ऑफ़ स्लैग इन सबमर्ज्ड ARC वेल्डिंग		

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## Department of Applied Mathematics

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K17/PHDAM/05	Shagun Banga	शगुन बांगा	Applied Mathematics	17 <sup>th</sup> August, 2022	Prof. S. Sivaprasad Kumar
Title of Ph.D. Thesis		Title in English: Coefficient Estimates and Special Differential Subordinations of Certain Analytic Functions		Title in Hindi: केफ़ीसिएंट एस्टिमेट्स एंड स्पेशल डिफरेंशियल सबोर्डिनेशन्स ऑफ़ सर्टेन अनलिटिक फंक्शन्स		

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**Department of Mechanical Engineering**

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K17/PHDME/13	Deepak Kumar	दीपक कुमार	Mechanical Engineering	17th August, 2022	Dr. Mohammad Zunaid & Prof. Samsher
Title of Ph.D. Thesis		<b>Title in English:</b> <b>Thermal Performance Analysis of Jet Impingement Heat Sink with Nanofluid</b>		<b>Title in Hindi:</b> <b>थर्मल परफॉरमेंस एनालिसिस ऑफ़ जेट इम्पिन्गमेंट हीट सिंक विथ नैनोफ्लुइड</b>		

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## Department of Information Technology

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K17/PHDIT/01	Swati Sharda	स्वाति शारदा	Information Technology	17 <sup>th</sup> August, 2022	Prof. Kapil Sharma & Prof. Mukhtiar Singh
Title of Ph.D. Thesis		Title in English:  Smart Grid Energy Management Based on IoT and Computational Intelligence		Title in Hindi:  स्मार्ट ग्रिड एनर्जी मैनेजमेंट बेस्ड ऑन IoT एंड कम्प्यूटेशनल इंटेलिजेंस		

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## Department of Electronics & Communication Engineering

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K16/PHDEC/06	Bani Gandhi	बानी गाँधी	Electronics & Comm. Engg.	17 <sup>th</sup> August, 2022	Prof. N.S. Raghava
Title of Ph.D. Thesis		Title in English:  Optimization and Fabrication of Carbon Nanotubes, Graphene and their Hybrid Based ECG Electrodes for Healthcare Applications		Title in Hindi:  ऑप्टिमाइजेशन एंड फेब्रिकेशन ऑफ़ कार्बन नैनोट्यूब्स , ग्राफेन एंड देयर हाइब्रिड बेस्ड ECG इलेक्ट्रोड्स फॉर हेल्थकेयर ऐप्लिकेशन्स		

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## Department of Computer Science & Engineering

S.No.	Roll. No.	Name of Student	Name of Student (In Hindi)	Discipline	Date of Viva – Voce Examination	Name of Supervisor/Co-Supervisor(s)
1.	2K17/PHDCO/02	Anshu Khurana	अंशु खुराना	Computer Science & Engineering	17 <sup>th</sup> August, 2022	Prof. O.P. Verma
Title of Ph.D. Thesis		Title in English: Optimal Text Classification Using Nature Inspired Algorithms		Title in Hindi: ऑप्टीमल टेक्स्ट क्लासिफिकेशन यूजिंग नेचर इंस्पायर्ड अल्गोरिथ्म		

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