

# Yadavindra College of Engineering, Punjabi University, Guru Kashi Campus, Talwandi Sabo

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## FACULTY RESEARCH GUIDANCE

### Ph.D. Awarded Candidates

| S. No. | Supervisor                | Co-Supervisor (If any)   | Name of Candidate        | Thesis Title   | Completion Date | Subject/Department             | Faculty                             |
|--------|---------------------------|--------------------------|--------------------------|--|-----------------|--------------------------------|-------------------------------------|
| 1      | <b>Hazoor Singh Sidhu</b> | Buta Singh Sidhu         | Sukhpal Singh Chatha     | POST TREATMENT OF THERMAL SPRAY COATINGS FOR IMPROVING THEIR CORROSION RESISTANCE AT HIGH TEMPERATURE                                  | 2012            | Mechanical Engineering         | Engg. & Technology                  |
| 2      | <b>Hazoor Singh Sidhu</b> | Buta Singh Sidhu         | Rakesh Bhatia            | DEVELOPMENT OF EROSION CORROSION RESISTANT HVOF SPRAYED CR3 C2-NICR COATINGS FOR BOILER TUBE STEELS OPERATING AT ELEVATED TEMPERATURES | 12-11-2013      | Mechanical Engineering         | Engg. & Technology                  |
| 3      | <b>Hazoor Singh Sidhu</b> | Harpreet Singh           | Tejinder Pal Singh Sarao | IN-VITRO CORROSION STUDIES OF BIOACTIVE COATINGS ON SOME BIOMEDICAL IMPLANT MATERIALS  | 12-11-2013      | Mechanical Engineering         | Engg. & Technology                  |
| 4      | <b>Hazoor Singh Sidhu</b> | Buta Singh Sidhu         | Gurpreet Singh           | FABRICATION & CHARACTERIZATION IN VITRO OF THERMAL SPRAYED HA/SiO <sub>2</sub> /CaP COATINGS FOR BIOMEDICAL APPLICATIONS               | 07-03-2014      | Mechanical Engineering         | Engg. & Technology                  |
| 5      | <b>Hazoor Singh Sidhu</b> | <b>Rakesh Bhatia</b>     | Khushdeep Goyal          | HIGH TEMPERATURE DEGRADATION BEHAVIOUR OF THERMAL SPRAYED CARBON NANOTUBES REINFORCED COATINGS ON BOILER STEEL                         | 22-01-2019      | Mechanical Engineering         | Engg. & Technology                  |
| 6      | Niraj Bala                | <b>Gagandeep Kaushal</b> | Sachpreet Singh          | ROLE OF SURFACE PREPARATION OF MEGNESIUM BASED ALLOYS ON HVOF SPRAYED COATINGS AND THEIR TRIBOLOGICAL STUDIES                          | 28-05-2019      | Mechanical Engineering         | Engg. & Technology (PTU, Jalandhar) |
| 7      | <b>Jagtar Singh</b>       | Harminder Singh Bindra   | Swati                    | DESIGN AND IMPLEMENTATION OF SECURITY CONTEXT AWARE ROUTING PROTOCOL FOR DELAY TOLERANT NETWORKS                                       | 20-12-2019      | Computer Science & Engineering | Engg. & Technology                  |

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|---|--------------------|--------------------------|-----------------|---|------------|------------------------|-------------------------------------|
| 8 | Deepak Kumar Goyal | <b>Gagandeep Kaushal</b> | Mithlesh Sharma | DEVELOPMENT OF HVOF-SPRAYED AND ADHESIVE COATINGS FOR SLURRY EROSION RESISTANCE | 25-04-2020 | Mechanical Engineering | Engg. & Technology (PTU, Jalandhar) |
|---|--------------------|--------------------------|-----------------|---|------------|------------------------|-------------------------------------|

### Ph.D. Registered Candidates

| S. No. | Supervisor                  | Co-Supervisor (If any)      | Name of Candidate   | Thesis Title  | Registration Date | Subject/Department     | Faculty            |
|--------|-----------------------------|-----------------------------|---------------------|---|-------------------|------------------------|--------------------|
| 1      | <b>Hazoor Singh Sidhu</b>   | Gurpreet Singh              | Kulbir Singh Sandhu | SURFACE MODIFICATIONS OF NON-FERROUS ALLOYS WITH FRICTION STIR PROCESSING   | 29-08-2014        | Mechanical Engineering | Engg. & Technology |
| 2      | <b>Sukhpal Singh Chatha</b> | <b>Hazoor Singh Sidhu</b>   | Jarnail Singh       | CHARACTERIZATION AND CORROSION BEHAVIOR OF THERMAL SPRAYED BIOCERAMIC COATINGS DEPOSITED ON TITANIUM BASED ALLOY  | 27-04-2015        | Mechanical Engineering | Engg. & Technology |
| 3      | <b>Sukhpal Singh Chatha</b> | <b>Hazoor Singh Sidhu</b>   | Roshan Lal Viridi   | PERFORMANCE EVALUATION OF NANOFLUIDS IN MINIMUM QUANTITY LUBRICATION GRINDING   | 27-04-2015        | Mechanical Engineering | Engg. & Technology |
| 4      | <b>Rakesh Bhatia</b>        | <b>Hazoor Singh Sidhu</b>   | Sandeep Kumar       | EROSION-CORROSION BEHAVIOUR OF THERMAL SPRAYED CARBON NANOTUBES REINFORCED COATINGS ON BOILER TUBE STEEL  | 22-08-2016        | Mechanical Engineering | Engg. & Technology |
| 5      | <b>Hazoor Singh Sidhu</b>   | <b>Sukhpal Singh Chatha</b> | Lakhveer Singh      | BEHAVIOR OF NICKEL-CHROMIUM ALLOY BASED THERMALLY SPRAYED COATING FOR HIGH TEMPERATURE AGGRESSIVE ENVIRONMENT   | 30-08-2016        | Mechanical Engineering | Engg. & Technology |
| 6      | <b>Hazoor Singh Sidhu</b>   | <b>Sukhpal Singh Chatha</b> | Amrit Pal           | PERFORMANCE OF MINIMUM QUANTITY LUBRICATION TECHNIQUE IN DRILLING OF STAINLESS STEEL  | 30-08-2016        | Mechanical Engineering | Engg. & Technology |
| 7      | Gurpreet Singh              | <b>Hazoor Singh Sidhu</b>   | Puneet Bansal       | INVESTIGATION OF IN-VITRO CORROSION BEHAVIOUR OF METALLIC IMPLANTS PLASMA SPRAYED WITH HYDROXYAPATITE/ HYDROXYAPATITE-CARBON NANO TUBES/ HYDROXYAPATITE-STRONTIUM/ HYDROXYAPATITE-ZINE OXIDE COATINGS | 30-08-2016        | Mechanical Engineering | Engg. & Technology |

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|----|-----------------------------|---------------------------|--------------------|---|------------|------------------------|--------------------|
| 8  | Gurpreet Singh              | <b>Hazoor Singh Sidhu</b> | Ripandeep Singh    | INVESTIGATION OF HOT CORROSION BEHAVIOUR OF NICKEL BASED SUPERALLOYS COATED WITH NiCr, ROCURE 625 AND INCONEL 625 COATINGS IN SIMULATED AND ACTUAL INCINERATOR ENVIRONMENTS | 30-08-2016 | Mechanical Engineering | Engg. & Technology |
| 9  | <b>Hazoor Singh Sidhu</b>   | Buta Singh Sidhu          | Munish Kumar       | STUDY OF THE SLURRY EROSION BEHAVIOUR OF CRYOGENICALLY TREATED STAINLESS STEEL  | 30-12-2016 | Mechanical Engineering | Engg. & Technology |
| 10 | <b>Sukhpal Singh Chatha</b> | Buta Singh Sidhu          | Harkulvinder Singh | CHARACTERISATION AND CORROSION BEHAVIOUR OF RARE EARTH ELEMENTS ADDED CHROMIUM CARBIDE-NICKLE CHROME COATINGS   | 27-04-2015 | Mechanical Engineering | Engg. & Technology |
| 11 | <b>Sukhpal Singh Chatha</b> | Buta Singh Sidhu          | Jagseer Singh      | SURFACE MODIFICATION TECHNIQUES TO IMPROVE ABRASION WEAR RESISTANCE OF TILLAGE EQUIPMENTS   | 27-04-2015 | Mechanical Engineering | Engg. & Technology |
| 12 | <b>Sushil Kumar</b>         | -                         | Harleen Kaur       | GENDER AND CLASS IN THE TURBULENT PUNJAB OF 1970s TO 90s:INTERPRETING SELECTED FICTION AND CINEMA   | 26-08-2015 | Department of English  | Languages          |
| 13 | <b>Gagandeep Kaushal</b>    | -                         | Rajan Verma        | SURFACE ENGINEERING ON Ni-BASED ALLOYS BY HIGH VELOCITY OXY FUEL (HVOF) SPRAYING AND LASER ASSISTED ADDITIVE MANUFACTURING (LAAM) FOR CORROSIVE APPLICATIONS                | 19-02-2016 | Mechanical Engineering | Engg. & Technology |
| 14 | <b>Gagandeep Kaushal</b>    | Tejinder Singh Sandhu     | Gurdip Singh       | COMPOSITIONAL MODIFICATION OF IRON BASED ALLOYS BY DIRECT METAL LASER SINTERING AND D-GUN SPRAYING FOR WEAR BASED APPLICATIONS  | 19-02-2016 | Mechanical Engineering | Engg. & Technology |
| 15 | <b>Balraj Singh Brar</b>    | -                         | Manmeet Shergill   | DEVELOPMENT AND INVESTIGATIONS IN THERMAL ABRASIVE FLOW MACHINING (Th-AFM) PROCESS EMPLOYING DIFFERENT ABRASIVE LADEN MEDIA   | 30-08-2016 | Mechanical Engineering | Engg. & Technology |
| 16 | <b>Balraj Singh Brar</b>    | -                         | Som Kumar          | EXPERIMENTAL INVESTIGATIONS IN THE ELECTROCHEMICAL AND MAGNETIC AID TO HELICAL ABRASIVE FLOW MACHINING PROCESS  | 27-09-2016 | Mechanical Engineering | Engg. & Technology |
| 17 | <b>Balraj Singh Brar</b>    | -                         | Karamjit Singh     | DEVELOPMENT AND INVESTIGATIONS IN MAGNETIC ASSISTED HELICAL ABRASIVE FLOW MACHINING PROCESS   | 27-09-2016 | Mechanical Engineering | Engg. & Technology |

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|----|--------------------------|---------------------|------------------|--|------------|--------------------------------|--------------------|
| 18 | <b>Jagtar Singh</b>      | -                   | Sunita Rani      | -  | 22-02-2017 | Electronics & Comm. Engg.      | Engg. & Technology |
| 19 | <b>Jagtar Singh</b>      | -                   | Manpreet Kaur    | -  | 22-02-2017 | Electronics & Comm. Engg.      | Engg. & Technology |
| 20 | Vishal Goyal             | <b>Simpel Rani</b>  | Neetika          | LANGUAGE IDENTIFICATION AND NORMALIZATION OF CODE MIXED ENGLISH AND PUNJABI TEXT   | 08-08-2017 | Computer Science               | Computing Sciences |
| 21 | <b>Pardeep Kumar</b>     | -                   | Parvinkal Singh  | EFFECT OF SEVERE PLASTIC DEFORMATION ON HIGH VELOCITY OXY-FUEL CERMET COATING TO IMPROVE EROSION RESISTANCE                        | 29-08-2017 | Mechanical Engineering         | Engg. & Technology |
| 22 | <b>Balraj Singh Brar</b> | -                   | Taranveer Singh  | DEVELOPMENT AND EXPERIMENTAL INVESTIGATIONS IN ABRASIVE LADEN ORGANIC MEDIA FOR ABRASIVE FLOW MACHINING PROCESS                    | 30-08-2017 | Mechanical Engineering         | Engg. & Technology |
| 23 | <b>Ashwani Kumar</b>     | -                   | Gurwinder Kaur   | DEVELOPING AN IMPROVED NO-REFERENCE BLUR DETECTION ALGORITHM FOR DISTORTED IMAGES  | 30-08-2017 | Electronics & Comm. Engg.      | Engg. & Technology |
| 24 | <b>Sushil Kumar</b>      | -                   | Gurpreet Kaur    | A STUDY OF PAUL THEROUX's SELECTED TRAVELOGUES   | 05-09-2017 | Department of English          | Languages          |
| 25 | Mukesh Kumar Thakar      | <b>Navdeep Goel</b> | Lovepreet Kaur   | FACIAL RECOGNITION FROM CCTV FOOTAGES UNDER DIFFERENT CONDITIONS   | 07-12-2017 | Department of Forensic Science | Physical Sciences  |
| 26 | <b>Simpel Rani</b>       | Parminder Singh     | Manjot Kaur Gill | DEVELOPMENT OF DIALECT IDENTIFICATION SYSTEM FOR PUNJABI SPEECH  | 14-03-2018 | Computer Science & Engineering | Engg. & Technology |
| 27 | <b>Jagtar Singh</b>      | Rajni               | Navneet Kaur     | A COMPACT METASURFACE BASED PLANAR RECONFIGURABLE ANTENNA FOR WIRELESS APPLICATIONS  | 28-08-2018 | Electronics & Comm. Engg.      | Engg. & Technology |
| 28 | <b>Jagtar Singh</b>      | -                   | Sandeep Singh    | DESIGN AND ANALYSIS OF WEARABLE HYBRID FRACTAL ANTENNA FOR WIRELESS APPLICATIONS   | 28-08-2018 | Electronics & Comm. Engg.      | Engg. & Technology |
| 29 | <b>Sushil Kumar</b>      | -                   | Gurpreet Singh   | FICTIONAL REPRESENTATION OF SOCIAL, CULTURAL AND ECONOMIC TRANSFORMATION IN NORTH INDIAN RURAL SOCIETY: A STUDY OF SELECTED NOVELS | 29-08-2018 | Department of English          | Languages          |

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|----|------------------------------|----------------------|---------------------|--|------------------------|--------------------------------|--------------------|
| 30 | <b>Bal Krishan</b>           | -                    | Navtej Singh Ghuman | DEVELOPMENT OF MOTOR IMAGERY TASKS ESTIMATION TECHNIQUE IN BRAIN-COMPUTER INTERFACE USING MACHINE LEARNING           | 04-09-2018             | Computer Science & Engineering | Engg. & Technology |
| 31 | <b>Bal Krishan</b>           | -                    | Vaneet Kumar        | DEVELOPMENT OF ENERGY EFFICIENT VIRTUAL MACHINE MIGRATION APPROACH IN CLOUD COMPUTING                                | 11-09-2018             | Computer Science & Engineering | Engg. & Technology |
| 32 | <b>Priti Bansal</b>          | Dhiraj Sud           | Jitesh Kumar        | PERSISTENCE, DEGRADATION AND MINERALIZATION STUDIES OF INSECTICIDES FROM SOIL AND WATER                              | 24-09-2018             | Department of Chemistry        | Physical Sciences  |
| 33 | <b>Priti Bansal</b>          | <b>Anju Saini</b>    | Pooja Gupta         | SYNTHESIS, CHARACTERIZATION AND CRYSTAL STRUCTURAL STUDIES OF NOVEL COPPER (II) COMPLEXES                            | 24-09-2018             | Department of Chemistry        | Physical Sciences  |
| 34 | <b>Sushil Kumar</b>          | -                    | Deepu Kumar         | DIALECTICS OF HOPE AND DESPAIR: A POST-MARXIST ANALYSIS OF SELECTED FICTION IN ENGLISH AND HINDI                     | 05-10-2018             | Department of English          | Languages          |
| 35 | <b>Ashwani Kumar</b>         | Narinder Sharma      | Kavneet Kaur        | A NOVEL DESIGN OF ULTRA WIDE BAND MONOPOLE ANTENNA WITH BAND NOTCH CHARACTERISTICS                                   | 30-10-2018             | Electronics & Comm. Engg.      | Engg. & Technology |
| 36 | <b>Bal Krishan</b>           | -                    | Shelly Garg         | DETECTION OF SKIN CANCER IN DERMOSCOPIC DIGITAL IMAGE  | 29-11-2018             | Electronics & Comm. Engg.      | Engg. & Technology |
| 37 | <b>Sukhpal Singh Chatha</b>  | <b>Rakesh Bhatia</b> | Jeewan Singh        | APPLICATION OF IONIC LIQUIDS IN MINIMUM QUANTITY COOLING LUBRICATION MACHINING OF MEDIUM CARBON STEEL                | 27-03-2019             | Mechanical Engineering         | Engg. & Technology |
| 38 | <b>Sukhwinder Singh Sran</b> | -                    | Manpreet Kaur       | DEVELOPMENT OF AN IMPROVED COLLISION FREE TECHNIQUE FOR MISSING DEMENTIA PATIENTS USING RFID ENABLED MOVING VEHICLES | 28-03-2019             | Computer Science & Engineering | Engg. & Technology |
| 39 | <b>Simpel Rani</b>           | Gurpreet Singh Lehal | Harpal Singh        | IMPROVED TECHNIQUES FOR RECOGNITION OF HISTORICAL GURMUKHI MANUSCRIPTS   | 25-04-2019             | Computer Science               | Computing Sciences |
| 40 | <b>Navdeep Goel</b>          | -                    | Guresh Pal Singh    | DEVELOPMENT OF AN APPROACH FOR SECURE IMAGE STEGANOGRAPHY  | 19-09-2019             | Computer Science & Engineering | Engg. & Technology |
| 41 | <b>Meenakshi Bansal</b>      | -                    | Gurbakhsis Singh    | -  | Enrolled<br>14-06-2019 | Computer Science               | Computing Sciences |

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|----|------------------------------|------------------------------|------------------|---|------------------------|--------------------------------|--------------------|
| 42 | <b>Navdeep Goel</b>          | -                            | Swimpy Pahuja    | - | Enrolled<br>26-07-2019 | Computer Science & Engineering | Engg. & Technology |
| 43 | <b>Sukhwinder Singh Sran</b> | -                            | Amarjeet Singh   | - | Enrolled               | Computer Science & Engineering | Engg. & Technology |
| 44 | <b>Sukhwinder Singh Sran</b> | -                            | Sarbjeeet Kaur   | - | Enrolled               | Computer Science & Engineering | Engg. & Technology |
| 45 | <b>Sukhwinder Singh Sran</b> | <b>Meenakshi Bansal</b>      | Ramanpreet Singh | - | Enrolled               | Computer Science & Engineering | Engg. & Technology |
| 46 | <b>Meenakshi Bansal</b>      | <b>Sukhwinder Singh Sran</b> | Navroop Kaur     | - | Enrolled               | Computer Science & Engineering | Engg. & Technology |
| 47 | <b>Simpel Rani</b>           | <b>Meenakshi Bansal</b>      | Tejinder Singh   | - | Enrolled               | Computer Science & Engineering | Engg. & Technology |