

## CHAPTER 55

### THESES OF THE PREVIOUS YEAR (A List of Theses Accepted for Awarded of the Degree of Ph.D. in 98th Annual Convocation-2022)

#### Doctoral Theses

#### AFRICAN STUDIES

01. KAUR (Jasdeep)  
**E-Banking in Kenya and India: A Comparative Study.**  
Supervisor: Dr. Sandipani Dash  
Th 26429

##### *Contents*

1. Introduction 2. Banking Sector in Kenya and India 3. E-Banking in Kenya and India: Progress and impact 4. Data Analysis and findings 5. Comparative analysis of E-Banking Progress in Kenya and India 6. Conclusion. Bibliography and Appendix.

02. SINGH (Pratik Kumar)  
**South Africa-China Economics Relations (2006-2017).**  
Supervisor: Dr. Sandipani Dash  
Th 26430

##### *Contents*

1. Introduction 2. South Africa-China Trade Relation 3. South Africa-China Investment Linkages 4. South Africa-China Financial Cooperation 5. Conclusion and Bibliography.

03. YADAV (Smita)  
**Constitutional Federalism and the Issues of Minorities in Nigeria Since 2000.**  
Supervisor: Dr. Vibha Gupta and Prof. Suresh Kumar  
Th 25826

##### *Contents*

1. Introduction 2. Political Federalism and Minorities in Nigeria 3. Economic federalism and Minorities in Nigeria 4. Social Federalism and Minorities in Nigeria 5. Implementation of Constitution and Minorities in Nigeria 6. Conclusion and Bibliography.

## ARABIC

04. ASIM AKHTAR  
**Writings of Abd Al Mun'im Al-Namir on the History of Islam in India: A Critical Study.**  
 Supervisor: Prof. M.N. Khan  
Th 26365

*Contents*

1. Hayat Al-Sheikh Abul Munaam al-Namr-O-an Jazatah-O- an Jazatah-O- Asarah
2. Ulema-e-al-Lazhir-O-dastoor 1971
3. Harlat Ali Kurrah/alsair sayed Ahmad Khan
- 4 Al-Ziyarah Lughat-O- Mustalhan
5. Al-Mauraz al-Muslim Bain Arzah-O-Naqad.

05. Mohd. Jalaluddin  
**Contribution of Al-Sheikh Ali al-Tantawi in the Field of Literature and Journalism.**  
 Supervisor: Prof. Naimul Hasan Asari  
Th 26366

*Contents*

1. Al-adab al-arbi fi Sauriya fi al quran al-Ashreemn
2. Nabzh an Hayat al-Sheikh Ali al-Tantawi
3. Al- Sheikh Ali al -Tantawi Adeeban
4. Al- ali Sheikh al-tantawi Sahafiyah
5. Al-Khatma
6. Al-Musadir wa-al Muraja.

06. MOHD. NAWAZ KHAN  
**Contribution of Muhammad Qutb to Arabic Language: A Critical Study.**  
 Supervisor: Dr. Mujeeb Akhtar  
Th 26364

*Contents*

1. Misr fi al-Quran al-Ashreen
2. Mohammad Qutb: Hayat -O-Dirasat
3. Ashimat Mohammad Qutb fi al-Lughat al-Arbiyah
4. Dirasah nawadiya Mohammad Qutb
5. Al-Khatma
6. Al Musadir wa al-Muraja.

## APPLIED SCIENCE &amp; HUMANITIES

07. GAUTAM (Sanjeev)  
**Studies on Preparation and Characterization of Natural Protein Isolate with Biodegradable Blends and Composites.**  
 Supervisor: Dr. Purnima Jain  
Th26407

*Contents*

1. Introduction & Literature survey
2. Materials & Experimental technique
3. Structural and morphological characterization of soy protein isolate reinforced PVA biocomposites and bionanocomposites
4. Mechanical and thermal characterization of soy protein isolate reinforced PVA biocomposites and bionanocomposites
- 5.

Rheological characterization of soy protein isolate reinforced with PVA biocomposites and bionanocomposites 6. Degradation study of soy protein isolate reinforced with PVA biocomposites and bionanocomposites 7. Summary, conclusion and future scope and List of Publications.

08. PODDAR (Deepak)  
**Studies on Preparation and Characterization of Biodegradable Polymeric Blends/Composites for Biomedical Application.**  
 Supervisors: Prof. Purnima Jain and Prof. Sujata Mohanty  
Th26406

*Contents*

1. Introduction 2. Experiments 3. An exploration on the properties such as mechanical, morphological and physicochemical on varied concentrations of chitosan coating on the pore wall of the three-dimensional porous PCL scaffold 4. The biological responses of the scaffolds with the varying concentration of chitosan coating on the pore wall of PCL scaffolds 5. Brief comparison on the scaffolds fabricated by surface coating method with the blending method 6. Interfacial coating of modified-hydroxyapatite, chitosan hybrid composite on the inner pore wall surface of polycaprolactone three dimensional polymeric scaffolds for bone tissue engineering applications 7. Summary and scope of future work conclusion and future scope and List of Journal Publications. Conferences. Workshops and Achievements.

## BIOCHEMISTRY

09. ANIL MEENA)  
**Study on CRHR1 and GR Gene Polymorphism and their Correlation with the Expression of Various Inflammatory Cytokines in Asthma in North India Populaton.**  
 Supervisors: Prof. S.K. Bansal, Dr. Vishwajeet Rohil, Prof. S.K. Chhabra and B.K. Menon  
Th25713

*Contents*

1. Introduction 2. Review of literature 3. Aim and objectives 4. Material and methods 5. Results 6. Discussion 7. Conclusion 8. Summary 9. References 10. Annexure 1,2,3,4,5,6,7.

10. SAINI (Manisha)  
**Structural Characterization and Identification of Small Molecule Inhibitors of DBH and ARL15 to Combat Hypertension and Rheumatoid Arthritis.**  
 Supervisors: Prof. Suman Kundu  
Th25707

*Contents*

1. Introduction, review of literature, aim and objectives 2. Identification and validation of small molecule inhibitors and plant extracts against dopamine beta hydroxylase: from laptop to benchtop 3. Evaluation of the therapeutic efficacy of leads in vivo 4. Structural, biophysical and biochemical characterization of ARL 15

5. ARL 15 as a drug target: screening of small molecules, validation of their binding and evaluation in animal models. Summary and Future perspective. Appendix. Publications & Patents and Curriculum vitae.

## BIOPHYSICS

11. GARG (Anjali)  
***In silico* analysis of host-pathogen interaction: a case study with molecular mimicry phenomena.**  
 Supervisor: Dr. Manish Kumar  
Th 26431

### *Contents*

1. Introduction 2. Review of literature 3. Establishment of gold standard database of mimicry proteins and peptides 4. Characterization of mimicry proteins and peptides 5. Repurposing of drugs for treatment of autoimmune disease caused by mycobacterium tuberculosis 6. Repurposing of drugs to treat mycobacterium avium ss. Paratuberculosis infection and autoimmune disease caused by molecular mimicry 7. Discerning the role of molecular mimicry in mycobacterium tuberculosis pathogenesis 8. Prediction of mRNA subcellular localization 9. Summary and future prospects. Bibliography. Annexures.

## BOTANY

12. PHUKELA (Banisha)  
**Floral Nectary in Solanaceae: Diversity, Evolutionary History and Role of CRABS CLAW.**  
 Supervisor: Prof. Rajesh Tandon  
Th 25721

### *Contents*

1. Comparative Morphology and Anatomy of Floral Nectaries and its Phylogenetic Mapping in Selected Species of Solanaceae 2. Microsynteny analysis and Phylogenetic reconstruction to understand history of *CRCa/b* homologues in Solanaceae 3. Isolation and Characterisation of *CRCa/b* Homologs in Selected Solanaceae. Summary and Conclusion. Literature Cited. Illustrations and Appendices.

13. SINGH (Krishna Nand)  
**Development of Genetic Resources and Mapping of loci Conferring Resistance to Fusarium wilt in a F5 Biparental Mapping Population and a Core Collection based association panel of Safflower (*Carthamus tinctorius* L.).**  
 Supervisor: Prof. Manu Agarwal  
Th 25720

### *Contents*

1. Introduction and Review of Literature 2. Development of mapping population and Polymorphic genomic SSR markers for mapping of loci and inheritance study for FW resistance in Safflower 3. Identification and Validation of in Silico Mined Polymorphic EST-SSR for Genetic Diversity and Cross-species transferability studies

in Safflower 4. Construction of GBS based High-density linkage map and identification of loci for FW resistance in Safflower 5. Genome wide association study for FW resistance in Safflower. Summary and Conclusions. References. List of Appendices and List of Publication and Conference Presentations.

## BUDDHIST

14. BAISHYA (Pinky)  
**Buddhism and Clinical Psychology: a Comparative Study.**  
 Supervisor: Prof. Meeta Nath  
Th 26403

### *Contents*

1. Introduction 2. Buddhism in India 3. Compassion in Buddhist Psychology 4. Great Elements in Buddhism Psychology 5. Source of Compassion 6. What is Enlightenment 7. Conclusion. Bibliography.

15. Bhardwaj (Prerna)  
**Philosophical Foundation of Buddhist Arts: a Study.**  
 Supervisor: Dr. Indra Narain Singh  
Th 26397

### *Contents*

1. Buddhist Art: Its Inception and Approach to the Nature and thought 2. Philosophy and Society: Reflection in Buddhist art 3. Three Lords of Protection (Trilok-Nath): Personification of Paramitas 4. Buddhist Art: An Ontological and Epistemological Investigation 5. Buddhist art: An Essential Component of Buddhist Pedagogy. Conclusion and Bibliography.

16. GURMET (Rigzen)  
**Distinctive Methods for the Attainment of Sambodhi In Drukpa Kagyu Lineage of Tibetan Buddhism.**  
 Supervisor: Dr. Galdhan Sangai  
Th 26402

### *Contents*

1. Meaning and Detail Etymological Study of the "BRA BRGYUD" oral Lineage and "DKR BRGYUD" Lineage of White Cotton Garment 2. Historical Source of BRUG Pa BRA RGYUD LINEAGE' of Tibetan Buddhism 3. Origin of 'BRUG PA DKA BRGYUD LINEAGE' of Tibetan Buddhism 4. Most Prominent Scholar of 'BRUG PA LINEAGE' 4<sup>th</sup> RGYAL DBANG 'BRUG PA'KUN MKHYEN PAD+MA DKAR PO. 5. Contemporary Great Yogis of 'BRUG PA DKAR BRGYUD LINEAGE' of Tibetan Buddhism 6. Preliminary Practice of DRUKPA KARGYUD LINEAGE' of Tibetan Buddhism 7. SAMATHA AND VIPSYANA: The Primary stage of MAHAMURA MEDITATION of 'BRUG PA BKA' BRGYUD School of Tibetan Buddhism. Conclusion and Select Bibliography.

17. HUONG (Do Thi Thanh)  
**Lay Ethics in the Buddhavacana: An Examination of the SIGĀLOVĀDA SUTTA.**  
 Supervisor: Prof. Subhra Barua Pavagadhi  
Th 26395

*Contents*

1. Introduction: Buddhist Views on the Ethical Life of the Laypeople 2. Generalization of the Buddhist Precepts in Ethical Life of the Layman 3. Ethical Life of Individuals, Families and Society in the SIGĀLOVĀDA SUTTA 4. Ethical Life of Society in General and the spirit in the SIGĀLOVĀDA SUTTA. 5. Role and Value of the SIGĀLOVĀDA Sutta in Social Life Conclusion. References. Bibliography. Plagiarism and Article Certificate.

18. नवीन कुमार  
**भारतीय समाज की विषमता पीआर भीमराव अंबेडकर व महात्मा गांधी के विचारों की तुलनात्मक समीक्षा .**  
 निर्देशक : डॉ .प्रदीप कुमार  
Th 26396

*विषय सूची*

1. मोहनदास करम चंद गांधी तथा भीमराव अंबेडकर से संबन्धित ऐतिहासिक शोध 2. बुद्ध और गांधी के समवेशी विचारों का अनुशीलन 3. क्या अंबेडकारवादी बौद्ध धर्म अनुभवजन्य या तार्किक धर्म था 4. महात्मा गांधी और अंबेडकर का अछूतीद्वार की संबंध में दार्शनिक विवेचन 5. गांधी और अंबेडकर का अनुसूचित जातियों के सुधार के बारे में एक दृष्टि कोण: एक सहित्यिक सर्वेक्षण 6. गांधी की नारीवादी अवधारणा दुविधा का शिकार 7. अंबेडकर के नारियों के प्रति उदरवादी दृष्टि कोण का उदगम: हिन्दू धर्म- शास्त्र 8. गांधी के सर्वोदय के सत्रों तथा उनके आत्म अनुभव का पुनर्मूल्यांकन 9. राजधर्म और राम राज्य का सापेक्षतापीआर आधारित, राजनैतिक, वैचारिक संबंध 10. उपसंहार 11.संदर्भग्रंथसूची।

19. PHUNG (Phan Dac)  
**Archaeological and Literary Perspective of the Travels of Xuanzang in Eastern India.**  
 Supervisor: Dr. Pradeep Kumar  
Th 26490

*Contents*

1. Introduction 2. The Archaeology of Ratna giri Buddhism in Orissa 3. Buddhism in Vaisali 4. Xuan-Zang's Travels in Pataliputra 5. The Perspective of Buddha Gaya 6. Rajgir, Place of Taming the Drunken Elephant 7. Ancient Nalanda University and Mahavihara 8. Conclusion. Bibliography.

20. प्रेमलता  
**आधुनिक परिपेक्ष्य में बौद्ध धर्म की प्रसांगिकता :एक समीक्षात्मक अध्ययन.**  
 निर्देशिका : डॉ .सुष्मिता  
Th 26399

*विषय सूची*

1.बौद्ध धर्म का प्रादुर्भाव एवं ऐतिहासिक विकास 2. वर्तमान आर्थिक व राजनैतिक परिदृश्य में बौद्ध धर्म की प्रासंगिकता 3. आधुनिक सामाजिक समस्याओं एवं इनके समाधान के रूप में बुद्ध की शिक्षाओं का

मूल्यांकन 4. आधुनिक कल में पर्यावरण समस्याएं एवं बौद्ध धर्म के अनुसार समाधान 5. मानव जीवन में नैतिकता एवं बौद्ध धर्म 6. आधुनिक कल की प्रमुख समस्याएँ एवं वर्तमान में बौद्ध धर्म की शिक्षाओं की प्रासंगिकता. उपसंहार. संदर्भ ग्रंथ सूची और परिशिष्ट.

21. SAPNA  
**Historical Study of KAUSĀMBĪ: Literary and Archaeological Perspective.**  
 Supervisor: Dr. Nirja Sharma  
Th 26400

*Contents*

1. Introduction 2. Literary Source: Indigenous 3. Accounts of the Chinese Pilgrims (Literary Sources) 4. Archeological Sources. Conclusion. Bibliography and Appendix.

22. SUKHIJA (Neha)  
**Perception: A Comparative Study Between Buddhism and NYĀYA.**  
 Supervisor: Dr. P.K. Panda  
Th 26401

*Contents*

1. Introduction: The Nature and Criterion of Knowledge 2. Four Buddhist School of Philosophy 3. Buddhist theory of Perception 4. NYĀYA Theory of Perception 5. Perception: A Comparative Study. Conclusion and Bibliography.

23. उपेन्द्रे कुमार  
**बौद्ध गुहा मंदिरों एवं इसके अभिलेखों का सांस्कृतिक अध्ययन.**  
 निर्देशक : डॉ. एम.एम. रहमान  
Th 26398

*विषय सूची*

1 बौद्ध धरम एवं बोद्ध विहार का इतिहास 2. बौद्ध शैलोत्खनित वास्तुकला 3. बौद्ध गुहा मंदिर 4. बौद्ध गुहा मंदिरों के अभिलेख 5. बोद्ध गुहा मंडेरों एवं इसके अभिलेखो का सांस्कृतिक परिपेक्ष्य। उपसंहार. संदर्भ ग्रंथ सूची.

## CHEMISTRY

24. AGGARWAL (Leena)  
**Hydration Environment around Intrinsically Disordered Proteins.**  
 Supervisor: Prof. Parbati Biswas  
Th 26338

*Contents*

1.Introduction 2. Hydration water distribution around intrinsically disordered proteins 3. Effect of Alzheimer's disease causative and protective mutation on the hydration environment of amyloid-β 4. Interaction volume is a measure of the aggregation propensity of amyloid- β 5. Hydration thermodynamics of the N-terminal

FAD mutants of amyloid— $\beta$  6. Hydration thermodynamics of familial Parkinson's disease linked mutations of  $\alpha$ -synuclein. Bibliography.

25. ANITA KUMARI  
**Anticorrosive Properties of Synthesized Schiff Bases as Corrosion Inhibitors for Mild Steel in Acidic Medium.**  
 Supervisor: Prof. Gurmeet Singh and Prof. Raj Kishore Sharma  
Th 26346

*Contents*

1. Introduction 2. Literature review 3. Experimental procedure 4. Weight loss measurements 5. Electrochemical impedance spectroscopy 6. Galvanostatic polarization studies 7. Temperature kinetics studies 8. Scanning electron microscopy 9. Atomic force microscopy 10. FT-IR spectroscopy: attenuated total reflectance (ATR) studies 11. Quantum chemical calculations 12. Conclusions. List of publications, poster presentations, conferences and workshop attended.

26. ARVIND KUMAR  
**Synthesis and Applications of Photoresponsive Materials.**  
 Supervisor: Dr. Satish Kumar  
Th 26339

*Contents*

1. Introduction to merocyanine dye based sensitized solar cells 2. Light and Redox responsive benzothiazolinic spiropyran derivatives for heavy metal ions sensing 3. Photocomic naphthopyran scaffolds for heavy metal ions and carboxylic acids detection 4. Benzothiazolinic salt detection of lethal cyanide Ion and ferric Ion in aqueous medium 5. Portable and sensitive photochromic spiropyran as probes for sensing of heavy metal ions 6. Detection of toxic anions and cations using spiropyran- oxazine conjugates 7. Synthesis and applications of applications of calix[n] arene derivatives supported over different surface 8. Recognition of metal Ions, anions and neutral molecules using fluorescent nanoprobles. List of patent and publication.

27. CHAUDHARY (Karan)  
**Carbon Nanomaterials and their Composites: Synthesis, Physicochemical Studies and Utilization as Protein Immobilization Matrix, Sensor and Catalyst.**  
 Supervisor: Dr. Dhanraj T. Masram  
Th 25886

*Contents*

1. Introduction 2. Proteins immobilization on graphene oxide or reduced graphene oxide surface and their applications: influence over activity, structural and thermal stability of protein 3. In-depth understanding of nano-bio interface between Lysozyme and Au NP-immobilized doped reduced graphene oxide 2-D scaffolds 4. Evaluation of utilizing functionalized graphene oxide nanoribbons as compatible biomaterial for lysozyme 5. Sustainable solvothermal conversion of waste biomass to functional carbon material: extending its utility as a biocompatible cosolvent for lysozyme 6. Ruthenium oxide nanoparticles immobilized over citrus limetta waste derived carbon material for electrochemical detection of hexestrol 7. Fruit waste(pulp) decorated CuO NFs as promising platform for enhanced catalytic



response and its peroxidase mimics evaluation. List of publications/List of conferences.

28. DAS (Vikas)  
**Synthesis, Characterization and Application of Rare Earth-Transition Metal Heterometallic Silico and Phosphotungstate Polyoxometalates.**  
 Supervisor: Dr. Firasat Hussain  
Th 26345

*Contents*

1.Introduction and experimental part 2. A self-assembled heterometallic {Co<sup>II</sup>-Ho<sup>III</sup>} nanocluster: 3d-4f Trimeric Keggin-Type silicotungstate [HoCo<sub>7</sub>Si<sub>3</sub>W<sub>29</sub>O<sub>108</sub>(OH)<sub>5</sub>(H<sub>2</sub>O)]<sup>18-</sup> and its magnetic applications 3. Sythesis,crystal structures of Y<sup>III</sup> containing Di-metal substituted 1,5 Isomers of heterometallic phosphotungstate nanoclusters: [Y{PM<sub>2</sub>W<sub>10</sub>O<sub>38</sub>(H<sub>2</sub>O)<sub>2</sub>}<sub>2</sub>]<sup>11-</sup>(M=Co<sup>II</sup>and Zn<sup>II</sup>) 4. Single-molecule magnetic and photoluminescence properties of heterometallic 3d-4f [Ln{PZn<sub>2</sub>W<sub>10</sub>O<sub>-38</sub>(H<sub>2</sub>O)<sub>2</sub>}<sub>2</sub>]<sup>11-</sup> phosphotungstate nanoclusters. Conclusion of the thesis. List of publications. List of conferences and workshops.

29. DIVYA PRABHA  
**Coordination Complexes Offering Hydrogen Bonding Cavities: Applications in Sensing and Catalysis.**  
 Supervisor: Prof. Rajeev Gupta  
Th 25887

*Contents*

1.Introduction: a survey of coordination complexes offering H-bonding interaction in the secondary coordination sphere 2. Selective detection of picric acid and pyrosulfate ion by nickel complexes offering hydrogen bonding based cavity 3. Selective detection of fluoroquinolone drugs by zinc complexes offering hydrogen bonding based cavity 4. Cobalt and N-alkylation of amines by alcohols: role of hydrogen bonding pocket 5. Cobalt complexes offering hydrogen bonding based cavity and their applications in OER and HER. Summary. List of publications.

30. DRASHYA  
**Design and Synthesis of Graphene Oxide and Chitin based Nanomaterials for Water Purification and Biological Application.**  
 Supervisor: Dr. Sunita Hooda  
Th 26336

*Contents*

1.Introduction 2. Instrumentations techniques employed for characterizing graphene oxide and chitin-based nanomaterials 3. Magnetic graphene Oxide/Chitin -A promising Nano adsorbent cationic dyes from aqueous solutions 4. Isotherm modelling, kinetic and thermodynamics studies on the removal of reactive blue 13 from the aqueous solution by use of magnetic Chitin Nanomaterial 5. Removal of rhodamine 6G dyes from the aqueous solution using magnetic graphene oxide nanocomposite 6. Piezocatalytic activity of graphene oxide chitin magnetic iron oxide beads nanomaterial for the efficient degradation of cationic dyes 7. To study the property of graphene oxide and chitin-based nanomaterials as multifunctional synergist of insecticides against aedes aegypti. Future scope and perspective. List of publications and conference attended.

31. GAGANDEEP

**Structural Optimization of Heterocyclic Compounds for Their Therapeutic Applications.**

Supervisor: Prof. Diwan S. Rawat  
Th 25884

*Contents*

1. Synthesis characterization and anti-TB activity of benzimidazole derivatives 2. Synthesis of carbazole-urea hybrids, anti-viral activity and structural activity relationship study 3. Design and synthesis of 4- aminoquinoline-trisubstituted pyrimidine-based molecules hybrids as anti-malarial agents 4A. Synthesis of novel aminocarbonyl curcuminoids as anti-bacterial and anti-TB agents, mechanistic and metabolic stability studies 4B. Synthesis, SAR and anti-tuberculosis activity of pyrazole derivatives. Summary and list of publications and conferences.

32. KHARU NISA

**Synthesis of Selected Porphyrin Conjugates and their Applications in Material and Supramolecular Chemistry.**

Supervisor: Prof. M.Tirumal and Prof. S.M.S.Chauhan  
Th 25895

*Contents*

1. Synthesis of hexaphenylbenzene porphyrin conjugates and superbenzene porphyrin conjugates: a combined experimental and computational study 2. Synthesis of 5,15 bis(hydroxyaryl) 10,20- bis(hexaphenylbenzene)porphyrin conjugates and their transformation to corresponding quinones 3. Synthesis of core modified Azuli-porphyrinoids and study of their local versus global aromaticity 4. Synthesis and spectroscopic properties of Host-Guest complex consisting of chirality-memory molecule and its application in supramolecular chemistry. Summary. List of publications.

33. MEENA ( Virendra Kumar)

**Development of Small Imaging Probes for Neurocognitive Disorders.**

Supervisors: Dr. Rakesh Kumar Sharma and Dr. Pujja Panwar Hazari  
Th 26458

*Contents*

1. Molecular Imaging; Introduction and Review of Literature 2. Objective Definition 3. DO3A-butyl-MPP (O-Methoxyphenyl Piperazine) based antidepressive agent 4. Anxiolytic and neuroprotective effects of DO3A-butyl-MPP in Rodent model of Chronic mild Stress 5. A Potent, Acetylcholinesterase Selective and Reversible homodimeric agent based on tacrine for diagnosis and therapy. Conclusion and List of Publication.

34. MITTAL (Ankit)

**DFT Investigations of the Varied Facets of Retrochalcones Isolated from Liquorice Root.**

Supervisor: Prof. Ritu Kakkar  
Th 25872

*Contents*

1. Synthesis methods and biological applications of retrochalcones isolated from the root of Glycyrrhiza species: a review 2. Computational techniques 3. A DFT study of the conformational and electronic properties of echinatin, a retrochalcone, and its anion in the gas phase and in aqueous solution 4. The effect of solvent polarity on the

antioxidant of echinatin, a retrochalcone, toward various ROS: A DFT thermodynamic study 5. A theoretical assessment of the structural and electronic features of retrochalcones isolated from liquorice root 6. The antioxidant potential of retrochalcones isolated from liquorice root: a comparative DFT study 7. Concluding remarks. Bibliography.

## 35. PARMANAND

**Fabrication of Non-ionic Amphiphilic Nanocarriers for Biomedical Applications & Synthesis of Heterogeneous Catalysts for Carbon-Carbon Cross-Coupling Reactions.**

Supervisor: Prof. Sunil K. Sharma

Th 26343

*Contents*

1. Oligo-glycerol based non-ionic amphiphilic nanocarriers for lipase mediated controlled drug release 2. Fabrication of lipase responsive non-ionic amphiphilic nanocarriers for biomedical applications 3. Applications of palladium immobilized graphene oxide surface for carbon-carbon cross-coupling reactions 4. Guar gum stabilized nickel nanoparticles: application in carbon-carbon cross-coupling reactions. Summary. Papers published.

## 36. RASHIM

**Novel N-heterocyclic Scaffolds for the Recognition and Binding Investigations of Biologically Important Analytes through Spectroscopic and Computational Methods.**

Supervisor: Prof. Rakesh Kumar

Th 25875

*Contents*

1. Pyrene appended bis-triazolylated 1,4-dihydropyridine as a selective fluorogenic sensor for  $\text{Cu}^{2+}$  and its application in live cell imaging 2. A pyridine dicarboxylate based hydrazine Schiff base for reversible colorimetric recognition of  $\text{Ni}^{2+}$  and PPI in aqueous methanol and its molecular logic gate behavior 3. Rapid colorimetric detection of arginine using a pyrano-pyrazole hydrazine Schiff base in nanomolecular range and its potential application in dietary supplements 4. Scrutinizing the interaction of bovine serum albumin and human hemoglobin with isatin-triazole functionalized rhodamine through spectroscopic and In-silico approaches. Summary. List of publication. Conferences and workshops.

## 37. SANDEEP KUMAR

**Synthesis of modified pyrimidine nucleosides, sugar-fused pyrano [3,2-c] pyranones and their photophysical & anti-cancer activity study.**

Supervisor: Prof. Ashok K. Prasad

Th 26344

*Contents*

1. Chemo-enzymatic synthesis of (5'R)-2'-O,5'-C-bridged- $\beta$ -D-homolyxofuranosyl pyrimidine nucleosides 2. Chemo-enzymatic and chemical synthesis of (5'R)-3' azido-3'-deoxy-2'-O,5'-C bridged  $\beta$ -D-homoarabinofuranosyl pyrimidine nucleosides: bicyclic AZT analogue 3. Synthesis and photophysical study of 5-(3'' alkyl-amino-1''-azaindolizin-2''-yl)-2'-deoxyuridine

nucleosides 4. Efficient and stereo-selective synthesis of sugar-fused pyrano[3,2-c] pyranones as anti-cancer agents. Summary. List of publications. Published papers.

38. SETHI (Aanchal)  
**Exploration of a few mixed metal oxides with a focus on optical, magnetic and ion-conductivity properties.**  
 Supervisor: Prof. Sitharaman Uma  
Th 25874

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Introduction 2. Iron containing oxides possessing unique structural and magnetic features 2.1 Crystal structures, optical and magnetic properties of novel one dimensional antiferromagnetic chain containing  $\text{Na}_2\text{FeSbO}_5$  oxide 2.2. Synthesis, structure and magnetic properties of  $\text{Fe}^{2+}$  incorporated honeycomb ordered,  $\text{Na}_3\text{Fe}_2\text{SbO}_6$  2.3. Low temperature synthesis and characterization of delafossites,  $(\text{Cu}_3\text{MFeSBO}_6)$  3. Multifunctional properties and applications of defect fluorite oxide systems 3.1. Oxygen ion conductivity studies of bismuth and bismuth calcium co-doped  $\text{ThO}_2$  3.2. Divalent doped bismite ( $\delta\text{-Bi}_2\text{O}_3$ ) stabilized by  $\text{Th}^{4+}$  substitution as a bifunctional catalyst 3.3 Luminescence and electrical properties of rare earth ( $\text{Eu}^{3+}$  and  $\text{Tb}^{3+}$ ) doped bismite ( $\delta\text{-Bi}_2\text{O}_3$ ) stabilized by  $\text{Th}^{4+}$  substitution 4. Conclusions and future directions. Appendix: Solid solution members belonging to delafossite structural family. List of publications and conferences attended.

39. SHARMA (Manisha)  
**Photophysical Investigation of Isoxazole Derivative of Curcumin Inside Different Microenvironments.**  
 Supervisor: Prof. Subho Mozumdar  
Th 26342

*Contents*

1.Introduction and review of literature 2. Characterization techniques 3. Effect of solvent on the photophysical properties of isoxazole derivative of curcumin: a combined spectroscopic and theoretical study 4. Deciphering the impact of pH on the photophysics and stability of isoxazole derivative of curcumin 5. A spectroscopic study of influence of  $\beta\text{-CD}$  on the photophysical properties of isoxazole derivative of curcumin 6. Perturbations in the photophysical properties of isoxazole derivative of curcumin up on interaction with different anionic, cationic and non-ionic surfactants 7. Spectroscopic investigation to gain an insight about the interaction mechanism of isoxazole derivative of curcumin with biodegradable self-assembling polymer 8. Conclusion. List of publications. List of International/National conferences/Workshop.

40. SINGH (Nidhi)  
**Design, Synthesis and Optimization Studies of Small Organic Molecules.**  
 Supervisor: Prof. Ramesh Chandra  
Th 26337

*Contents*

1. Introduction 2. Review of literature 3. Aim and objectives 4. Design synthesis and characterizations of chalcones hydrazones and pyrrolo[1,2-a] pyrazines 5. Interaction study of chalcone with bovine serum albumin employing spectroscopic and chemoinformatic approaches 6. Interaction study of chalcone with lysozyme using spectroscopic and *in silico* approaches 7. Colorimetric sensor based on chalcone for detection of copper (II) ion in semi-

aqueous solution: spectroscopic and theoretical approaches. Summary. Research publications and certificate of conferences.

41. SONIA  
**Chitosan and Citrate based Gold Nanoparticles for Biomedical Applications.**  
 Supervisor: Prof. Shrikant Kukreti and Prof. Mahima Kaushik  
Th 25873

*Contents*

1.Introduction and review of literature 2. Materials & experimental techniques 3. Synthesis, characterization and DNA interaction studies of chitosan & citrate reduced gold nanoparticles: physicochemical investigations 4. Citrate reduced gold nanoparticles based colorimetric sensing strategy for detection of an anticancer drug and DNA 5. Azure-B conjugated citrate reduced gold nanoparticles for applications in different cancer therapies 6. Conclusion. Bibliography. List of publications and conferences. Published research articles.

42. UJJWAL (Rishabh)  
**Platinum (II) and Palladium (II) Adducts of N-Substituted Guanidines and Six-Membered Cycloplatinated Guanidine Complexes: Reactivity Studies, Structural Aspects (Pt) and Catalytic Utility (Pd).**  
 Supervisor: Prof. N. Thirupathi  
Th 26347

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1.Introduction 2. Result and discussion 3. Supporting information. Appendix: half sandwich electron deficient  $N,N',N''$  triarylguanidinoruthenium(II) complexes: syntheses, reactivity studies and structural aspects. Synopsis and Abstract.

43. YADAV (Deepika)  
**Design and Synthesis of Triazine-Based Covalent Organic Polymer Materials for Catalytic Applications.**  
 Supervisor: Prof. Satish K. Awasthi  
Th 26340

*Contents*

1.Recent advances in design, synthesis and catalytic applications of triazine based covalent design organic polymer 2. An unsymmetrical covalent organic polymer for catalytic amide synthesis 3. A Pd NP-confined novel covalent organic polymer for catalytic applications 4. A pd confined hierarchically conjugated covalent organic polymer for hydrogenation of nitroaromatics: catalysis, kinetics, thermodynamics and mechanism 5. Ni nanoparticles confined covalent organic polymer directed diaryl-selenides synthesis. List of publications. List of Conferences.

44. YADAV (Sneha)  
**Unraveling the Potency of Magnetically Responsive Metal Organic Framework Composites: Designing, Fabrication, Characterization and Catalytic Applications in C-H Activation, Multicomponent Click Coupling and Condensation Reactions.**  
 Supervisor: Prof. R.K. Sharma  
Th 26341

*Contents*

1.Introduction 2. Theoretical aspects of analytical techniques employed for physico-chemical characterizations 3. Expanding the horizons of multicomponent oxidative coupling reaction via the design of a unique ,3D copper isophthalate MOF-based catalyst decorated with Mixed spinel  $\text{CoFe}_2\text{O}_4$  nanoparticles 4. Harnessing the untapped catalytic potential of a  $\text{CoFe}_2\text{O}_4/\text{Mn-BDC}$  hybrid MOF composite for obtaining a multitude of 1,4-disubstituted 1,2,3- triazole scaffolds 5. Unlocking the catalytic potency of  $\text{CoFe}_2\text{O}_4/\text{Ni-BTC}$  MOF composite: a neoteric route for assessing a library of tri and tetra-substituted imidazoles 6. A magnetic  $\text{CoFe}_2\text{O}_4/\text{Cu-ABCD}$  MOF heterostructured composite unleashing enhanced catalytic performance toward the sustainable synthesis of 2H-Indazole motifs. Summary. List of publication. List of conferences, workshop and seminar attended. Published papers.

## COMMERCE

45. ASHA RANI

**Price Discovery and Volatility Spillover Effects across the Stock Markets of Developed and BRICS Countries: An Empirical Analysis.**

Supervisor: Prof. Sunaina Kanojia and Dr. Anu Pandey  
Th 26386

### *Contents*

1. Introduction 2. Conceptual framework and review of literature 3. Data and methodology 4. Analysis for price discovery and return spillover 5. Volatility spillover developed countries to brics economics & within brics 6. Summary and conclusions. Bibliography.

46. BHATIA (Bunny Singh)

**Antecedents and Ensuaunts to Dividend Stocks: An Empirical Analysis of Developed and Emerging Nations.**

Supervisor: Prof. Sunaina Kanojia  
Th 26387

### *Contents*

1. Introduction 2. Conceptual framework 3. Literature review 4. Data and research methodology 5. Empirical study of dividend behavior across various countries: lintner partial adjustment model 6. Determinants of dividend policy of developed markets 7. Determinants of dividend policy of emerging markets 8. Agency conflict and propensity to pay dividend around the world 9. Dividend policy and wealth maximization 10. Summary and conclusions. References. Appendices.

47. GAMBHIR (Sakshi)

**Environmental Kuznets Curve: A Study of Select South Asian Countries.**

Supervisor: Prof. Niti Bhasin  
Th 26388

### *Contents*

1.Introduction 2. Conceptual framework 3. Literature review 4. Data and methodology 5. Analysis and results 6. Conclusion. Bibliography.

48. GOLDAR (Anindita)  
**Nature and Determinants of Outward Foreign Direct Investment: A Study of Select Indian Manufacturing Firms.**  
 Supervisor: Prof. Ritu Sapra and Prof. K.V. Bhanu Murthy  
Th 26389

*Contents*

1. Introduction 2. Conceptual framework 3. Literature review 4. India's policy framework on outward foreign direct investment 5. Nature of India's outward foreign direct investment 6. Outward FDI from India: an analysis of trends and patterns 7. Determinants of manufacturing outward FDI from India: role of host country factors 8. A Firm-Level analysis of manufacturing outward FDI from India 9. Summary, conclusion and policy implications. References. Appendices.

49. JAIN (Anuradha)  
**Testing Stock Market Anomalies in Select Asian Countries.**  
 Supervisor: Dr. Krishnan Lal Dahiya and Dr. Poonam Gupta  
Th 26390

*Contents*

1. Introduction 2. Conceptual framework of the study 3. Comprehensive analysis of Asian countries 4. Review of literature 5. Data and their sources 6. Research methodology 7. Stationarity testing and the descriptive statistics 8. Empirical analysis of calendar anomalies 9. Empirical analysis of CAPM anomalies 10. Comprehensive analysis 11. Implications and concluding observations 12. Limitations and scope for further analysis. Bibliography and Appendix.

50. JINDAL (Garima)  
**Impact of Celebrity Endorsement, Brand Image and Consumer Involvement on Brand Equity.**  
 Supervisor: Prof. S.K. Jain  
Th 26391

*Contents*

1. Introduction 2. Literature review of brand equity 3. Celebrity endorsement and consumer involvement 4. Research methodology 5. Analysis results-mobile phone 6. Analysis results-cold drinks 7. Analysis results-comparison between high vs. low involvement products 8. Summary, findings, implications, limitations and directions for future research. References and appendix.

51. MALIK (Anuradha)  
**Consumers' Pre-purchase Information Search Behaviour for Services.**  
 Supervisor: Dr. H.K. Dangi  
Th 26392

*Contents*

1. Introduction 2. Literature review 3. Research methodology 4. Finding and discussion 5. Conclusion. Bibliography. Appendices.

52. MOKHA (Anupreet Kaur)  
**Impact of Electronic Customer Relationship Management (E-CRM) on Customer Loyalty in Relation to Customer Experience and Customer Satisfaction in the Banking Industry.**  
 Supervisor: Dr. Pushpender Kumar  
Th 26390

*Contents*

1.Introduction 2. Literature review 3. Conceptual framework 4. Research design 5. Data analysis 6. Discussion, implications and conclusion. Bibliography. Appendices.

53. MONIKA  
**Corporate Governance and Dividend Policy: Evidence from Indian Listed Firms.**  
 Supervisor: Dr. Shital Jhunjhunwala  
Th 26394

*Contents*

1. Introduction 2. Theoretical background 3. Review of literature 4. Corporate governance and dividend policy introduction of CG regulations 5. Corporate governance and dividend policy- a comprehensive study 6. Summary conclusion and implications. References. Appendices.

## COMPUTER ENGINEERING

54. ARORA (Shefali)  
**An Investigation into Security and Privacy issues in Biometrics.**  
 Supervisor: Prof. M.P.S Bhatia  
Th 26454

*Contents*

1. Introduction 2. Literature review Spoofing detection in fingerprints using deep learning 4. Spoofing attack detection in faces 5. A multimodal biometric system for secure user identification based on deep learning 6. A secure framework to preserve privacy of biometric templates 7. Application of biometric identification across the Web 8. Conclusion and future work. List of publications. References.

55. GAURAV INDRA  
**Designing Secure Communication Protocols for Cognitive Radio Networks.**  
 Supervisor: Prof. Sanjay Kumar Dhurandar  
Th 26457

*Contents*

Introduction 2. Literature survey 3. Vector time encoding scheme for synchronizing AKA in CRN archetypes 4. Conjoint belief adaptation framework for statistically secure communication in CRN archetypes 5. Robust partial ordering for faster convergence of



distributed consensus in CRN archetypes 6. Conclusion and future scope. List of publications. Bibliography.

56. KANDHOUL (Nisha)  
**Security Enhancement Techniques for Efficient Routing in Opportunistic Internet of Things.**  
 Supervisor: Prof. Sanjay Kumar Dhurandher  
Th 26455

*Contents*

1. Introduction 2. Literature review 3. An asymmetric RSA based security approach 4. An efficient and secure data forwarding mechanism 5. A trust-based security approach 6. An energy and space efficient trust based secure routing 7. Fuzzy trust based secure routing protocol 8. Random forest classifier based safe and reliable routing 9. Deep Q learning secure routing approach 10. Conclusion and future work. List of publications. References.

57. SINGH (Jagdeep)  
**Proficient Route Selection Strategies for Effective Routing in Delay-Tolerant Opportunistic Networks.**  
 Supervisor: Prof. Sanjay Kumar Dhurandher  
Th 26456

*Contents*

1. Introduction 2. Literature survey 3. Buffer management technique 4. Geocasting 5. Energy aware routing 6. Multipath based secure routing 7. Message trust based secure routing 8. Blockchain-based secure routing 9. Machine learning based routing 10. Conclusion and future work. List of publications. Bibliography.

## COMPUTER SCIENCE

58. GUPTA (Richa)  
**Securing IRIS Biometric System Against Replay and Database Attacks Using Conventional and Deep Learning Approaches.**  
 Supervisor: Prof. Priti Sehgal  
Th26367

*Contents*

1. Introduction 2. Theoretical basis 3. Security of biometric system 4. Mitigating replay attack 5. Mitigating replay attack and database attack 6. Deep learning perspective for iris recognition 7. Conclusion and future work. Bibliography and List of publications.

## EDUCATION

59. CHAUHAN (Sonika)

**Ideas of Diversity and Social Justice in the Preparation of Teachers.**

Supervisor: Prof. Poonam Batra

Th 26410

*Contents*

1. Theoretical Underpinnings 2. Literature Review 3. Three Methodology 4. Diversity and Social Justice: Ideas, Images and Constructs 5. Nuanced Notions of Diversity and Social Justice 6. Preparing Prospective Teachers for Diversity and Social Justice: Avowing Possibilities 7. Concluding thoughts. References and Appendix.
60. डिंपल कुमारी  
**जेंडर-बाइनरी व्यवस्था के संदर्भ में ट्रान्सजेंडर समुदाय एवं शैक्षिक अनुभवों और यथार्थ का अध्ययन.**  
 निर्देशिका: डॉ. डी. परिमला  
Th 26018

*विषय सूची*

1. पृष्ठभूमि 2. बुनियादी अवधारणाएँ एवं ऐतिहासिक पृष्ठभूमि 3. साहित्य समीक्षा 4. संपादित शोध की अनुसंधान पद्धति की रूपरेखा 5. आंकड़ों का विश्लेषण 6. विवेचना एवं निष्कर्ष. संदर्भ सूची .
61. GUPTA (Priya)  
**An Exploratory Study of the Scientific Creativity amongst School Children.**  
 Supervisor: Dr. Yukti Sharma  
Th 26467

*Contents*

1. Introduction 2. Conceptual Framework 3. Review of Related Literature 4. Research Design 5. Data Analysis 6. Discussion, Conclusion, Education Implications and suggestions for Futher Research. Bibliography and Appendics.
62. KANWAR (Sahasini)  
**Teachers' Notions of Quality in Early Childhood Education.**  
 Supervisor: Prof. Namita Ranganathan  
Th 26412

*Contents*

1. Introduction to Early Childhood Education 2. Perceptions and Vision area Experts 3. Teachers' Conceptions of Quality 4. School Observation and Best practices 5. Universal and Contextual Dimensions of Quality in Early Childhood Curricula 6 Synthesis of key findings and implications for field Practice. Photo Journey and Bibliography.
63. रावत (बीरिन्द्र सिंह)  
**स्कूली हिन्दी भाषा-शिक्षण के संदर्भ में आलोचनात्मक शिक्षणशास्त्र के उपयोग की संभावनाओं का अध्ययन.**  
 निर्देशक: प्रो. ऋतु बाला और डॉ. राघवेंद्र प्रपन्न  
Th 26411

*विषय सूची*

1. भूमिका 2. आलोचनात्मक शिक्षणशास्त्र: दर्शन से शिक्षणशास्त्र तक 3. शोध-पद्धती 4. आंकड़ों की प्रस्तुति और उनका विश्लेषण 5. संभावनाओं के लिए सूत्र साइट्स 6. हिन्दी -भाषा शिक्षण में आलोचनात्मक शिक्षा के उपयोग की संभावनाएँ. संदर्भ सूची और परिशिष्ट.

64. साधना कुमारी  
**विकलांगता के अनुभव :आलोचनात्मक विकलांगता अध्यत्र के परिपेक्ष्य से .**  
 निर्देशक : डॉ .प्रीति विवेक मिश्रा  
Th 26409

#### *विषय सूची*

1. शोध की अभिप्रेरणाएँ एवं अध्यायाओं का व्यवस्थापन 2. संबन्धित साहित्य की समीक्षा 3. शोध पद्धति 4. आलोचनात्मक जीवन इतिहास विश्लेषण 5. आलोचनात्मक शोध की अनुभविक यात्रा: एक आत्म चिंतनशील टिप्पणी. संदर्भ सूची। शब्द कोश और परिशिष्ट.

65. SHARMA ( Bhageshwari)  
**Student Activism, Social Media and Political Education in Indian Democracy.**  
 Supervisor: Prof. Pankaj Arora  
Th 26408

#### *Contents*

1. Introduction 2. Political Education and Student activism 2B. Student Activism in Indian Democracy 3. Social Media and Democracy 4(A). Design and Methodology of the Study 4(B). Overall Analysis 5. Summary and Conclusion. References and Appendices.

66. VIJITHA RAJAN  
**Interlacing Constructs of Migration, Childhood and Education: An Ethnographic Inquiry into everyday lives of Migrant Children.**  
 Supervisor: Prof. Poonam Batra  
Th 26019

#### *Contents*

1. Migration, Children and Education in India 2. Migration, Childhood and Education: Theories and interfaces 3. Childhoods on the margins, Educational Imaginations and State-NGO Partnership 4. Methodological Leanings and Learning's 5. Living, working, playing and Making Sense of Place 6. Education of Migrant Children: Aspirations, Perceptions and Experiences 7. NGOs, Migrant Childhood and Education 8. Migrant Childhoods and Education Inclusion. References and annexures.

## Electronic Science

67. SHARMA ( Neetika)

### **Modeling and Simulation of Ballistic Transport in Nanodimension Heterostructure**

Supervisor: Dr. Jyotika Jogi

Th 26504

#### *Contents*

1. Introduction-Nano-Dimensional Heterostructure and Charge Transport 2. Mobility Degradation in Nano-Dimensional InAlAs/InGaAs HEMT 3. Scattering Limited Electron Transport in  $\text{In}_{0.52}\text{Al}_{0.48}/\text{In}_{0.53}\text{Ga}_{0.47}$  AS nno-Dimensional Single Heterostructure 4. Numerical Simulation of Ballistic Effects at Low Temperatures 5. Transformation in Charge Transport-Form diffusive to Ballistic at Cryogenic Temperatures 6. conclusions and Future Scope of Work. Reprint of Publication.

### Electronics

67. DHINGRA (Vishal)  
**Studies on Gas Sensing Properties of Graphene Oxide Post Tailoring Through Sonication and Nanostructured Catalyst.**  
 Supervisor: Prof. Amit Garg  
Th25769

#### *Contents*

1. Introduction to gas sensing 2. Synthesis, characterization and gas sensing techniques 3. Sonication effect on the gas sensing performance of grapheme oxide films 4. Room temperature  $\text{SO}_2$  and  $\text{H}_2$  gas sensing using hydrothermally grown ZnO nanorod composite films 5. Gas sensing performance of silver nanoparticles decorated grapheme oxide 6. Conclusion and future work and Reprint of publications.

### ENGLISH

68. WASON (Sakshi)  
**Surveillance and Pictorial Representation in Post independent India.**  
 Supervisor: Prof. Christel R. Devadawson  
Th 26363

#### *Contents*

1. Introduction 2. Recalling the Partition of India 3. Re-Visiting the Emergency in India-1975-77 4. Retrieving the Anti-Sikh Riots of 1984 5. Conclusion, Bibliography and Appendix.

### GEOGRAPHY

69. DAS (Suman)

**Assessment of Landscape Risk and Disaster Management Strategies in Mandakini Valley Uttarakhand.**

Supervisor: Prof. Ashis Kumar Saha  
Th 26333

*Contents*

1. Introduction 2. Geographical profile of the study area 3. Preparation of landslide hazard and risk database 4. Landslide hazard assessment 5. Landslide risk assessment 6. Landslide disaster management strategies. Summary and conclusion. References. Appendix: Questionnaire.

70. HAQUE (Md. Senaul)  
**Environment, Exposure and Diseases: An Epidemiologic Assessment of Urban Health in Kolkata.**  
Supervisor: Dr. Pankaj Kumar and Prof. R.B. Singh  
Th 26335

*Contents*

1. Introduction 2. Geographical profile of the study area 3. Air quality assessment in Kolkata 4. Air pollution and exposure scenario in Kolkata 5. Exposure and health assessment in Kolkata 6. Sustainable measures and policies for a healthy city living 7. Summary and conclusion. Selected Bibliography. Annexures.

71. MONDAL (Biswajit)  
**Geospatial Analysis of Mangrove Vegetation in the Coastal Region of West Bengal.**  
Supervisor: Prof. Ashis Kumar Saha and Dr. Anirban Roy  
Th 25984

*Contents*

1. Introduction 2. Geographical profile of the study area 3. Mapping mangrove vegetation 4. Spatio-temporal pattern of change in Mangrove Vegetation 5. Dynamics of shoreline change 6. Coastal Mangrove vulnerability assessment 7. People's perception on mangrove depletion 8. Mangrove conservation plans. Summary and conclusions. References. Appendices.

72. RASHMI  
**Land use Planning and Livelihood Options in the Flood Affected Region of Saran Plain.**  
Supervisor: Dr. Pankaj Kumar  
Th 26332

*Contents*

1. Introduction 2. Geographical profile- saran plain 3. Land use cover dynamics 4. Flood vulnerability mapping 5. Impact of flood on livelihood 6. Integrated land use planning for agriculture 7. Summary and conclusion. Selected bibliography. Appendix.

73. ROY (Nikhil)  
**Self-Organised Criticality in River Bank Failure: A Case Study of Brahmaputra River System in Assam.**  
Supervisor: Dr. B.W. Pandey  
Th 26334

## Contents

1. Introduction 2. Study area 3. Self-organized critically (SOC) in Brahmaputra river system 4. Spatio- Temporal analysis of flood hazard in Majuli island 5. Changing geographies of Majuli island 6. Implication of river bank failures in Majuli island 7. Measures of flood and riverbank erosion management for river Brahmaputra 8. Summary and conclusion. Selected bibliography. Appendices. Publication.

## हिंदी (HINDI)

74. अंकित अभिषेक  
हिंदी महिला कथाकारों के उपन्यासों में सत्ता विषयक द्वंद का स्वरूप (सन् 1995 से 2010 ई. तक)।  
निर्देशक : प्रो. मोहन  
Th 26326

### विषय सूची

1. सत्ता परिभाषा और स्वरूप 2. सामाजिक संरचना और सत्ता विषयक द्वंद का स्वरूप 3. अस्मितामूलक हिंदी उपन्यासों में चित्रित सत्ता और स्त्री का द्वंद 4. प्रमुख हिंदी महिला कथाकारों के उपन्यासों में अभिव्यक्त सत्ता विषयक द्वंद का स्वरूप 5. हिंदी महिला कथाकारों की भाषा एवं शिल्पगत विशेषताएं । उपसंहार। संदर्भ ग्रंथ सूची।

75. आर्यन (राहुल राज)  
राष्ट्रीय जागरण का प्रकल्प और प्रेमचंद की पत्रकारिता (संदर्भ, माधुरी, मर्यादा, हंस और जागरण, पत्रिका) (समय 1921-1936)।  
निर्देशक : प्रो. मोहन  
Th 26316

### विषय सूची

1. राष्ट्र, राष्ट्रीयता, राष्ट्रवाद का विमर्श 2. आधुनिकता : जीवन शैली और संस्कार के प्रश्न 3. राष्ट्रीय जागरण, ब्रिटिश साम्राज्यवाद और स्वाधीनता 4. राष्ट्रीय जागरण और सामाजिक सद्भाव की समस्याएँ 5. राष्ट्रीय जागरण और साहित्य के मुख्य सवाल। उपसंहार। संदर्भ ग्रंथ सूची।

76. नायक (ममता)  
भारतेन्दु और हरिऔध के साहित्य में स्त्री चिंतन का तुलनात्मक अध्ययन।  
निर्देशिका : डॉ. रजत रानी आर्य

Th 26327

*विषय सूची*

1. स्त्री चिंतन की अवधारणा 2. भारतेन्दु हरिश्चन्द्र : व्यक्तित्व एवं रचना संसार 3. भारतेन्दु के साहित्य में स्त्री-चिंतन 4. हरिऔध के साहित्य में स्त्री-चिंतन 5. भारतेन्दु और हरिऔध का स्त्री-चिंतन: कुछ तुलनात्मक संदर्भ। उपसंहार। संदर्भ ग्रंथ सूची।

77. पाण्डेय (सुधीर)

**शास्त्रीय संगीत के परिप्रेक्ष्य में भक्तिकालीन हिंदी काव्य का अनुशीलन ।**

निर्देशक : प्रो. चन्दन कुमार

Th 26328

*विषय सूची*

1. भक्तिकालीन हिंदी काव्य - एक परिचय 2. साहित्य और संगीत 3. भक्तिकालीन काव्य में सांगीतिक प्रेरणा तत्त्व एवं संगीत सम्बन्धी उल्लेख 4. संगीत सिद्धांतों के निकष पर भक्तिकालीन काव्य 5. भक्तिकालीन भाषा-शिल्प का संगीतपरक अध्ययन। उपसंहार। संदर्भ ग्रंथ सूची।

78. वर्णवाल (मुकेश कुमार)

**समकालीन हिंदी रंगमंच और राष्ट्रीय नाट्य विद्यालय।**

निर्देशक : डॉ. द्विवेदी आनंदप्रकाश शर्मा

Th 26329

*विषय सूची*

1. रंग-प्रयोगों की परंपरा और उसका समकालीन परिप्रेक्ष्य 2. हिंदी रंग-प्रयोगों की परंपरा के परिप्रेक्ष्य में राष्ट्रीय नाट्य विद्यालय (रानावि)की भूमिका 3. समकालीन हिंदी रंग-प्रयोग के परिप्रेक्ष्य में रानावि की भूमिका 4. समकालीन हिंदी रंग-प्रयोग के परिप्रेक्ष्य में रानावि से इतर नाट्य दलों की भूमिका 5. समकालीन हिंदी रंग-प्रयोग और हिंदी केक मौलिक नाटकों का अन्तर्संबंध। उपसंहार। संदर्भ ग्रंथ सूची।

79. मणि कुमार

**शंकरदेव की नाट्य-शैली और लोकनाट्य परंपरा।**

निर्देशक : प्रो. चन्दन कुमार

Th 26324

*विषय सूची*

1. शंकरदेव की वैचारिक भावभूमि 2. लोकनाट्य: परंपरा और प्रयोज 3. शंकरदेव का नाट्य संसार 4. शंकरदेव के नाटकों का शिल्प-विधान 5. वर्तमान परिदृश्य और शंकरदेव की नाट्यशैली। उपसंहार। संदर्भ ग्रंथ सूची। परिशिष्ट।

80. मिश्र (आदित्य कुमार)

**असम की लोक कला परम्परा और मुखौटा कला।**

निर्देशक : प्रो. चन्दन कुमार  
Th 26322

*विषय सूची*

1. लोक परम्परा और लोक कला की अवधारणा 2. लोक कला परम्परा और असम का भक्ति आंदोलन 3. सत्र परम्परा और मुखौटा कला 4. मुखौटा कला : विविध आयाम 5. मुखौटा कला और भारत बोध। उपसंहार। परिशिष्ट। संदर्भ ग्रंथ सूची।

81. मिश्रा (कुमारी प्रीति)  
**त्रिलोचन का काव्य : कृषक भावभूमि और अवधी संस्कृति के निकष पर।**  
निर्देशिका : प्रो. कुमुद शर्मा  
Th 26320

*विषय सूची*

1. त्रिलोचन का काव्य संसार और लोकजीवन 2. अवधी संस्कृति की साहित्यिक परंपरा : उद्भव और विकास 3. अवधी लोकसंस्कृति में कृषक भावभूमि तथा त्रिलोचन का साहित्य 4. त्रिलोचन की काव्ययात्रा तथा अवध के किसान 5. त्रिलोचन की कविता : नवानुशीलनए साहित्यिक प्रयोजन और उद्देश्यपरकता। उपसंहार। संदर्भ ग्रंथ सूची।

82. यादव (क्षमा)  
**संजीव के कथा साहित्य में संक्रमणशील समाज के उभरते नए सवाल।**  
निर्देशिका : प्रो. कुसुमलता मलिक  
Th 26321

*विषय सूची*

1. संक्रमणशील समाज का अवधारणात्मक अध्ययन 2. संजीव का रचनाक्रम ओर समकालीन कथा साहित्य 3. संजीव का कथा साहित्य और आदिवासी समाज 4. संजीव का कथा साहित्य और किसान-मजदूर समाज 5. संजीव का कथा साहित्य और स्त्री 6. संजीव का शिल्प और रचना प्रक्रिया। उपसंहार। संदर्भ ग्रंथ सूची।

83. यादव (सत्यवन्त)  
**समकालीन हिंदी कविता की भाषा (विशेष संदर्भ : सर्वेश्वरदयाल सक्सेना, रघुवीर सहाय और धूमिल)**  
निर्देशक : प्रो. मोहन  
Th 26317

*विषय सूची*

1. समकालीनता का अर्थ और स्वरूप 2. समकालीन कवि : व्यक्तित्व और कृतित्व 3. सर्वेश्वरदयाल सक्सेना की भाषा 4. रघुवीर सहाय की भाषा 5. धूमिल की भाषा। उपसंहार। संदर्भ ग्रंथ सूची।

84. ललन कुमार  
**उन्नीसवीं सदी में हिंदी भाषा संबंधी विवाद और अयोध्या प्रसाद खत्री।**  
निर्देशक : प्रो. मोहन  
Th 26319



*विषय सूची*

1. उन्नीसवीं सदी के पूर्वार्द्ध में भाषा-चिंतन का स्वरूप 2. उन्नीसवीं सदी के उत्तरार्द्ध में भाषा-चिंतन का स्वरूप 3. भाषा-चिंतन की दृष्टि से आयोध्या प्रसाद खत्री के साहित्य का आलोचनात्मक परिचय 4. खड़ी बोली का प संबंधी विवाद और अयोध्या प्रसाद खत्री 5. अयोध्या प्रसाद खत्री के भाषा-चिंतन का मूल्यांकन। उपसंहार। संदर्भ ग्रंथ सूची।

85. शीतल कुमारी

**हिंदी के ऐतिहासिक उपन्यासों में स्त्री-चेतना (संदर्भ : आचार्य चतुरसेन शास्त्री, वृन्दावनलाल वर्मा, हजारी प्रसाद द्विवेदी और अमृतलाल नागर के उपन्यास)।**

निर्देशक : प्रो. श्यौराज सिंह

Th 26325

*विषय सूची*

1. ऐतिहासिक उपन्यास : अवधारणा, स्वरूप एवं विकास 2. स्त्री-चेतना : अवधारणा एवं स्वरूप 3. आचार्य चतुरसेन शास्त्री के ऐतिहासिक उपन्यासों में स्त्री-चेतना 4. वृन्दावनलाल वर्मा के ऐतिहासिक उपन्यासों में स्त्री-चेतना 5. हजारी प्रसाद द्विवेदी के ऐतिहासिक उपन्यासों में स्त्री-चेतना 6. अमृतलाल नागर के ऐतिहासिक उपन्यासों में स्त्री-चेतना। उपसंहार। संदर्भ ग्रंथ सूची।

86. सविता रानी

**इक्कीसवीं सदी के हिन्दी उपन्यासों में युवा चेतना का अध्ययन।**

निर्देशक : प्रो. श्यौराज सिंह

Th 26323

*विषय सूची*

1. चेतना का सामान्य स्वरूप और युवा चेतना 2. हिंदी उपन्यास में युवा चेतना की स्थिति और स्वरूप 3. इक्कीसवीं सदी के हिंदी उपन्यास में युवा चेतना : परिवर्तन के कारक-तत्व 4. इक्कीसवीं सदी के हिंदी उपन्यास और युवा चेतना : विभिन्न संदर्भ में 5. इक्कीसवीं सदी के हिंदी उपन्यास में युवा चेतना की अभिव्यक्ति का स्वरूप। उपसंहार। संदर्भ ग्रंथ सूची।

87. सिंह (कृतिका)

**भक्तिकाल विषयक आलोचनात्मक प्रतिमानों की निर्माण प्रक्रिया का अध्ययन।**

निर्देशक : प्रो. अनिल राय

Th 26318

*विषय सूची*

1. भक्तिकाल और आलोचनात्मक प्रतिमान 2. भक्तिकाल विषयक औपनिवेशिक 3. औपनिवेशिक आलोचनात्मक प्रतिमानों से प्रतिरोध और नवजागरण 4. भक्तिकाल विषयक मार्क्सवादी आलोचनात्मक प्रतिमानों की निर्माण प्रक्रिया 5. भक्तिकाल का उत्तर-आधुनिक। उपसंहार। संदर्भ ग्रंथ सूची।

88. सिंह (रघुनन्दन)

स्वतंत्रता पूर्व हिन्दी जनक्षेत्र का निर्माण और स्त्री (सन्दर्भ : बालाबोधिनी और स्त्री दर्पण)।

निर्देशक : डॉ. विनोद तिवारी

Th 26330

*विषय सूची*

1. हिन्दी जनक्षेत्र के निर्माण की प्रक्रिया 2. भारतेन्दु युगीन पत्र-पत्रिकाएँ और बालाबोधिनी 3. बालाबोधिनी और स्त्री प्रश्न 4. स्वतंत्रतापूर्व स्त्रियों की राजनैतिक स्थिति और स्त्री दर्पण 5. स्वतंत्रता पूर्व स्त्री चेतना का विकास और स्त्री दर्पण। उपसंहार। संदर्भ ग्रंथ सूची।

## HISTORY

89. बबिता

**बौद्ध मूर्तिकला और स्थापत्य का सामाजिक परिपेक्ष्य :ईसवी पूर्व तीसरी शताब्दी से चौथी शताब्दी ईस्वी.**

निर्देशक : प्रो .सीमा बावा

Th 26444

*विषय सूची*

1. बौद्ध मूर्तिकला और स्थापत्य काला में दान परंपरा तथा सामाजिक प्रभाव (ईसा पूर्व तीसरी शताब्दी से चौथी शताब्दी ईस्वी 2. बौद्ध मूर्तिकला में धार्मिक रीतिरिवाजों का निरूपण 3. स्तूपों पर उत्कीर्ण जातक कथाओं का सामाजिक निरूपण 4.चयनित साधनों का धार्मिक एवं सांस्कृतिक महत्व: कुबेर, यक्ष, नाग, गंधर्व, अप्सरायें, किन्नर आदि के विशेष संदर्भ में. निष्कर्ष .संदर्भ ग्रंथ सूची . परिशिष्ट और दान दाता सारणी तथा फोटो.

90. MISHRA (Shishir Kumar)

**Cult of the Siddha in Early Medieval Bihar c. A.D. 600-1300.**

Supervisor: Prof. Seema Bawa

Th 26443

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1. Religion and Identity 2. Language and Literature of the Siddha Tradition 3. Symbolism and Iconography of the Siddha 4. Reflection of State in Siddha Narratives 5. Gender dynamics: the Living Tradition of Siddha. Conclusion. Bibliography and Images and Map.

91. RAJIST PRADEEP

**Irrigation and Agriculture Development in the Middle United Provinces (1860-1952): A Study.**

Supervisor: Prof. S.Z.H. Jafri

Th 26447

*Contents*

1. Introduction 2. British land Revenue System and its Impacts on Agriculture and Irrigation 3. Irrigation and Agriculture system Before the British Rule 4. Canal Development Planning and its impact on Agriculture till 1878 5. Canal Development Planning and its impact on Agriculture Till 1903 6. Irrigation System and Rural Development 7. Planning of Modernisation and development of irrigation System 8. Politics of Canal and Agriculture System 9. Conclusion. References.

92. VERMA ( Sandeep Kumar)  
**Aspects of the Urban History of A French Colonial City: Pondicherry, 1674-1793.**  
 Supervisor: Prof. Amar Farooqui  
Th 26445

*Contents*

1. Introduction: Pondicherry in the Historical Imagination 2. Political Economy of Pondicherry: Compagnie des Indes and Indiennes 3. Political Economy of Pondicherry Compagnie Des indes and Indiennes 4. Pondicherry: Agrarian Economy, Hinterland and Society 5. Urban Development: Transformation of Pondicherry from a Hamlet to an Early Colonial City 6. Fortification and the city 7. Commercial and Social indigenous Elites: Power and Politics in a Early Modern Colonial Port City 8. Conclusion. Bibliography and Appendices.

93. YUSRA FAROOQUI  
**Transmission of Knowledge and Centres of Education in the Kingdom of Awadh: Upto C. 1850s.**  
 Supervisor: Prof. Saiyid Zaheer Husain Jafri  
Th 26448

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1. Introduction: the Settlements of the Migrant Elites in the Upper Gangetic Valley and the establishment of Indo-Islamic Culture 2. Important Centres of the Dissemination of Knowledge in the region 3. Establishment of the Shia divines and Scholars at Lucknow and other small towns during the nawabi regime 4. Emergence of the Movements of Puritanism (*Wahabis*) against the local Customs in the Society 5. Transmission of the Traditional Forms of Knowledge like Calligraphy, book Binding and the Making of the illustrated Manuscripts etc. Conclusion and Bibliography.

94. ज़ीनत जहाँ  
**रोहिलखंड और पश्चिमी उत्तर प्रदेश में बौद्धिक परम्पराएँ और ज्ञान के केंद्र .**  
 निर्देशक : प्रो .एस .जेड .एच .जाफरी  
Th26446

*विषय सूची*

1. रोहिलखंड का भूगोल तथा आरंभिक इतिहास 2. उत्तर भारत की मध्यकालीन बौद्धिक परम्पराएँ 3. पश्चिमी उत्तर प्रदेश और रोहिलखंड में शिक्षा के केंद्र 1801-1920 4. ब्रिटिश शिक्षा नीति और साथनीय बौद्धिक परम्पराएँ तथा 1857 का विद्रोह 5. फिरंगी महल, देवबंद, अलीगढ़ और परम्पराओं की आधुनिकता 6. राष्ट्रीय आंदोलन के दौरान जन- राजनीति, बौद्धिक परम्पराएँ तथा बदलते आयाम. उपसंहार. परिशिष्ट और संदर्भ ग्रंथ सूची.

## HOME SCIENCE

95. BANSAL (Sonia)  
**Assessment of Skill Development Initiatives of Industrial Training Institutes (ITIs) in Delhi: Stakeholders' Perspective.**  
 Supervisors: Dr. Meenakshi Mittal and Puja Gupta  
Th26419

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1. Introduction 2. Review of Literature 3. Methodology 4. Findings and Discussion 5. Summary and Conclusion. References and Annexures.

96. BHATIA (Aditi)  
**Documentation and Revival of Himroo Textiles.**  
 Supervisors: Dr. Simmi Bhagat and Ritu Mathur  
Th26417

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1. Introduction 2. Review of literature 3. Material and methods 4. Results and Discussion 5 Summary and Conclusion. Bibliography. List of Publication and Appendices.

97. GUPTA (Aakriti)  
**Association of Iron, Folic Acid and Vitamin B<sub>12</sub> Deficiencies with Anemia Amongst Rural Girls (12-19 Years).**  
 Supervisors: Prof. Priti Rishi Lal and Lokesh Kumar Sharma  
Th26416

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1. Introduction 2. Review of literature 3. Methodology 4. Results 5. Summary and Conclusion. Annexure and Publications.

98. GUPTA (Deepthi)  
**Exploring the Lives of the Children of the Agariya Community Working in the Salt Pans of Gujarat.**  
 Supervisors: Prof. Bhanumathi Sharma and Vinita Bhargava  
Th26415

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1. Introduction 2. Constructing and reconstructing childhood 3. Various colours of childhood in India 4. Method 5. Results 6. Conclusion. References. Glossary and Appendix.

99. MEHLAWAT (Urvashi)  
**Complementary Feeding Practices Among Urban Infants and Young Children (6-12 Months) Across Different Socio-Economics Strata in Delhi NCR: A Contextual Evaluation.**  
 Supervisors: Prof. Tejmeet Kaur Rekhi and Prof. Seema Puri  
Th26414

*Contents*

1. Introduction 2. Review of literature 3. Methodology 4. Results and Discussion 5. Summary and Conclusion . Bibliography. Annexures and List of Publication

100. PURI (Vardhna)

**Lives of Children in Migrant Families in Nizamuddin Basti in Delhi.**

Supervisors: Prof. Vinita Bhargava and Prof. Bhanumathi Sharma

Th26413

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1. List of tables and figures 2. Method 3. Results and Discussion 4. Conclusion. References. Glossary and Appendices.

101. SINGH (Hena)

**Arsenic Concentration in Rice (Oryza Sativa) and Its Fractions Produced in Trans Indo-Gangetic Plain of India, Its Source and Effect of Cooking.**

Supervisor: Dr. Sangeeta Goomer

Th26418

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1. Introduction 2. Review of literature 3. Materials and Methods 4. Results and Discussion 5. Summary and Conclusion. Bibliography and Annexures.

## INSTITUTE OF INFORMATICS AND COMMUNICATION

102. BIRWAL (Amit)

**Design and Development of Compact Antennas for Internet of Things(IoT) Based Systems**

Supervisors: Dr. Sanjeev Singh and Prof. Binod K. Kanaujia

Th 26511

*Contents*

1. Introduction: Internet of Things(IoT) Based Systems 2. Antenna Requirement for IoT Based Systems 3. Planner Antenna Design Technology 4. Antenna Design for Different use Cases 5. Circular Polarized (CP) Antenna for IoT Application 6. MIMO Antenna for IoT Application 7. Frequency Selective surface for IoT Application 8. Conclusion & Future Scope of Work. Bibliography.

103. SUNIL KUMAR

**Development of New Cryptographic Systems Using Diffusion Models Based on Interwining Logistic Map, Coupled Map Lattice and Brownian Motion**

Supervisor: Dr. Sanjeev Singh

Th 26510

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1.Introduction 2. Performance comparison of chaotic systems with the proposed encryption algorithm 3. A Secured Cryptographic model using intertwining logistic map 4. Coupled map lattice based cryptographic model for image security 5. Cryptographic model based on Brownian Motion 6.Conclusion and Bibliography.

## INSTRUMENTATION AND CONTROL ENGINEERING

104. CHAUHAN (Urvashi)  
**Simulation, Analysis and Control of Renewable Energy based Systems.**  
 Supervisors: Prof. Asha Rani and Dr. Bhavnesh Kumar  
Th 26453

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1. Introduction 2. Literature Review 3. Mathematical Modeling of Solar PV System 4. Research Methodology 5. Results and Discussion 6. Conclusion and Future Scope. List of Publication and Bibliography.

105. PATAHK (Diwaker)  
**Performance Analysis and Control of Renewable Energy System.**  
 Supervisor: Prof. Prerna Gaur  
Th 25801

### *Contents*

1. Introduction 2. Mathematical modeling of wind and solar energy systems 3. Analysis of fractional order nonlinear-PID pitch angle controller 5. Analysis of fractional order nonlinear-PID based maximum power extraction method 6. A Su do Ku based shade dispersion for maximum power enhancement of PV array 7. Conclusion and future scope. References, Appendix and List of publications.

106. SINGH (Priyanka)  
**Adaptive Control of Renewable Energy System.**  
 Supervisors: Prof. Prerna Gaur and Prof. A.P. Mittal  
Th 25802

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1. Introduction 2. Photovoltaics technology and MPPT techniques 3. Boost converter topology and mathematical modelling of IM 4. Standalone photovoltaic water pumping system with DTC drive 5. Investigation and modelling of battery connected solar powered water pumping system with improved direct torque control scheme for varying atmospheric conditions 6. Adaptive bidirectional power flow control of grid interfaced solar water pumping system with improved MPPT technique and modified SVM-DTC 7. Conclusion and future scope. Bibliography. Appendix. List of publications. Author bio-data.

107. DINESH  
**Administrative Justice and its Reform: Replacing Administrative Tribunals By Administrative Courts.**  
 Supervisor: Prof. (Dr.) Alka Chawla  
Th 25702

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1. Introduction 2. Background and Historical Aspects 3. Comparative Legal Position: Administrative Adjudicatory Aspects 4. Pilot Study on effects of Amalgamation: Telecom Disputes Settlement Appellate Tribunal (TDSAT) 5. Structural Issues with the Tribunals: Proposing a Case for Replacement with Courts 6. Conclusion: Way forward and Suggestions. Bibliography and Appendix.

108. HINAMTE (IRWIN LALMUANPUJII)  
**Protection of Tradition Cultural Expressions of Indigenous Peoples: A Comparative Study.**  
 Supervisor: Prof. (Dr.) V.K. Ahuja  
Th 25700

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1. Introduction 2. Intellectual Property-Concept and Overview 3. Traditional Cultural Expressions (Tees): Historical and Conceptual Perspective 4. Protection of Rights of Indigenous People: Issues and Challenges 5. Protection of Traditional Cultural Expressions: National and international Perspective 6. Protection of Tradition Cultural Expressions: Experience of Australia, Philippines and Africa 7. Conclusion. Bibliography and Annexure.

109. SRIVASTAVA (Mitali)  
**Laws Relating to Building and Other Construction Workers in India with Special Reference to Women Construction Workers in Delhi: Problems and Perspective..**  
 Supervisor: Prof.  
Th 25703

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1. Gauging the Position of Women Working in the Construction Industry Vis-A-Via the Unorganized Sector: An Introduction 2. Discussing Rights of the Women working in the Construction Industry: A Constitutional Dialogue 3. Navigating the legal Landscape Relating to Rights of Building and Other Construction Workers: An Analysis of Recent changes in Labour Laws 4. Decoding the Enforcement of Laws Relating to the Socio-Legal Status of Women Construction Workers in Delhi: An Empirical Study 5. Scrutinizing the Deplorable State if Women Workers in the Construction Industry: A Gender Bases Perspective 6. Conclusion and Suggestions. Bibliography and Annexure: Questionnaire.

110. DUGGAL (Muskan Kaur nee Muskan)  
**Study to Analyze the Impact of Country Risk Ratings on Stock Market Volatility in SAARC Nations.**  
 Supervisor: Prof. Madhu Vij  
Th26441

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1. Introduction 2. Review of Literature 3. Theoretical framework 4. Data collection and research methodology 5. Data analysis and results 6. Data analysis and results 7. Data analysis results 8. Conclusion, Implication and recommendations. References. Appendices and List of publications and conference presentations.

111. KAPURIA (Cheshta)  
**Reforming India's Agriculture: Crop Diversity, Financial Disparity Financial Disparity, and Climate Volatility.**  
 Supervisor: Prof. Simrit Kaur  
Th26439

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1. Introduction 2. Crop diversification and crop disposition in India: an Inter-state analysis 3. Microeconomic determinants of crop diversification in rural India 4. How Institutionalised is India's rural credit across farm and non-farm households: a public policy perspective 5. Determinants of financial inclusion in rural India: does gender matter? 6. Summary, Conclusion and policy implications References and appendices.

112. SEHRAWAT (Kanchan)  
**Women and Finance in Contemporary World: Case of Select Indian Cities.**  
 Supervisors: Prof. Madhu Vij and Prof. S.K. Tuteja  
Th26442

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1. Introduction 2. Review of Literature 3. Research methodology 4. Data analysis and findings (I): descriptive statistics and gender comparison 5. Data analysis and findings (II): financial wellbeing model using PLS –SEM 6. Data analysis and findings (III): extension of PLS-SEM results 5. Conclusion, implications and Recommendations. References and appendices.

113. SRIVASTAVA (Minesh Kumar)  
**Green Adoption and Its Outcomes : Synthesizing Organization and Consumer Perspective.**  
 Supervisor: Prof. Garima Gupta  
Th26438

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1. Introduction 2. An overview of green aspects 3. Green adoption and its impact: organization's perspective 4. Green adoption and its impact: consumer perspective 5. Database and methodology 6. Analysis of findings: organization's perspective 7.



Analysis of findings: consumer perspective 8. Synthesis of organization and consumer perspective 9. Conclusion, implications and Future scope. References and Annexures.

114. SUMEET ANAND  
**Semiotics in Branding and Communication: a Study of Select Industries.**  
 Supervisor: Prof. H.V. Verma  
Th26440

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1. Introduction 2. Review of Literature 3. Research methodology 4. Research analysis 5. Findings and Discussion 6. Limitations and further studies References. Annexures and List of print advertisements.

## MATHEMATICS

115. KUSHAWAHA (Durgesh)  
**Thermo-Solute Natural Convection in Rectangular Enclosures with Newtonian and Nano Fluids using Heat and Mass Lines Techniques.**  
 Supervisor: Dr. Sushil Yadav  
Th 26356

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1.Introduction 2. Mathematical formulation and solution procedure 3. Thermo solute natural convection rectangular enclosure for low Prandtl number fluids 4. Thermo solute natural convection in space enclosure under Lorentz force utilizing Newtonian fluids 5. Thermo solute natural convection in square enclosure with inclined magnetic field utilizing magnetic and non-magnetic nanofluids 6. Thermo solute natural convection in titled enclosure with non-uniform particle diameter of nanofluid 7. Natural convection in a four-sided lid driven enclosure. Suggestions for future research. References.

116. MALHOTRA (Hari Krishan)  
**Nonuniform Wavelet Frames and Nonuniform Multiresolution Analysis.**  
 Supervisor: Dr. Lalit Kumar  
Th 26360

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1.Introduction 2.  $P^{th}$ - stage nonuniform discrete wavelet frames 3. Unitary extension principle for nonuniform wavelet frames 4. Scaling functions for nonuniform multiresolution analysis 5. Vector-valued nonuniform wavelets. Appendix. References.

117. RANA (Manoj Kumar)  
**New Variants of Continuity of Functions and Multifunctions.**

Supervisor: Dr. Satya Prakash Tripathi  
Th 26359

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1.Introduction 2. Pseudo perfectly continuous functions 3.  $z$ - perfectly continuous functions and their function spaces 4. Upper and lower  $z$ - perfectly continuous multifunctions. References.

118. MATHUR (Harshit)  
**Connectedness, compactness and cut points in terms of  $d_\delta$ -closure operator.**  
 Supervisor: Dr. Davinder Singh  
Th 26357

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1.Introduction 2. A weak form of connectedness induced by  $d_\delta$ -closure 3. A weak form of compactness induced by  $d_\delta$ -closure 4. A form of cut points induced by  $d_\delta$ -closure. References. Indexes.

119. SHEETAL  
**Generalized Open Sets and Selection Principles in (a) Topological Spaces.**  
 Supervisor: Dr. B.K. Tyagi  
Th 26092

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1.Introduction 2. Generalized open sets and related mappings 3. Selective separability 4. Selection principles and (a)-semi-open sets 5. Covering properties by (a)- $\theta$ -open sets. References.

120. SONU RAM  
**Algebraic and Spectral Properties of (m,n)- Paranormal and (m,n)\*-Paranormal Operators.**  
 Supervisor: Prof. Preeti Dharmartha  
Th 26361

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1.Introduction 2. (m,n)- paranormal operators 4. On the Weyl spectrum: spectral mapping theorem and Weyl's theorem for (m,n)-paranormal operators 5. (m,n)-paranormal operators obeying spectral mapping theorem and Weyl's theorem 6. Open questions. References.

121. TRISANDHYA (Pidugu)  
**Design and Analysis of Sensitive Characteristics on Successive Occasions and its Applications.**  
 Supervisor: Dr. Kumari Priyanka and Prof. Ajay Kumar  
Th 26362

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1.Introduction 2. Compulsory and optional randomized response techniques 3. Item sum techniques infusing general classes of estimators 4. Calibration technique aided

with item sum technique 5. Estimation techniques contending non-response 6. Estimation procedures in presence of measurement errors. References.

122. VINEESH KUMAR  
**Soliton Solutions and Modulation Instability Analysis of Certain Nonlinear Evolution Equations.**  
 Supervisor: Dr. Arvind Patel  
Th 26355

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1. Introduction 2. Dark and kink solutions of the generalized ZK-BBM equation by iterative scheme 3. Soliton solutions and modulation instability analysis of the coupled Zakharov Kuznetsov equation 4. Construction of the soliton solutions and modulation instability analysis of a Mel'nikov system 5. Optical soliton solutions and modulation instability analysis of a nonautonomous. References.

123. YADAV (Swati)  
**Uniformly Convergent Numerical Schemes for Time Dependent Singularly Perturbed Turning Point Problems.**  
 Supervisor: Prof. Pratima Rai  
Th 26358

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1. Introduction 2. A hybrid numerical scheme for 1D parabolic singularly perturbed boundary turning point problem 3. Uniformly convergent hybrid scheme for 1D parabolic singularly turning point problem: twin boundary layers 4. Uniformly convergent hybrid scheme for 1D parabolic singularly perturbed interior turning point problem: interior layer 5. Parameter uniform alternating direction hybrid scheme for 2D time dependent singularly perturbed boundary turning point problem 6. Robust fractional step hybrid scheme for 2D time dependent singularly perturbed interior turning point problem 7. Numerical treatment of 1D delay parabolic singularly perturbed turning point problems. Summary. Future Scopes and References.

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124. AGGARWAL (Saurabh)  
**Rational Design and Synthesis of Benzothiazole and Thiazole Derivatives as Novel Neuroprotecting Agents for Evaluation of nNOS Inhibition Activity using *in-vitro* and *in-vivo* Model of Parkinson's disease.**  
 Supervisor: Prof. Pratibha Mehta Luthra  
Th 25811

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1. Introduction and review of literature 2. Design, synthesis and evaluation of benzothiazole and triazole as neuroprotective NOS inhibitors 2.1 Design and synthesis of 2-methyl benzothiazole derivatives as neuroprotecting via nNOS inhibitors using *in-vitro* *in vivo* method 2.2 Design and synthesis of thiazole derivatives as neuroprotecting via nNOS inhibitors using *in-vitro* and *in-vivo* method

3. Experimental methodology and characterization of 2-methyl benzothiazole and thiazole derivatives. List of publication.

125. SHRUTI SHALINI

**Development of Potential Multifunctional Agents from Natural and Synthetic Sources for the Treatment of Alzheimer's Disease: A Detailed *In-Vitro* and *In-Vivo* Investigation.**

Supervisor: Dr. Manisha Tiwari

Th 25805

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1. Introduction 2. Review of literature 3. Aims and objective 4. Development of novel N-(6-methanesulfonyl-benzothiazol-2-yl)-3-(4-substituted-piperazin-1-yl)-propionamide with cholinesterase inhibition, anti- $\beta$ -amyloid aggregation, neuroprotection and cognition enhancing properties for the therapy of Alzheimer's disease 5. Development of potential multifunctional benzothiazole-piperazine hybrid molecules: rational design, synthesis, *in-silico*, *in-vitro* and *in-vivo* assessment 6. Biological evaluation of hydro-alcoholic extract of bacopa monnieri for the treatment of Alzheimer's disease. Summary. Publication. Poster and oral presentations and awards.

126. SINGH (Aayushi)

**Characterizing T cell Dynamics during Mycobacterial infection: Regulation of T Cell Activation and Function by Calcium Homeostasis.**

Supervisor: Prof. K.Natarajan

Th 25812

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1. Review of literature 2. Material and methods 3. Deciphering the role of calcium homeostasis in T cell functions during Mycobacterial infection 4. Bel2 negative regulates protective immune responses during mycobacterial infection 5. Discussion 6. Summary and conclusion. Bibliography. Appendix and list of publication.

## MODERN INDIAN LANGUAGE & LITERARY STUDIES

127. CHAKRABORTY (Apabrita)

**Exploring Indigenous Narrative Pattern in Selected Post-Independence Bengali Novel.**

Supervisor: Dr. Amitava Chakraborty

Th 26433

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1. Deshbhaji Pruvbarti Bangla Upnayas 2. Upniveshor Samayparva 3. Bangla Upnayas 3. Bangladesher Upnyaser Rooprekha 4. Bangla Upnyaser Viklap Kathmo: ekti pracheshdha Upsanghar and Tathyapanji.

128. KAPOOR (Ragini)

**Reconceptualising Eco criticism: Theorising in the Classical Framework of Sangam poems and Kalidasa's Works.**

Supervisor: Prof. D. Uma Devi  
Th 26432

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1. Introduction 2. Indian Aesthetics for Ecological Aesthetics-Meeting Real-World Demands 3. Through the Lens of Nature's Might-A Subjective Approach to Reconceptualising Eco criticism. 4. Sublime as an Ecological Facet-A Communicative Trajectory to Reconceptualise Ecocriticism 5. Theoretics of Doing theory-Writing Back to the Centre 6. Conclusion 7. Bibliography.

129. SINGH ( Manvi)

**Narratives of Suffering and Resistance: Representation of Dalit Women Characters in Select Dalit and Non-Dalit Writings.**

Supervisor: Prof. Govindaswamy Rajagopal  
Th 26434

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130. TUNYI (Setolu)

**Folklore of the Chakhesang Nagas: Transition Between Orature and Print.**

Supervisor: Dr. Urvashi Kuhad  
Th 26435

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1. Introduction 2. Folklore in the context of the world and the community within 3. Folk life of Chakhesang: A Detailed Study 4. Mirroring the Chakhesang Community life Through Folklore 5. Folklore: A Paradigm Shift from Orature to Print. Conclusion and Work Cited.

**MUSIC**

131. भारद्वाज (वीरभद्र)

**सरोद वादन के क्षेत्र में उस्ताद अली अकबर खाँ का योगदान**

निर्देशिका: प्रोफेसर सुनीला कसलीवाल व्यास एवं प्रोफेसर राजीव वर्मा  
Th 26370

*विषय सूची*

1 भारतीय संगीत में सरोद वादन का उद्भव, विकास एवं विभिन्न वादन शैलियाँ 2. मैहर जीएचएआरएनई का इतिहास एवं संगीत परंपरा 3. उस्ताद अली अकबर खाँ का जन्म शिक्षा एवं परिचय 4. उस्ताद अली

अकबर खाँ के सरोद वादन की विशेषताएं 5. उस्ताद अली अकबर खाँ द्वारा निर्मित बंदिशे व उनकी विशेषताएँ 6. उस्ताद अली अकबर खाँ का संगीत के क्षेत्र में वृहत्तर कार्य 7. संगीत विद्यालय की स्थापना व शिष्य परंपरा. उपसंहार. ध्वनि मुद्रित कार्यक्रमों की सूची. चित्री विधी. संदर्भ ग्रंथ सूची.

132. BHAT (Waseem)  
**Gharana Tradition in Kashmiri Sufiana Mausiqi: An Analytical Study**  
 Supervisor: Dr. Shalini Thakur  
 Th 25842

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1. Introduction 2. A geographical and historical overview of Kashmir 2. The music of Kashmir 3. Gharana tradition in sufiana mausiqui 4. Prominent artists of contemporary gharanas of sufiana mausiqui 5. Composition of contemporary sufiana gharanas 6. Interview. Conclusion. Bibliography.

133. MOGHAL (Humaera)  
**Evolution and Development of Folk Musical Instruments of Kashmir and Ladakh.**  
 Supervisor: Prof. Anupam Mahajan  
 Th 26369

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1. Introduction 2. Historical background of Kashmir and Ladakh 2. Cultural and traditional background of Kashmir 3. Cultural and traditional background of Ladakh 4. Folk music instruments of Kashmir 5. Folk musical instruments of Ladakh. Conclusion. Appendix. Bibliography.

134. नायक ( गतिकृष्ण)  
**पंडित शंकर राव व्यास – व्यक्तित्व एवं कृतित्व**  
 निर्देशिका: प्रोफेसर सुनीला कसलीवाल व्यास एवं डॉ० जगबंधु प्रसाद  
 Th 25826

*विषय सूची*

1. जन्म, बाल्यकाल एवं सांगीतिक पृष्ठभूमि 2. पंडित शंकर राव, एक उत्तम व्यवस्थापक एवम संगठनकर्ता 3. पंडित शंकर व्यास एक कुशल वाग्गेयकार 4. पंडित शंकर व्यास का सिने जगत को योगदान 5. . पंडित शंकर व्यास के व्यक्तित्व एवम कृतित्व पर विद्वतजनों के विचार. उपसंहार. चित्रविधी. संदर्भ ग्रंथ सूची.

135. निधि  
**जयपुर घराने की बंदिशों का विश्लेषणात्मक अध्ययन**  
 निर्देशक: प्रोफेसर ओजेश प्रताप सिंह  
 Th 25829

*विषय सूची*

1. हिंदुस्तानी संगीत में घराना 2. ख्याल गायकी का जयपुर घराना 3. जयपुर घराने में प्रचलित विभिन्न बंदिशे 4. जयपुर घराने के प्रमुख कलाकारों के प्रस्तुतीकरण के आधार पर कुछ प्रचलित एवं अप्रचलित बंदिशों का सांगीतिक विश्लेषण. उपसंहार. संदर्भ ग्रंथ सूची.

136. नितिन

**वर्तमान परिप्रेक्ष्य मे हिदुस्तानी शास्त्रीय संगीत मे मूर्च्छना की अवधारणा- एक विवेचन.**

निर्देशिका: प्रोफेसर अल्का नागपाल

Th 25828

*विषय सूची*

मूर्च्छना का ऐतिहासिक विवेचन 2. मूर्च्छना का स्वरूप एवं रागो मे मूर्च्छना का प्रयोग 3। वाध विद्याओ मे . मूर्च्छना का प्रयोग 4. वर्तमान परिप्रेक्ष्य मे मूर्च्छना का प्रयोग। उपसंहार. संदर्भ ग्रंथ सूची.

137. ऋचा रश्मि

**किराना घराने की प्रशिक्षण प्रविधि का विश्लेषणात्मक अध्ययन.**

निर्देशिका: डॉ. सुदीपता शर्मा

Th 26368

*विषय सूची*

1. संगीत शिक्षण पद्धति मे घरानो की भूमिका 2. किराना घराना की वंश परम्पराएँ, गायकी एवं विशेषताएँ 3. किराना घराना के प्रमुख कलाकार -सांगीतिक पृष्ठभूमि एवं संगीत शिक्षण 4. किराना घराने के कलाकारो की प्रयोगधर्मिता और किराना घराने की गायकी की मौलिकता 5. किराना घराने की प्रशिक्षण प्रविधि का विश्लेषण. उपसंहार . संदर्भ ग्रंथ सूची.

138. सिंह (परमिंदर)

**गुरबाणी संगीत गायन मे प्रयुक्त होने वाले संगत वाध्यों पर पुनर्विवेचन- एक विश्लेषणात्मक अध्ययन.**

निर्देशिका: डॉक्टर सुनन्दा पाठक एवं प्रोफेसर शैलेंद्र कुमार गोस्वामी

Th 25830

*विषय सूची*

1. गुरबाणी संगीत का ऐतिहासिक अध्ययन 2. गुरबाणी संगीत मे प्रयुक्त वाध 3. गुरबाणी संगीत को विभिन्न प्रकार के गायन शैलियो मे प्रयुक्त होने वाले वाधो का प्रचार -प्रसार 4. गुरबाणी संगीत मे प्रारयुक्त वाधो के विकास मे विभिन्न संस्थाओ का योगदान 5. विद्वान कीर्तनकार,वादक कलाकारो का साक्षात्कार एवेम उनकी कुछ रिकॉर्डिंग. उपसंहार। संदर्भ ग्रंथ सूची.

139. तिवारी (पूजा)

**हिन्दी -फिल्म संगीत में उपशास्त्रीय संगीत की गायन शैलियों का प्रयोग: एक अधयन**

निर्देशिक: डॉक्टर अनन्य कुमार डे

Th 26472

*विषय सूची*

1. हिन्दी -फिल्म संगीत का संक्षिप्त परिचय 2. उपशास्त्रीय संगीत एवं उस पीआर आधारित प्रमुख गायन शैलियों का परिचय 3. हिन्दी-फिल्मों में प्रयुक्त उपशास्त्रीय संगीत की प्रमुख गेय विधाओं( डुमरी तथा दादरा ) पर आधारित गीतों का विश्लेषणतामक अध्ययन 4. हिन्दी फिल्म संगीत पर उपशास्त्रीय लोक गीत विधाओं का प्रभाव 5. हिन्दी फिल्मों में कुछ प्रमुख संगीत निर्देशिकों का योगदान उपशास्त्रीय संगीत के विशेष संदर्भ में . उपसंहार . संदर्भ ग्रंथ सूची और परिशिष्ट.

140. वर्मा (सिद्धार्थ)

**सितार का इमदादखानी घराना : एक अध्ययन.**

निर्देशक: प्रोफेसर राजीव वर्मा  
Th 26371

*विषय सूची*

1. घराना एवं इटावा परंपरा 2. इमदादखानी घराने के प्रतिनिधि कलाकार एवं उनका योगदान 3. इमदादखानी घराने के प्रमुख कलाकार एवं उनका योगदान 4. इमदादखानी घराने के आधुनिक कलाकार एवं उनका योगदान 5। इमदादखानी घराने के कलाकारों द्वारा रचित कुछ मुख्य बंदिशे/गते। उपसंहार। संदर्भ ग्रंथ सूची.

## OPERATIONAL RESEARCH

141. KHAITAN (Anisha)  
**Multiple Criteria Fuzzy Vehicle Routing Problem: Hybrid Intelligent and Sustainable Approaches.**  
 Supervisors: Prof. Pankaj Gupta and Dr. Mukesh Kumar Mehlawat  
Th26451

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1. Introduction 2. Multiobjective fuzzy green vehicle routing problem with demands split into bags 3. Integrated fuzzy multiple depot green vehicle routing problem with split delivery and vehicle selection 4. Fuzzy vehicle routing problem with driver selection and simultaneous pickup and drop in shared transportation 5 . Multiobjective fuzzy vehicle routing problem for delivery of essential goods using twitter data 6. Integrating driver well-being and the fuzzy vehicle problem: a topic modelling based approach 7. Conclusion and scope for future research. Appendix –A and Bibliography.

142. RINI  
**Inventory Policies with Quality Consideration for Enhanced Customer Satisfaction.**  
 Supervisors: Prof. Chandra K. Jaggi and Prof. Leopoldo Eduardo Cardenas - Barron  
Th26450

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1. Introduction 2. Literature review 3. Inventory models with state transition and warranty cost 4. Inventory strategies considering imperfect rework and environmental issues 5. Optimal policies with quality consideration for deteriorating items 6. Inventory strategies for imperfect production systems 7. Summary and Conclusion. Bibliography. Appendices and List of publications



143. SHARMA (Himanshu)  
**Some Contributions to Marketing Models for Online Businesses.**  
 Supervisors: Prof. Anu Gupta Aggarwal and Dr. Abhishek Tandon  
Th26449

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1. Introduction 2. Assessing E- commerce websites based on website service quality and EWOM 3. Analysing factors that contribution to guest satisfaction and hotel performance 4. Ranking hotels using aspect ratings 5. Credibility assessment and segmentation of online reviewers : the role of review and reviewer characteristics. Conclusion and future scope and Reference.

PERSIAN

144. Shah ( Ibrar Ali)  
**Critical Edition of Rajdarshani of Lala Ganesh Das With Necessary Annotations.**  
 Supervisor: Prof. Rajinder Kumar  
Th 26372

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1. Tareekh Naveesi Farsi dar Quran Nauzad hum Miladi Dar Jammu-O- Kashmir 2. Ahwal-O- Aasar Lala Ganesh das 3. Tasheeh Inteqadi raaj darshani ba Hawashi Lazim 4. Nateeja -e- Gairi 5. Fehrist aalam 6. Munaba-O- Makhiz.

PHILOSOPHY

145. देविंदर  
**ब्रह्मसूत्रभाष्य मे शंकराचार्य द्वारा योगाचार विज्ञानवाद की आलोचना : एक दार्शनिक समीक्षा .**  
 निर्देशिका : डॉ. सोनिया मेहता  
Th26437

*विषय सूची*

1. प्रस्तावन 2. प्रक्रियाओं का विश्लेषण : अद्वैत-वेदान्त दर्शन के संदर्भ मे 3. आचार्य बसुबंधु के दर्शन में प्रक्रियाओं की दार्शनिक समीक्षा 4. आचार्य शंकर द्वारा योगाचार-विज्ञानवाद के दर्शन की आलोचना: दार्शनिक अनुशीलन 5. शंकर के आक्षेप, वसुबंध के उत्तर: एक संवाद . निष्कर्ष और संदर्भ ग्रंथ -सूची

146. JADWANI (Rinki)  
**Speech Acts and the Language of Protest.**  
 Supervisor: Dr. Enakshi Ray Mitra  
Th26436

*Contents*

1. Introduction 2. Reading austin's view of speech-acts: as protest-language 3. Searle's institutional approach to speech acts 4. Speech act theory after Austin Searle 5. Language of protest. Concluding observations and Bibliography.

## PHYSICS AND ASTROPHYSICS

147. INDIRA  
**Pattern Formation in Polymers**  
 Supervisor: Prof. Amita Chandra  
Th 26530

*Contents*

1. Introduction 2. Experimental Techniques 3. Electroless deposition of fractal growth pattern in biopolymer 4. Factors affecting electroless deposition on fractal growth pattern in biopolymer 5. Temperature mediated fractal pattern formation in biopolymer 6. Redox initiated fractal geometries in thermally degraded biopolymer 7. conclusions and future work. Appendix. List of Publication and Conference/Workshop Attended.

148. JAIN (Arohi)  
**Control and optimization of laser Wakefield Acceleration.**  
 Supervisor: Dr. D.N. Gupta  
Th 25754

*Contents*

1. Introduction 2. Physics of Laser-Wakefield acceleration 3. Plasma Guiding Using a Chaperone Pre-Pulse 4. Stimulated Injection in a Stable Wakefield 5. Bump and Single Down-ramp injection 6. Polarization dependent electron injection 7. Laser Chirp effect on electron injection 8. Conclusion and Outlook. References.

149. JAIN (Surbhi)  
**Development of LR-SPR Based Handheld Optical Sensors for Detection of Biological and Gaseous Analytes.**  
 Supervisor: Prof. Monika Tomar  
Th 25740

*Contents*

1. Introduction to Long Range Surface Plasmon Resonance (LRSPR) Based Sensors and Aim of the Present Work 2. Modulation in Refractive Index of Nanostructured SiO<sub>2</sub> Thin Films 3. Long Range Surface Plasmon Resonance Based Biosensor using SiO<sub>2</sub> Nanostructured Thin Film 4. Long Range Surface Plasmons Based NO<sub>2</sub> gas sensor 5. Miniaturized Optical Sensors: Integration of Optical Fibers and

Smartphone with the LRSPR Sensing Structures 6. Conclusion of the thesis and future Scope.

150. JALAN (Priyanka)  
**Probing the Physical state of the Intergalactic Medium and Quasar Environments.**  
 Supervisors: Prof. T. R. Seshadri and Prof. Hum Chand  
Th 25751

*Contents*

1. Introduction 2. Quasar spectroscopic data and techniques 3. Quasar Proximity effect, Over density and anisotropy 4. Quasar environment at high-z and its parametric variation 5. Discovery of new projected quasar pairs 6. Gravitational lensing 7. Summary, Conclusion and Future Prospects. Conclusion.

151. KHURANA (Shilpa)  
**Organic-inorganic Polymer Complexes.**  
 Supervisor: Prof. Amita Chandra  
Th 25742

*Contents*

1. Introduction 2. Experimental Methods: Materials and Characterization 3. PEO Based hybrid electrolytes with in situ formed Silica Using Hydrolytic SOL-GEL Route 4. PVDF-HFP hybrid electrolytes with IN-SITU formed Silica using Non-Aqueous SOL-GEL Route 5. PVDF-HFP Based Hybrid Electrolytes with EX-SITU Added Chemically Modified SILICA 6. Hybrid Electrolytes With EX-SITU Dispersed Structurally Modified SILICA 7. Summary and Future Work. Publications and Conferences.

152. SHARMA (Shweta)  
**Growth and Characterization of KNN Thin Films for Nonlinear Optical Applications and MEMS Devices.**  
 Supervisor: Prof. Monika Tomar  
Th 25753

*Contents*

1. Introduction, Literature Survey and Thesis Objectives 2. Structural and Morphological Properties of Potassium Sodium Niobate (KNN) Thin Films 3. Optical Properties of potassium Sodium Niobate (KNN) Thin Films 4. Electrical Properties of Potassium Sodium Niobate (KNN) thin Films 5. Development of KNN Thin Films based Piezoelectric MEMS Pressure Sensor 6. Fabrication of KNN Thin Film Integrated Air-Bridge based MEMS Micro-capacitors. Conclusion of the Thesis. Scope and suggestions for the Future Work.

153. SUMIT  
**Single Crystal Growth of Low Melting Point Organic Materials by Modified Czochralski and Solution Techniques and their Structural, Electrical and Optical Characterization.**  
 Supervisor: Prof. Binay Kumar and Dr. B.K.Singh  
Th 25752

*Contents*

1. Introduction 2. Literature Survey and Objective of Present Work 3. Experimental Techniques 4. Growth and Characterization of Organic Biphenyl Single Crystal 5. Growth and Characterization of Organic 2-Hydroxybiphenyl Single Crystal 6. Growth and Characterization of Organic 4-nitrobenzaldehyde Single Crystal 7. Growth and Characterization of Glycine Glutaric Acid single Crystal 8. Conclusion and Scope for Future Work and List of Publication.

154. VASHISHT (Garima)

**Magnetization Reversal and Anisotropy Modulations in Pure FeCo and Reverse Stack FeCo/FePt bilayers: Experimental Approach with Micro magnetic Modelling.**

Supervisor: Prof. S. Annapoorni

Th 25741

*Contents*

Introduction 2. Experimental and Computational Techniques 3. Domain observation in electrochemically deposited FeCo thin Films 4. Influence of Substrate and Thermal Annealing on the magnetic Properties of RF Sputtered FeCo thin films 5. Pinning assisted out-of-Plane anisotropy in reverse Stack FeCo/FePt intermetallic bilayers 6. Domain State modulation by interfacial Diffusion in FePt/FeCo thin films 7. Studies of Exchange Coupling in soft/hard FeCo/L1<sub>0</sub>-FePt bilayer thin films 8. Tune ability of FeCo/FePt bilayers from spin-glass to strong Ferro magnet

### PHYSICAL EDUCATION & SPORT SCIENCES

155. PANDEY (Sudha)

**Psychological Assessment of Female Sports Persons in Relation to their Level of Achievement.**

Supervisor: Prof. Sandeep Tiwari

Th 26513

*Contents*

1. Introduction 2. Review of Related Literature 3. Procedure & Methodology 4. Analysis of data and Result of the Study 5. Summary, Conclusion & Recommendations. Bibliography and Appendices.

156. SHARMA (Anurag)

**Comparison of Anxiety, Frustration and Self-Confidence between the Sports Person of Rural and Urban Area.**

Supervisor: Prof. J.P. Sharma

Th 26331

*Contents*

1. Introduction 2. Review of the related literature 3. Research procedure & methodology 4. Analysis of data and result of the study 5. Summary conclusion and recommendations. Bibliography. Appendices.

### PLANT MOLECULAR BIOLOGY

157. GOUR (Pratibha)

**Semantic Digitization of Experimental Data and Characterization of Drought Responsive Transcription Factors in Rice.**

Supervisors: Prof. Anil Grover and Saurabh Raghuvanshi

Th25777*Contents*

Section I: Semantic digitization of experimental data in rice. Section II: Identification of variety specific drought responsive transcription factors and functional Characterization of OsMYB79 in rice

1. Introduction 2. Review of literature 3. Methods 4. Results 5. Discussion 6. Summary and Conclusion 7. Bibliography

158. SHALOO MEENA

**Investigating Thermotolerance in Triticum Aestivum by Functional Characterization of TaSTI and TaHsfA2d, and Transcriptome analysis Post PGPR (Paenibacillus sp.) Inoculation.**

Supervisor: Prof. Paramjit Khurana

Th25778*Contents*

1. Dissecting the molecular function of triticum aestivum ST/ Family members under heat stress 2. Elucidating the molecular function of wheat heat stress transcription factor, TaHsfA2d and its Isoform 3. Transcriptome analysis in triticum aestivum post PGPR (paenibacillus sp.) Inoculation. Summary and Conclusion and Appendix.

## POLITICAL SCIENCE

159. AEIJAZ (Tanvir)

**Accountability in Public Private Partnership: A Study Of Select Health Care Centers in Delhi.**

Supervisor: Prof. Ujjawal Kumar Singh and Dr. Bipin Kumar Tiwary

Th 25648*Contents*

1. Introduction 2. Mapping accountability 3. Dimensions of public private partnership and contracts 3. Accountability in public private partnership contracts 4. Public private partnership in Indian health care sector 5. Public-private partnership in select Delhi health care centers 6. Conclusions. Bibliography.

160. मंजु

**हिन्दू कोड बिल की समकालीन भारत में प्रासंगिकता: एक पुनरावलोकन.**

निर्देशिका: डॉ. रुचि त्यागी

Th 25634*विषय सूची*

1 भूमिका 2. भारत में व्यवहृत गैर हिन्दू पर्सनल लॉ तथा उनका विधायी इतिहास 3. हिन्दू विधि तथा उसका विधायी इतिहास 4. हिन्दू कोड बिल 5. हिन्दू कोड बिल संबंधी विवाद 6. हिन्दू कोड बिल पर विधायी चर्चा 7. स्वतन्त्रता पश्चात हिन्दू विधि (हिन्दू कोड) पर आधारित प्रमुख कानून 8। समकालीन भारत में हिन्दू कोडे बिल: व्यावहारिक परिपेक्ष्य. उपसंहार. संदर्भ ग्रंथ सूची. अनुबंध .

161. MAURYA (Vibha)

**India's Evolving Interest in The Indian Ocean: The Implications of Chinese Presence Since 1990.**

Supervisor: Dr. Nachiketa Singh

Th 25627

*Contents*

1 Introduction 2. GEO-politics: a conceptual framework 3. Situating India in the Indian region: implication since 1990 4. China's implication in the Indian ocean since 1990 5. Indian ocean and the interplay of strategic interests of major power 6. Prospects and counter strategies of engagement between India and China in the Indian ocean. Summary and conclusion. Bibliography. Maps.

162. निशा कुमारी  
**तटबंध बाढ़ नियंत्रण एवं भोजन का अधिकार: कोसी क्षेत्र का एक अध्ययन.**  
 निर्देशक: प्रोफेसर संगीत कुमार रागी  
Th 25649

*विषय सूची*

1 प्रस्तावना 2. भूख की समस्या और भोजन का अधिकार: संकल्पनात्मक एवं सैद्धांतिक परिप्रेक्ष्य 3. भारतीय राज्य और भोजन का अधिकार 4. तटबंध बाढ़ नियंत्रण तथा कोसी बाढ़ क्षेत्र की राजनीति-आर्थिक 4. कोसी क्षेत्र में भोजन के अधिकार: एक सांख्यिकी विश्लेषण. निष्कर्षात्मक अवलोकन. संदर्भ ग्रंथ सूची।

163. रजनी  
**संस्कृत नाटको मे स्त्री योनिकता का प्रस्तुतीकरण एक राजनीतिक दृष्टिकोण.**  
 शोधनिर्देशक: प्रोफेसर सुनील के चौधरी  
Th 25628

*विषय सूची*

1 प्रस्तावना 2. नाटक और योनिकता का सैद्धांतिक विमर्श 2. प्राचीन संस्कृत नाटको मे स्त्री योनिकता का आलंकारिक विमर्श 3. प्राक आधुनिक नाटको मे राजनीति और स्त्री योनिकता – एक परिवर्तित दिशा 4. स्वतंत्रोत्तर भारत मे स्त्री योनिकता एवं औपनिवेशिक आधुनिकता. निष्कर्षात्मक अवलोकन. संदर्भ ग्रंथ सूची।

164. RATH (Archana)  
**Law, Citizenship and Juvenile Justice: Rights of Children in India.**  
 Supervisor: Prof. Ashok Acharya  
Th 25647

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1. Introduction 2. Political theory and rights of children 3. Children as substantive citizens 4. Legal discourses and children in India 5. Children in need of care and protection and the Juvenile justice (Care and protection of Children) Act, 2015 6. Conclusion. References.

165. REDDY (Ranjay Kumar)  
**The Cultural Characteristics of The Contemporary Indian Middle Class.**  
 Supervisor: Dr. Biswajit Mohanty  
Th 25646

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1 Introduction 2. Discourses of the class 3. General forms of culture 4. Popular culture and middle class/es practices 5. Discourse in cultural theory. Conclusion. Bibliography and references.

166. ROZY KUMARI  
**Hunger, Public Health and Justice: Food Sovereignty as a Global Imperative.**  
 Supervisor: Prof. Ashok Acharya  
Th 25645

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1. Introduction 2. Hunger public health and justice: theoretical mapping 3. Food sovereignty as a new policy framework: challenges and goals 4. Food sovereignty practices: the global voice of the poor and hungry 5. Food sovereignty and public health equity 6. Conclusion. Bibliography.

167. SINGH (Jatinder)  
**Dalits And Their Struggle for Common Land: A Case Study of Punjab.**  
 Supervisor: Prof. Ujjwal Kumar Singh  
Th 25678

*Contents*

1.Introduction 2. Legislative assembly, laws and the question of land rights to landless Dalits: problematizing the visualization of land reforms 3. Housing and question of dignity: aspiration for honorable living spaces 4. Neo-liberalism and livelihood: a dalit's eye view. Conclusion. Bibliography.

168. YASIR (Khan)  
**Vision and violence a study of Maududi with reference in Lenin and Golwalkar.**  
 Supervisor: Dr. Saroj Giri  
Th 25650

*Contents*

1 Introduction 2. Literature review 3. Islam: the alternative system 4. Life as a context 5. Vision 6. Violence 7. Conclusion. Bibliography.

## PSYCHOLOGY

169. BHANOT (Divya)  
**Psychosocial Study of Stigma in Reference to Socio-Political Empowerment.**  
 Supervisor: Dr. Sunil Kumar Verma  
Th26427

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1. Introduction and Review of Literature 2. Conceptualisation and Scale Construction 3. Method 4. Result 5. Discussion Conclusion, Limitations and Future Directions. References and Appendices.

170. GOLCHA (Shikha)  
**Identity and Socio Emotional Facets of the Sibling Caregivers of Individuals with Intellectual Disability.**  
 Supervisor: Dr. Rajni Sahni

Th26423

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1. Introduction 2. Method 3. Results 4. Discussion 5. Conclusion Implications, and Limitations. References and Appendices.

171. JAISWAL (Sandeep Kumar)  
**Activism and Youth Development.**  
 Supervisor: Dr. Shyodan Singh  
Th26422

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1 Introduction 2. Review of Literature 3. Method 4. Results 5. Discussion and Conclusion. References and Appendices.

172. MEENA (Rajkumari)  
**Comparative Study of Physical, Mental, Psychological Stress Among Elderly Population in India and Nepal.**  
 Supervisor: Dr. Steyendra Kumar Thakur  
Th26428

*Contents*

1. Introduction 2. Review of Literature Research Methodology 3. Discussion and Interpretation of Result 5. Conclusion /Recommendation /Suggestions/ Suggestion for Future study/ Significance of the study and References

173. MISHRA (Rachna)  
**Understanding Resilience in Orphaned Adolescents Seeking Institutional Care.**  
 Supervisor: Dr. Vanita Sondhi  
Th26420

*Contents*

1. Introduction 2. The present research 3. Conceptualizing for orphaned adolescents in institutions 4. Role of the child –care institution in fostering resilience among orphaned adolescents 5. Theorizing pathways to resilience among orphaned adolescents in institutional care: a grounded theory study 6. General Discussion. References and Appendices.

174. SAHOO (Sudha Shashwati)  
**Exploring Gendered Realities in Everyday Living: a Qualitative Study.**  
 Supervisor: Dr. Preeti Kumar  
Th26426

*Contents*

1. Introduction 2. Methodology 3. Doing & Undoing gender: a narrative inquiry 4. Everyday Sexism: a daily diary study 5. Discussion: re-presenting research through artful portrayals. References and Appendix.

175. SINGH (Meenakshi)  
**Self-Conscious Emotions and the Development of Moral Self: Implication for Health and Psychological Well-Being.**



Supervisor: Dr. Meetu Khosla  
Th26424

*Contents*

1. Theoretical framework 2. Review of Literature 3. Present study 4. Study I: Conceptualization and situational antecedents of shame, guilt and lajja 5. Study II: exploring bodily changes, associated emotions, coping in shame, guilt and lajja with moral self and their implication 6. General discussion. References and Appendix.

176. SWATI  
**An Exploration into Online Prosocial Behaviour: A Study of Help-Giving and Moral Courage Among Social Media Users.**

Supervisor: Dr. Navin Kumar  
Th26501

*Contents*

1. Introduction 2. Review of Literature 3. Method 4. Result and Interpretation 5. Discussion 6. Conclusion and Implications 7. Limitations and Future Research 8. References 9. Appendices.

177. YADAV (Gitika)  
**Jungian Analysis of Myths and Fairytales on Death.**

Supervisor: Dr. Eeric Soreng  
Th26421

*Contents*

1. Introduction 2. Review of Literature 3. Method 4. Corpus of research: interpretations and reflections Section-I,II,III 5. Consummation of research: research findings 6. Call for research limitations and suggestions for further research and Citations in research: References.

178. YADAV (Kamna)  
**Mindfulness Based Cognitive Therapy Behaviour Activation Therapy and Relaxation for People with Cancer a Randomized Controlled Trial.**

Supervisors: Dr. S.P.K. Jena and Dr. Amit Agarwal  
Th26425

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1. Introduction 2. Review of Literature 3. Methodology 4. Results 5. Discussion 6. Conclusion. Self-Reflection. Feedbacks References and Appendix.

PUNJABI

179. SINGH (Rajinder)  
**Punjabi Natak da Mith-Vigyanik Adhyan.**

Supervisor: Prof. Rawail Singh  
Th 26452

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1. Visha bare Prapat Khoj: Servekhan te Mulankan 2. Mith ate Mith Vigyan: Sidhantak Paripekh 3. Punjabi Natakan vich Mith: Servekhan te Mulankan 4. Punjabi Natkan da mith-Vigiyanak Adhiyan. Sitte ate Sthapnawan. Pustak suchi.

## SANSKRIT

180. अमित कुमार

**काव्यप्रभावृत्ति में काव्यशास्त्रीय परम्परा का अनुप्रयोग।**

निर्देशक : प्रो. वेद प्रकाश डिण्डोरिया

Th26378

## विषय सूची

1. विषय प्रवेश 2. वाङ्मय विषयक अनुप्रयोग 3. नाट्य विषयक अनुप्रयोग 3. रस विषयक अनुप्रयोग  
4. रीति एवं वृत्ति विषयक अनुप्रयोग 5. अभिनय विषयक अनुप्रयोग 6. अलंकार विषयक अनुप्रयोग 7.  
गुण विषयक अनुप्रयोग 8. दोष विषयक अनुप्रयोग। उपसंहार। सन्दर्भ ग्रंथ सूची।

181. अवस्थी (ग्रीन)

**ब्रह्मसूतगीतयोः परिप्रेक्ष्ये सूतसंहितायाः दर्शनिकसन्दर्भाः ।**

निर्देशक : डॉ. पंकज कुमार मिश्र

Th 26373

## विषय सूची

1. सूतसंहितायाः परिचयः प्रतिपाद्यविषयाश्च 2. ब्रह्मगीतायाः दार्शनिकतत्त्वसन्दर्भाः 3. सूतगीतायाः  
दार्शनिकतत्त्वसन्दर्भाः 4. ब्रह्मसूतगीतयोः दार्शनिकदृष्ट्या तुनलात्मकमध्ययनम् 5. अद्वैतपरम्परायां  
सूतसंहितायाः स्थानम्। उपसंहार। सन्दर्भ ग्रंथ सूची। परिशिष्ट।

182. कुलदीप

**ऋग्वेदानुक्रमणी का समीक्षात्मक अध्ययन।**

निर्देशक : डॉ. सत्यपाल सिंह

Th 26484

## विषय सूची

1. स्वर विचार 2. आख्यात शब्दविचार 3. निपात शब्दार्थ विचार 4. शब्दावृत्ति स्वरूप, कारण और  
प्रयोजन 5. ऋषिनाम तथा आर्ष-गोत्र-विचार 6. छन्दों का वेदाङ्गत्व विचार 7. देवता स्वरूप एवं संख्या  
विचार 8. मन्त्रार्थ के प्रति ग्रन्थकार का दृष्टिकोण। उपसंहार। सन्दर्भ ग्रंथ सूची।

183. चन्द्रगुप्त भारतीय

**वेदान्त परक संस्कृत ग्रन्थों के फारसी अनुवाद का समालोचनात्मक अध्ययन : प्रमुख उपनिषद,  
भगवद्गीता तथा प्रबोधचन्द्रोदय के सन्दर्भ में।**

निर्देशक : प्रो. रमेश चन्द्र भारद्वाज एवं डॉ. बलराम शुक्ल

Th 26381

*विषय सूची*

1. भूमिका 2. फैजी अनुदित भगवद्गीता के फारसी पद्यानुवाद की समालोचनात्मक अध्ययन 3. प्रबोधचन्द्रोदय के फारसी अनुवाद का समालोचनात्मक अध्ययन। 4. निष्कर्ष । परिशिष्ट। सन्दर्भ ग्रंथ सूची।

184. भोजराज

**निघण्टु और अमरकोश का तुलनात्मक अध्ययन।**

निर्देशक : प्रो. रणजित बेहेरा

Th26377

*विषय सूची*

1. निघण्टु और अमरकोश की संरचनात्मक तथा कोश वैज्ञानिक विशेषताएँ 2. अमरकोश में प्राप्त निघण्टु के प्रथम अध्याय का कोशार्थगत विवेचन 3. अमरकोशस्थ नैघण्टुक काण्डीय द्वितीय अध्याय के शब्दों का अर्थपरक विश्लेषण 4. अमरकोश में प्राप्त निघण्टु के तृतीय अध्याय के शब्दों की अर्थपरक समीक्षा 5. अमरकोशस्थ नैगमकाण्डीय शब्दों का आर्णित विश्लेषण 6. अमरकोश में पठित दैवतकाण्डीय शब्दों का अर्थपरक विवेचन। उपसंहार। सन्दर्भ ग्रंथ सूची।

185. मनोरमा

**योगशास्त्रीय ग्रन्थों में प्राणायाम एवं उसके आधुनिक संदर्भ।**

निर्देशक : प्रो. रमेश चन्द्र भारद्वाज

Th 26383

*विषय सूची*

1. वैदिक वाङ्मय में प्राण एवं प्राणायाम पातञ्जलयोग-साहित्य में प्राणायाम विवेचन 3. जैन एवं बौद्ध में प्राणायाम विश्लेषण 4. नाथ परम्परा एवं हठयोग साहित्य में प्राणायाम 5. प्राणायाम के आधुनिक संदर्भ। उपसंहार। सन्दर्भ ग्रंथ सूची। परिशिष्ट।

186. मीना (रवि कुमार)

**संस्कृत की छन्दःशास्त्र-परम्परा में प्रत्यय विचार : एक समालोचन।**

निर्देशक : प्रो. दया शंकर तिवारी

Th 26382

*विषय सूची*

1. छन्दःशास्त्र परम्परा में प्रत्यय: अवधारणा एवं उसका विकास 2. छन्दःशास्त्र परम्परा में प्रस्तार-प्रत्यय 3. छन्दःशास्त्र परम्परा में नष्ट-प्रत्यय 4. छन्दःशास्त्र परम्परा में उद्दिष्ट-प्रत्यय 5. छन्दःशास्त्र परम्परा में एद्वयादिलगक्रिया-प्रत्यय। उपसंहार। सन्दर्भ ग्रंथ सूची।

187. मोहित कुमार

**सिद्धान्तकौमुदी पर तारानाथ तर्कवाचस्पतिकृत सरला व्याख्या : एक अध्ययन।**

निर्देशक : डॉ. मोहिनी आर्या एवं डॉ. बलराम शुक्ल

Th26379

*विषय सूची*

1. तारानाथ तर्कवाचस्पति एवं तत्प्रणीत सरला व्याख्या 2. सिद्धान्तकौमुदी सरला व्याख्या : संज्ञादि सन्ध्यन्त भाग 3 सिद्धान्तकौमुदी सरला व्याख्या : षड्लिङ्गादि स्त्रीप्रत्ययान्त भाग 4. सिद्धान्तकौमुदी सरला व्याख्या : कारकादि समासान्त भाग 5. सिद्धान्तकौमुदी सरला व्याख्या : तद्धितादि द्विरुक्तान्त भाग 6. सरला व्याख्या में प्रतिबिम्बित तारानाथ तर्कवाचस्पति की मौलिकता। निष्कर्ष। सन्दर्भ ग्रंथ सूची।

188. राजपूत (रमा)  
आचार्य विद्यारण्यकृत अनुभूतिप्रकाश का समालोचनात्मक अध्ययन।  
निर्देशिका : डॉ. दीपक कालिया  
Th 26376

*विषय सूची*

1. अनुभूतिप्रकाश में प्रतिपादित बह्व 2. माया की अवधारणा 3. जगत् की अवधारणा 4. जीवक का स्वरूप 5. मोक्ष का स्वरूप। उपसंहार। सन्दर्भ ग्रंथ सूची। परिशिष्ट।

189. विजित कुमार  
जैमिनीय एवं द्राह्यायण श्रौतसूत्रों का तुलनात्मक अध्ययन।  
निर्देशक : प्रो. रणजित बेहोरा  
Th 26384

*विषय सूची*

1. जैमिनीय एवं द्राह्यायण श्रौतसूत्रों का परिचय 2. जैमिनीय एवं द्राह्यायण श्रौतसूत्रों का प्रतिपाद्य विषय 3. उभय श्रौतसूत्रों में वर्णित योगों की विधियाँ एवं उनके साधन 4. जैमिनीय एवं द्राह्यायण श्रौतसूत्रों की तुलनात्मक समीक्षा 5. आधुनिक परिप्रेक्ष्य में यज्ञों की उपादेयता। उपसंहार। सन्दर्भ ग्रंथ सूची।

190. SADHU PARAMVIVIEKDAS  
**Brahmavidya of the Mundaka Upanisad in Perspective of the Svaminarayana Darsana.**  
Supervisors : Prof. Ramesh Bhardwaj and Dr. Bhadreshdas Swami  
Th 26385

*Contents*

1. History of Brahmavidya and the Svaminarayana darsana 2. Brahmavidya in the Mundaka Upanisad 3. Brahmavidya of the Mundaka Upanisad as explained in the Svaminarayana darsana in the other Upanisads 4. Brahmavidya of the Mundaka Upanisad as explained in the Svaminarayana darsana in the Srimadbhagavadgita 5. Brahmavidya of the Mundaka Upanisad as explained in the Svaminarayana darsana in the Brahmasutras 6. Conclusion. Bibliography.

191. सचदेव (कृपा भाष्कर)  
पद्मसुन्दरगणिकृत अकबरसाहिशृङ्गारदर्पण का समालोचनात्मक अध्ययन।  
निर्देशक : प्रो. दया शंकर तिवारी  
Th26380

*विषय सूची*

1. अकबरसाहिशृङ्गारदर्पण- रस विचार 2. अकबरसाहिशृङ्गारदर्पण में शृङ्गार रस का आलम्बन विभाव-नायक 3. अकबरसाहिशृङ्गारदर्पण में शृङ्गार रस का आलम्बन विभाव-नायिका 4.

अकबरसाहिश्चूङ्गारदर्पण में नायिका की सखियाँ 5. अकबरसाहिश्चूङ्गारदर्पण में प्रकीर्ण। उपसंहार। सन्दर्भ ग्रंथ सूची।

192. सिद्दीकी (मोहम्मद इरफान)  
**संस्कृत के आधुनिक यात्रा-काव्य : एक समीक्षात्मक अध्ययन।**  
 निर्देशक : डॉ. विजय गर्ग  
Th 26375

*विषय सूची*

1. विदेशविषयक यात्रा-काव्य 2. भारतविषयक यात्रा-काव्य 3. यात्रा-काव्यों में विमानादि वाहन वर्णना  
 4. यात्रा-काव्यों की साहित्यिक उपलब्धि 5. अध्ययन का मूल्यांकन। उपसंहार। सन्दर्भ ग्रंथ सूची।  
 परिशिष्ट।

193. हेमलता रानी  
**दिल्ली राज्य के आधुनिक संस्कृत-साहित्य का समीक्षात्मक अध्ययन।**  
 निर्देशक : डॉ. टेक चन्द मीणा  
Th 26374

*विषय सूची*

1. दिल्ली राज्य का संस्कृत नाट्य साहित्य 2. दिल्ली राज्य का संस्कृत का पद्य साहित्य 3. दिल्ली राज्य  
 का संस्कृत गद्य एवं चम्पू साहित्य 4. दिल्ली राज्य का संस्कृत-बाल साहित्य 5. दिल्ली राज्य का  
 अनूदित संस्कृत-साहित्य। उपसंहार। परिशिष्ट। सन्दर्भ ग्रंथ सूची।

## SOCIAL WORK

194. ANJALI SUMAN  
**Impact of Domestic Violence Act: Perspectives of Women in the National Capital Territory of Delhi.**  
 Supervisor: Dr. Neena Pandey  
Th25768

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1. Introduction 2. Review of Literature 3. Methodology 4. Profile of the respondents  
 5. Registration of domestic violence cases: the contexts 6. The journey as litigants:  
 impact of various factors 7. Lived experiences of women litigants and impact of legal  
 recourse 8. Stakeholders perspectives pertaining to women litigants and impact of  
 domestic violence act 9. Conclusion and Recommendations. Bibliography and  
 Annexures.

195. PANDEY (Shalini)  
**Sexual Minorities and Social Work: a Study of Transgender people in NCT of Delhi.**  
 Supervisors: Prof. Sanjai Bhatt and Prof. Beena Antony Reji  
Th25762

*Contents*

1. Introduction: Sexual minorities and social work 2. Review of Literature 3. Research methodology 4. Profile of the respondents 5. Socio cultural lifestyles of transgender people 6. Physical, mental and social well-being of transgender people 7. Social identity and vulnerabilities of transgender people 8. Government and civil society organisations: responses 9. Social work practice with transgender people and References.

196. STISH KUMAR  
**Education of Adivasi Children in Bastar, Chhattisgarh.**  
 Supervisor: Dr. Sanjoy Roy  
Th25767

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1. Introduction 2. Review of Literature 3. Research methodology 4. Participation of adivasi children in school education 5. Factors affecting education of adivasi children in schools 6. Evaluation of mukhyamantri Bal Bhavishya Suraksha Yojana 7. Summary, Conclusion and Recommendations. References and Annexures.

## STATISTICS

197. SAINI (Richa)  
**Statistical Analysis of Survival of Life Insurance Policies: a Study on the Problem of law Persistency in India.**  
 Supervisors: Prof. Gurprit Grover and Dr. Vajala Ravi  
Th26404

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1. Introduction 2. Actuarial v/s survival models for modeling the persistency in life insurance 3. Modeling of survival time of life insurance policies in India : a comparative study 4. Markov chain modelling of persistency for life insurance in India 5. Predictive modelling of lapsation of life insurance policies in India 6. Assessment of sustainability and opportunities in Indian life insurance sector 7. Key findings and future trajectories. Contribution of the study to insurers. Bibliography and internet sources and List of published research papers.

198. VERMA (Kanika)  
**Contributions to Moments of Ordered Random Variables and Associated Inference.**  
 Supervisors: Dr. Narinder Pushkarna and Prof. Jagdish Saran  
Th26405

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1. Introduction 2. Relationships for moments of generalized order statistics from erlang-truncated exponential distribution and related inference 3. Relationships for moments of generalized order statistics from schabe distribution and related inference 4. Relationships for moments of generalized order statistics from Hjorth distribution and related inference 5. Progressively type-II right censored order

statistics from Hjorth distribution and related inference 6. Progressively type-II right censored order statistics from odds generalized exponential-pareto distribution and related inference 7. On the record values and its predictions from exponentiated inverted weibull distribution and associated inference 8. Recurrence relation and prediction on the record values from schabe distribution 9. Stress-strength reliability estimation of  $p(X_{r:n1} < Y_{k:n2})$  for exponentiated inverted weibull distribution and Bibliography.

## URDU

199. AHMED (Farman)  
**Hindustan ke mazbool-E-Aam Culture Mein Urdu ka farogh.**  
 Supervisor: Prof. Syed Ali Karim (Irteza Karim)  
Th 26353

### *Contents*

1. Hindustan Mein Theatre, Seminar aur Tv ki riwayat 2. Hindustan ke Maqbool aam culture mein urdu ka farogh 3. Jawaid Akhtar ke Halat-e-zindagi 4. Ma-hasl Mutala 5. Kitabiyat.

200. DAR ( Amir Nazir)  
**Balwant Singh ke Afsanon Mein Delhi Zindagi ki Akkasi.**  
 Supervisor: Dr. Mohd. Mohsin  
Th 26350

### *Contents*

1. Urdu afsanon mein dehat ki akkasi 2. Balwant Singh: Fun aur funkar 3. Balwant Singh ke hum asar afsana nigar aur unke afsanon mein dehati zindagi 4. Balwant singh aur dehati zindagi 5. Hasil-e Mutala 6. Kitabiyat.

201. MOHAMMAD ANAS  
**Parsi Theater ki Teknik Aur Uski Peshkash**  
 Supervisor: Dr. Mohammad Kazim  
Th 26536

### *Contents*

1. Hindustan mein Drame ki tareekh aur us ki peshkash 2. Urdu drame ke ibtedai nuqoosh aur us ki peshkash 3. Parsi theatre ka ibtedai daur (1853-1885) 4. Parsi theatre 1920-1885 5. Parsi theatre ka aakhri zawal 6. Hasil-e- Mutala: Parsi theatre aur uske asrat 7. Kitabiyat

202. MOHAMMAD IRFAN  
**Qazi Abdus Sattat ke Afaanvi Adam mein Jagirdar Tehjib-O- Saqafat ki Akkasi.**  
 Supervisor: Dr.Narsa Sultana  
Th 26352

### *Contents*

1. Qazi Abdus Sattar: Hayat (ek Mukhtasar Jaiza) 2. Quazi Abdus Sattar: Samaji Novelon ka Tanqeedi Jaiza) 3. Qazi Abdus Sattar Tareekhi Novelon ka Tanzeedi Jaiza 4. Qazi Abdus Sattar ke afsanon ka tanqeedi Jaiza 5. Qazi Abdus Sattar ki Afsanavi adab min Jageer darana Tehzeeb 6. Ma-Hasl Mutala 7. Kitabiyat.

203. MEENA ( Ramdhan)  
**Mushtaque Ahmad yusufi ki Nigarishaat mein Mizahita Anasir.**  
 Supervisor: Prof. S.Ali Karim  
Th 26354

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1. Urdu adab mein Mizah Nigari 2. Ahad aur Mwasireen 3. Mushtaq Ahmad Yousufi:Sawaneh,shakhsiyat aur adbi kawaif 4. Mustaq Ahmad yousufi ki firri Jihat 5. Mustaq Ahmad yousufi ka fun-o- usloob 6. Mustaq Ahmad yousufi ki Nigarishat Mein mazhia anasir 7. Kitabiyat.

204. NABI (Gulam)  
**Azadi ke Baad Riyasat Jammu & Kashmir Mein Urdu Mazammati Adab ka Jayiza.**  
 Supervisor: Dr. Mohd. Mohsin  
Th 26348

*Contents*

1. Muzammati Urdu Adab: Tareef-o-Irteqa 2. Jammu Kashmir Mein Urdu Shairi ka mazhabi pehlu 3. Jammu and Kashmir mein Urdu fiction ka Muzammatti pehlu 4. Jammu Kashmir Ghair Afsanvi adab aur Muzammatt 5. Ma-Hael Mutala 6.Kitabiyat.

205. NAZIA  
**Rajinder singh Bedi ka Tasawwur-E-Niswan (Novel aur Afsane ke Hawale se).**  
 Supervisor: Dr. Mohd. Mohsin  
Th 26349

*Contents*

1. Rajinder Singh Bedi-Hayat aur Adbi Khidmat 2. Bedi ke afsana Nigari 3. Bedi ki Novel Nigrari 4. Bedi ke Afsanavi Kirdaron ka Nafsiyati Mutala 5. Bedi ke Afsanavi Kirdaron ka Nafsiyati Mutala 6.Bedi ka tasawwur-e-Niswan Novel aur afsanon ki roshni mein 7. Ma-Hoel 8. Kitabiyat.

206. SHAGUFTA PARWEEN  
**Tarakki Pasand Tehreek aur Urdu Fiction(1936 sey 1960) ka ek Naqedana jayeza.**  
 Supervisor: Dr. Abu Bakar Abbad  
Th 26351

*Contents*

1. Fiction: Tareef-O-Tauzeeh 2. Taraqqi Pasand Tehreek se qabl Urdu fiction ka Ijtemali Jaiza 3. Taraqqi Pasand fiction ka tajziyati Mutala(Mauzuaat Kirdar, Takneek, Usloob aur Bayana) ke hawale se 4. Jadeediyat ki Lehar (Tareef, Maqasad,Takneek Iqsaam aur Masail) 5. Ma-hasl Mutala 6. Kitabiyat.



## ZOOLOGY

207. DAHIYA (Priyanka)  
**To Study the Role of Store-operated Calcium Entry (STIM1/Orai1) Signalling in Mycobacterium Fortuitum Induced Pathogenesis in Clarias Gariepinus.**  
 Supervisors: Prof. Umesh Rai and Prof. Shibnath Mazumder  
Th25663

*Contents*

1. Introduction 2. Review of literature 3. Objectives-I: To identify and sequence STIM1 and Orail gene in clarias gariepinus 4. Objective-II: TO elucidate the upstream molecules responsible for activating SOCE and study its role in M. fortuitum pathogenesis 5. Objective-III: To elaborate upon the cell signalling cascade induced by SOCE in infected HKM 6. Summary. References. Appendix and publication.

208. JAI KUMAR  
**Zebrafish Macrophages as Model to Study the Pathogenesis of Gram Negative and Gram Positive Bacterial Pathogens.**  
 Supervisors: Prof. Umesh Rai and Prof. Shibnath Mazumder  
Th25660

*Contents*

1. Introduction 2. Review of literature 3. Objective-I 4. Objective-I 5. Objective-II 6. Objective-III 7. References 8. publications.

209. SAH (Dhananjay Kumar)  
**Role of SKI-II and Zn induced Nrf2/ARE Antioxidant Defence in Radioprotection.**  
 Supervisors: Prof. Madan Mohan Chaturvedi and Dr. Anant Narayan Bhatt  
Th25664

*Contents*

1. Introduction 2. Review of literature 3. Material and method 4. Result: role of SKI-II induced Nrf2/ARE antioxidant defence in radioprotection 5. Result: role of zinc induced Nrf2/ARE antioxidant defence in radioprotection 6. Discussion 7. Summary and conclusion of the study. References and publication.