

CHAPTER 62

THESES OF THE PREVIOUS YEAR

(A List of Theses Accepted for Awarded of the Degree of Ph.D. in 91th Annual Convocation-2014)

Doctoral Theses

AFRICAN STUDIES

717. TRIPATHI (Tanvi)
Role of Women in Nation Building in South Africa.
Supervisor : Dr. Suresh Kumar
Th 20352

Contents

1. Introduction 2. Political participation of women 3. Economic participation of women 4. Social participation of women 5. Concluion and bibliography.

BIOCHEMISTRY

718. AMIT KUMAR
Biochemical and Biophysical Characterization of Novel Hemoglobins.
Supervisors : Dr. Suman Kundu and Dr. Michael I. Oshtrakh
Th 20335

Contents

1. Introduction, review of literature and objectives 2. Mechanism of regulation of ligand binding in a novel leghemoglobin from the legume lupinus luteus 3. Mossbauer spectroscopy as a probe for fine structural details of tetrameric and monomeric hemogiobins : Potential as a diagnostic tool 4. Discovery and

characterization of a novel hemoglobin from thermo-acidophilic algae 5. Characterization of a novel hemoglobin from the green algae chlamydomonas reinhardtii 6. Summary, Appendix and achievements.

719. VERMA (Rupangi)
Identification and Validation of Drug Targets against Mycobacterium Tuberculosis.
 Supervisor : Prof. Anil K. Tyagi
Th 20333

Contents

1. Introduction 2. Review of literature 3. Aims and objectives 4. Research work carried out towards the aims and objectives 5. Summary and Conclusion. Appendix. Publications.

BOTANY

720. GUPTA (Yamal)
Potential Utility of Microbial Culture Media and Plants to Generate Metal Nanoparticles.
 Supervisors : Prof. K. S. Rao and Prof. P. Pardha Saradhi
Th 20297

Contents

1. Introduction. 2. Materials and methods 3. Potential of microbial culture media and their components for synthesis of Au Nanoparticles 4. Potential of microbial culture media and their components for synthesis of Ag Nanoparticles 5. Root system of live plants is a powerful resource for green synthesis of Au Nanoparticles. 6. Root system of plants is a powerful resource for generation of Ag Nanoparticles 7. Plants fabricate FE-Nanocomplexes at root surface to counter and phytostabilize excess IONIC Fe. 8. Sumamry and Conclusion. References.

721. SAINI (Rashmi)
Computational, Cultural and Metagenomic approach to Study Carbon Dioxide Utilizing Microorganisms.
 Supervisors : Dr. Rupam Kapoor and Dr. Rita Kumar
Th 20299

Contents

1. Introduction 2. Review of literature 3. Materials and methods
4. Results and discussion 5. Summary and conclusion. References.

722. SHASHI
Developmental Morphogenesis and in Vitro Genetic Manipulation of Cenchrus Ciliaris L.
Supervisor : Dr. Vishnu Bhat
Th 20298

Contents

1. Introduction 2. In vitro plant regeneration through somatic embryogenesis and direct shoot organogenesis in cenchrus ciliaris. 3. Agrobacterium-mediated Genetic Transformation of cenchrus ciliaris L. 4. Down regulation of apomixis specific CcRLK gene in cenchrus ciliaris 5. Construction of GATEWAY RNAi Vector of SERK gene isolated from sorghum bicolor (L.) moench 6. Summary and reference.

BUDDHIST STUDIES

723. HO KHAC PHONG
Philosophy of Language in the Five Nikayas.
Supervisor : Prof. K.T.S. Sarao
Th 20312

Contents

1. Introduction 2. The concept of philosophy of language 3. Language and meaning as reflected in the five Nikayas 4. Philosophy of language in the five Nikayas 5. Language and thought 6. Summary and conclusion, bibliography.

724. HUYNH THI YEN
Concept of Sunnata in the Pali Nikayas.
Supervisor : Dr. S.B. Pavagadhi
Th 20347

Contents

1. Introduction 2. The meaning and characteristics of sunnata in the five pali nikayas 3. Practical ways on sunnata 4. The significance and benefits of sunnata 5. Conclusion and bibliography.

725. VO THI THUY
**Study of the Buddhist View of Karma as Depicted in the
 Abhidharmakosa of Vasubandhu.**
 Supervisors : Prof. K.T.S. Sarao and Dr. R.R. Singhal
Th 20348

Contents

1. Introduction 2. Origin and development of the abhidharmakosa
 3. The doctrine and theory of karma 4. The Buddhist view of
 karma as depicted in the abhidharmakosa 5. Relevance of karma
 6. Conclusion and bibliography.

BUSINESS ECONOMICS

726. BHALLA (Priya)
**Mergers and Acquisitions in the Indian Financial Sector since
 Economic Reforms : An Empirical Exploration of Determinants
 and Effects.**
 Supervisors : Dr. Aradhna Aggarwal and Dr. Ananya G. Dastidar
Th 20395

Contents

1. Introduction 2. Mergers and acquisitions : Conceptual issues
 and trends in India 3. Patterns of M&A in Indian financial sector :
 Based on a comprehensive dataset 4. Differential characteristics
 of acquirers and targets : An empirical analysis 5. Impact of
 M&A on financial performance of acquirers : An empirical analysis 6.
 Assessing the role of technical efficiency in M&A: A stochastic
 distance function approach 7. Conclusion and bibliography.

CHEMISTRY

727. AMIT KUMAR
**Generalized theoretical Model to Evaluate the Conformational
 and Dynamic Properties of Semiflexible Dendrimers.**
 Supervisor : Dr. Parbati Biswas
Th 20292

1. Introduction 2. Dynamics of Semiflexible Dendrimers in Dilute solutions 3. Intramolecular relaxation dynamics in semiflexible dendrimers 4. Conformational transitions in semiflexible dendrimers induced by bond orientations 5. Dendrimers as a fractal structure 6. Conformation and intramolecular relaxation dynamics of semiflexible randomly hyperbranched polymers 7. Orientational relaxation in semiflexible dendrimers. 8. Supplementary material for chapter 5 and bibliography.

728. CHUNDAWAT (Tejpal Singh)
Studies in New Fluorination and Synthetic Strategies for Development of Biologically Important Fluoroheterocycles.
 Supervisor : Dr. Sunita Bhagat
Th 20388

Contents

1. Part-A : Synthesis and in vitro antimicrobial evaluation of novel fluorine containing 3-Benzofuran-2-yl-5-phenyl-4,5-dihydro-1H-pyrazole, 3-Benzofuran-2yl-5-phenyl-4,5-dihydro isoxazoles and 4-Benzofuran-2yl-6phenyl-pyrimidin-2-ylamines. Part-B : Biophysical studies of some synthesized fluorinated α , β -Unsaturated carbonyl compounds by UV/Fluorescence Spectroscopy 2. Difluoromethylation : Synthesis of novel 1-(1,3-Diphenyl-1H-pyrazol-4-yl)-3,3-difluoro-1,3-dihydro-indol-2-ones using nucleophilic fluorinating reagent 3. Modeling studies and synthesis of 3,3-Difluoro-1-{4-[4-(2-methoxy-phenyl)-piperazin-1-yl-methyl]-2-phenyl-[1,3]-dioxolan-2-ylmethyl}-1,3-dihydro-indol-2-ones 4. Synthesis of (3-Fluoro-4-phenyl-1H-benzo[b][1,5]-diazepin-2-yl)-phenyl-amine via electrophilic fluorination using selectfluor. 5. Development of schiff base complex of nickel as novel catalyst for microwave assisted one pot synthesis of 2,4,5-Trisubstitutedimidazoles 6. Summary of the thesis.

729. DIVNEET KAUR
Unusual Products Based on Aryl Nitrenes and Cataractogenesis
 Supervisors : Dr. S. V. Eswaran and Dr. R. Nagarajan
Th 20289

Contents

1. Introduction 2. Thermolysis of "Azido-meta-hemipinate" - A reinvestigation 3. Thermolysis of "Azido-meta-Meconine" Formation of 4-Methoxy-6H-furo[3',4',3,4]benzo[2,1,-d]oxazol-8-one

4. Thermolysis of dimethyl-3-azido-2,5-dimethoxyterephthalate ("Azido Dimethyl Succinylosuccinate") formation of dimethyl 3-(4,7-dimethoxy-3,6-bismethoxycarbonyl-3*H*-azepin-2-yl)-5-methoxy-2,3-dihydrobenzoxazole-4,7-dicarboxylate 5. Photolysis of 2-Methoxy-6-methoxycarbonyl phenyl azide and photovoltaic studies on a photolysis product 6. Chemical crosslinking-mass spectrometric studies on α A-Crystallin-Cataractogenesis 7. Summary, Manuscripts under preparation, list of conferences and presentations.

730. JAIN (Shaina D)
Synthesis of Porphyrinoids and Related Macrocycles and Their Non Covalent Interactions.
 Supervisor : Prof. S.M.S. Chauhan
Th 20295

Contents

1. Synthesis of selected functionalized calix[4]pyrroles and their non covalent interactions 2. Synthesis of dipyrromethane and dipyrromethene, their reactions with borontrifluoride and related reactions 3. Part-A : Synthesis of selected transition metallo complex of 5,10,15,20-meso substituted porphyrins and their metal complexes and their applications in the oxidation of selected unsaturated compounds. Part-B : Comparison of self assembly of zinc 5,10,15,20-tetrakis-(4-pyridyl) porphyrin with zinc(II) 5,10,15,20-tetrakis-(4-dimethylamino phenyl) porphyrin in binary solvents and in presence of surfactants 4. Synthesis of selected lanthanide decker porphyrins and their non covalent interactions 5. Chemical synthesis of expanded porphyrinoids and their non covalent interactions with fullerene and related carbon nanoparticles 6. Synopsis.

731. JAIN (Manvi)
Synthesis of Deuterated Crosslinker, Purine, 1H- & 2D-NMR studies on Formyl Indole and Cholesterol Adduct.
 Supervisors : Dr. S. V. Eswaran and Dr. R. Nagarajan
Th 20287

Contents

1. Introduction 2. Synthesis, characterization and crosslinking studies of a novel deuterated analog of a heterobifunctional crosslinker 3. Synthesis and 2D-NMR studies of cholesterol adduct (I) 4. NMR studies on methyl-6-formylamino-5-methoxy-indole-2-carboxylate (1); intermediate of pyrroloquinoline quinone

5. Synthesis of green bromine intermediates for purines and cross-coupling reactions 6. Studies on the biological activities of some nitrogen heterocycles 7. Conclusion and summary.

732. MAHENDRU (Swati)
Structural Status of Potential Triplex Forming DNA Segments in Human COX-2 Promoter Region
 Supervisor : Prof. Shrikant Kukreti
Th 20386

Contents

1. Introduction 2. Materials and methods 3. Bioinformatics : Analyzing DNA sequences 4. Targeting the COX-2 promoter for triplex formation 5. Exploring the effect of flanking sequence on A-Tract oligonucleotide structure 6. Conclusion and bibliography.

733. MAHESH CHAND
Design, Synthesis and Antimicrobial Evaluation of Some Novel Triazole and Tetrazole Derivatives Bearing Different Heterocyclic Moieties
 Supervisor : Prof. S C Jain
Th 20288

Contents

1. Part-A: Synthesis and antimicrobial activity of some new 4-methyl-7-((5-aryl-4H-1,2,4-triazol-3-yl)methoxy)-2H-benzopyran-2-one derivatives. Part-B : Synthesis of coumarin derivatives containing different heterocyclic amines of biological importance. 2. Part-A: Synthesis and biological evaluation of some new 1,2,4-triazolylbenzotriazoles. Part-B: Synthesis and antimicrobial evaluation of novel benzotriazole analogues bearing oxadiazole moiety. 3. Synthesis and antimicrobial evaluation of some 1,2,3-triazoles bearing different heterocyclic moieties using click chemistry. 4. Part-A: Design and synthesis of novel tetrazolylquinazolinone analogues. Part-B : Synthesis and biological profile of oxadiazine substituted quinazolinone core. 5. Summary.

734. MANGAL (Harsha)
Nano Metal Oxides and Impregnated Metal Oxides : Synthesis, Characterization and Applications for Removal of Toxic Chemicals
 Supervisors : Prof. Monika Datta and Dr. P.K. Rai
Th 20296

Contents

1. Introduction 2. Synthesis and characterization of nanoparticles
 3. Adsorptive removal of toxic chemicals on metal oxide nanoparticles
 4. Adsorptive removal of toxic chemicals on impregnated metal oxide nanoparticles
 5. Summary 6. Future prospects.

735. MANPREET KAUR
Versatile use of Clay Nanocomposites as Adsorbents, Colorants and Drug Delivery Vehicle.
 Supervisor : Prof. Monika Datta
Th 20283

Contents

1. Introduction to clay nanocomposites 2. Analytical techniques
 3. Clay nanocomposites as adsorbents 4. Clay nanocomposites as colorants
 5. Clay nanocomposites as drug delivery vehicle 6. Summary 7. Future prospects.

736. MONIKA
Synthesis of Quinoline and Quinazoline Derived Novel Pharmacophores Containing Oxadiazole and Triazole Scaffolds and Phytochemical Investigation of Bark of Aporosa Octandra.
 Supervisor : Prof. S C Jain
Th 20285

Contents

1. Part- A: Synthesis and antimicrobial evaluation of novel 4-(6 and 4-(4-(heterocyclmethyl/hydroxyalkyl)-1H-1,2,3-triazol-1-yl)hexyl/butyloxy) quinazolines. Part- B : Synthesis and antimicrobial evaluation of novel 4-(4-(4-(heterocyclmethyl)-1H-1,2,3-triazol-1-yl)but-2-enyloxy)quinazolines
 2. Synthesis and biological evaluation of some novel heterocycles containing quinazoline , oadiazole & triazole moieties
 3. Synthesis of 5-(2-phenylquinolin-4yl)-1,3,4-oxadiazole-2(3H)-thione analogues bearing phenolic and thiophenolic moieties linked via lipophilic spacer
 4. Synthesis of new quinazoliny hydrazones in aqueous medium
 5. Phytochemical investigation of bark of Aporosa octandra
 6. Summary.

737. SINGH (Anju)
Structural Polymorphism and Recognition of DNA G-Quadruplexes.
 Supervisor : Prof. Shrikant Kukreti
Th 20290

1. Introduction and Literature Review 2. Materials and experimental techniques 3. Bioinformatic approaches to study human myosin (MYH7)Gene 4. Structural status of a 23-mer G-rich Sequence of (MYH7) gene promoter 5. Structural status of C-rich sequences of (MYH7) gene promoter 6. Stabilization of DNA G-Quadruplexes 7. Conclusion and bibliography.

738. SINGHAL (Rahul)
Montmorillonite - Polymer nanocomposites as Drug Delivery Vehicle
 Supervisor : Prof. Monika Datta
Th 20291

Contents

1. Introduction 2. Comprehensive recent literature survey 3. Analytical techniques used for characterization 4. Synthesis of montmorillonite polymer nanocomposites 5. MMT polymer nanocomposites as drug delivery vehicle 6. Summary 7. Future prospects.

739. SINHA (Niharika)
Synthesis of Selected Porphyrinogens and Their Non-covalent Interactions.
 Supervisor : Prof S.M.S. Chauhan
Th 20294

Contents

1. Synthesis of porphobilinogen and related 3,4- disubstituted pyrroles and their use in porphyrinogen synthesis 2. Anion templated synthesis of calix[4]pyrroles and *N*-confused calis[4]pyrroles 3. Task-Specific Ionic liquids in the synthesis of calix[4] pyrroles, calix[6] pyrroles and their anion binding with selected ionic liquids 4. Azulene : In the synthesis of porphyrinoids 5. Calix[4]pyrroles catalyzed organocatalytic reactions. Synopsis.

740. SEEMA
Clay and Clay Polymer Nanocomposites : A Class of Novel Materials for Oral Drug Delivery system.
 Supervisor : Prof. Monika Datta
Th 20284

SECTION-A : Introduction : 1. Objective of the present work 2. Recent review of literature 3. Introduction to analytical techniques used in the present work.

SECTION-B : Clay and Clay Nanocomposites as Oral Drug Delivery System : 1. Synthetic methodologies 2. Propranolol HCl, an antihypertensive drug 3. Atenolol, an antihypertensive drug 4. Fluorouracil, an anticancer drug 5. Summary 6. Future prospects . Credentials.

741. TANDON (Rashmi)
Studies on the Antimycobacterial Action of 7-Substituted-4-Methylcoumarins and Their Dihydro-1,3-Oxazine Analogues
 Supervisors : Dr. Mahendra Nath and Prof. H.G. Raj
Th 20293

Contents

1. An overview on the drug development against tuberculosis 2. Studies to assess the in-vitro antimycobacterial potential of 7-amino-4-methylcoumarin derivatives and coumarin-based dihydro-1,3-oxazines 3. In-silico analysis of 7-amino-4-methylcoumarins and coumarin-oxazine conjugates using various softwares to determine the drug-likeness parameters 4. Study of ex-vivo efficacy of 7-amino-4-methylcoumarin against intracellular Mycobacterium tuberculosis using THP-1 cell line 5. Docking studies with probable drug targets InhA and DNA gyrase using 7-amino-4-methylcoumarin derivatives as substrates 6. Study on the effect of 7-amino-4-methylcoumarin and its 7-N-acyl derivatives on the expression profile of genes involved in the mycolic acid biosynthetic pathway of Mycobacterium tuberculosis 7. Summary. Patents and publications.

742. VINOD KUMAR
Synthesis, structure and properties of cation, anion and cation and anion-coupled substitutions in selected oxide semiconductors.
 Supervisor : Dr. S. Uma
Th 20286

Contents

1. Introduction 2. Characterization techniques 3. Novel lithium containing honeycomb structures Li_4MTeO_6 (M(II)=Co, Ni, Cu, Zn) and $\text{Li}_2\text{Cu}_2\text{TeO}_6$ 4. Synthesis structure and properties of anion (F)

doped wide band gap semiconductor SnO₂ 5. Investigation of cation (Sn²⁺) and anion (N³⁻) substitution in favor of visible light photocatalytic activity in the layered perovskite K₂La₂Ti₃O₁₀ 6. Optical and magnetic properties of (Er,F) codoped SnO₂ nanocrystals obtained by one pot synthesis. Appendices.

743. YADAV (Ompal Singh)
Corrosion Inhibition of Mild Steel by some Schiff Bases in Acidic Medium
 Supervisor : Prof. Gurmeet Singh
Th 20387

Contents

1. Introduction 2. Literature survey 3. Synthesis and characterization of the schiff base compounds used as corrosion inhibitors 4. Experimental procedure 5. Galvanostatic polarization studies 6. Temperature kinetics 7. Potentiostatic polarization studies 8. Electrochemical impedance spectroscopy and linear polarization resistance 9. Scanning electron microscopy 10. Atomic force microscopy 11. Quantum chemical analysis 12. Conclusion.

ELECTRONIC SCIENCE

744. ASHWANI KUMAR
Synthesis of Defected Ground Structure (DGS) based Lowpass and Bandstop Filters for Microwave Application.
 Supervisor : Prof. A.K. Verma
Th 20336

Contents

1. An overview. 2. Modeling and comparative study of defected ground structure (DGS) in microstrip line. 3. synthesis of simple DGS based lowpass filters. 4. Synthesis of complex DGS based lowpass filters. 5. Synthesis of legendre group of lowpass filters. 6. Synthesis of DGS based dual-band bandstop filter. Conclusion and future scope of work. Bibliography and publications.

745. SINGH (Paranjeet)
Analysis of Multilayer Lossy ISO/Anisotropic CPW Like Transmission Lines Using Integrated SDA and SLR Methods.
 Supervisor : Prof. A.K.Verma
Th 20334

Contents

1. a review of planar transmission lines, comparison of EM-simulators and objective of thesis. 2. Formulation of single layer reduction method. 3. Analysis of symmetric multilayer CPW using integrated SDA and SLR method. 4. Analysis of asymmetric CPW using integrated SDA and SLR method. 5. Analysis of MCS line using integrated SDA and SLR method. 6. Dispersion characteristics of multilayer asymmetric CPW, symmetric CPW and MCS line on anisotropic substrates. Conclusion & future scope of work. References and publications.

ENVIRONMENTAL STUDIES

746. VIRAT
Impacts of parvati Hydro-Electric Project Development on the Critical Habitats of Montane Birds of Western Himalaya.
 Supervisor : Prof. Maharaj K. Pandit
Th 20303

Contents

1. Introduction 2. Study area and method. 3. Results 4. Discussion
 5. Summary. References and appendices.

GENETICS

747. MICHEALRAJ (K. Antony)
Identification fo Functional Variants in Dopamine Receptor D4 and Monoamine Oxidase A & B Genes by Genotype-Phenotype Correlations
 Supervisor : Prof. Thelma B.K.
Th 20365

Contents

1. Introduction and review of literature. 2. Materials and methods. 3. Identification of critical variants in human drd4 gene. 4. Drd4 expression analysis in human lung cell lines. 5. Search for critical variants in mao a and b. Conclusions and perspectives. Bibliography and appendices.

GEOGRAPHY

748. Roy (Anuradha)
Diversification of Rural Livelihood Systems in Bishnupur Plains : Case Study of Selected Villages.
 Supervisor : Dr. Anjan Sen
Th 20390

Contents

1. Introduction 2. Geographical profile of the study area 3. Livelihood opportunities 4. Diversification of rural livelihood system 5. Rural-Urban linkages and livelihood diversification 6. Distress livelihood diversification 7. Summary, References and appendix.

749. S. FAZAL DAUD FIRDAUSI
Changing Nature of Tourists and Tourism in India : A Politico-Geographic Analysis
 Supervisors : Dr. Anshu and Dr. Barkatullah Khan
Th 20391

Contents

1. Introduction 2. Study area 3. Conceptual framework and review of literature 4. Geographical parameters of tourism development in urban tourist centres of India 5. Quest of authenticity and commodification of tourism 6. Commercialism and rise of theme parks 7. Characteristics of post-tourists 8. Political culture and tourist motivation 9. Conclusion. Bibliography and appeneices.

GEOLOGY

750. MISHRA (Bhupendra Kumar)
Source, Sink and Pathways of Arsenic and Other Heavy Metals Contamination in West Bengal.
 Supervisor : Prof. C.S. Dubey
Th 20389

Contents

1. Introduction 2. Geology and petrology 3. Hydrogeochemistry of water 4. Geochemistry of coal, fly ash and soil 5. Arsenic speciation and mobilization 6. Conclusion.

751. RAVINDRA PRATAP SINGH
**Geophysical and Geotechnical studies for Slope Stability
 Analysis In parts of Chenab River Basin, J & K.**
 Supervisor : Prof. C.S. Dubey
Th 20328

Contents

1. Introduction 2. Geology 3. Geomorphology 4. Geophysical studies 5. Geotechnical studies 6. Conclusion.

HINDI

752. अमरजीत कौर
नारी केन्द्रित उपन्यासों में नारी का स्वरूप एवं विकास
 निर्देशक : प्रो. गोपेश्वर सिंह
Th 20344

विषय सूची

1. हिन्दी उपन्यास का उदय और प्रेमचंद पूर्व हिन्दी उपन्यासों में नारी (1870-1917)
 2. प्रेमचन्द युगीन हिन्दी उपन्यासों में नारी (1918-1936) 3. प्रेमचन्दोत्तर
 उपन्यासों में नारी (1936-1946) 4. हिन्दी का महिला-लेखन और नारी का
 स्वरूप 5. स्त्रीवादी अध्ययन की नई दृष्टियां और समकालीन उपन्यासों में नारी
 (1981-2000) 6. उपसंहार। ग्रंथ-सूची।

753. चौधरी (मनीष कुमार)
स्वातंत्र्योत्तर हिन्दी उपन्यास में वृद्धावस्था : सामाजिक-सांस्कृतिक संदर्भ में।
 निर्देशक : प्रो. अपूर्वानन्द
Th 20346

विषय सूची

1. वृद्ध मनोविज्ञान और उसके विविध पहलू 2. परिवर्तन का सच ओर वार्धक्य
 के विविध स्वरूप 3. वार्धक्य के विविध स्वरूप ओर स्वातंत्र्योत्तर कथा-साहित्य 4.
 स्वातंत्र्योत्तर हिन्दी उपन्यासों में वृद्धावस्था के विविध आयाम 5. स्वातंत्र्योत्तर हिन्दी
 उपन्यास में वार्धक्य के प्रति दृष्टि ओर व्यवहार के पहलू 6. उपसंहार। संदर्भ ग्रंथ सूची।

754. पूनम
नवजागरण के संदर्भ में बदरी नारायण चौधरी प्रेमघन का साहित्य।
निर्देशिका : डॉ. आशा जोशी
Th 20377

विषय सूची

1. नवजागरण का अर्थ और स्वरूप 2. बदरीनारायण चौधरी 'प्रेमघन' जीवनवृत्त तथा कृतित्व 3. राजनीतिक व आर्थिक परिदृश्य 4. सामाजिक व धार्मिक अवस्थिति का संदर्भ 5. भाषिक विमर्श 9. उपसंहार। संदर्भ ग्रंथ सूची।

755. महतो (निरंजन)
हिन्दी उपन्यास पर स्वतंत्रता पूर्व भूमिगत क्रान्तिकारी आंदोलन का प्रभाव।
निर्देशक : डॉ. समीक्षा ठाकुर
Th 20316

विषय सूची

1. क्रान्ति का स्वरूप और सैद्धांतिकी 2. स्वतंत्रतापूर्व हिन्दी उपन्यासों पर क्रान्तिकारी आंदोलन का प्रभाव 3. स्वांत्रयोत्तर हिन्दी उपन्यास पर क्रान्तिकारी आंदोलन का प्रभाव 4. हिन्दी उपन्यास में चित्रित क्रान्तिकारी आंदोलन की उपादेयता 5. क्रान्तिकारी आंदोलन का हिन्दी उपन्यास के कला पक्ष पर प्रभाव 6. उपसंहार, परिशिष्ट तथा संदर्भ ग्रंथ सूची।

756. मीणा (जयसिंह)
समकालीन हिन्दी कथा साहित्य में आदिवासी जीवन की समस्याएँ।
निर्देशक : डॉ. भगवती प्रसाद शर्मा
Th 20317

विषय सूची

1. आदिवासी समाज-परिभाषा व स्वरूप 2. हिन्दी कथा साहित्य में आदिवासी जीवन का आर्थिक एवं राजनीतिक पक्ष 3. हिन्दी कथा साहित्य में आदिवासी जीवन का धार्मिक और सामाजिक-सांस्कृतिक पक्ष 4. हिन्दी कथा-साहित्य में आदिवासी महिलाओं की समस्याएं 5. समकालीन कथा साहित्य और आदिवासी जीवन के बदलते आयाम (वर्तमान के संदर्भ में) 6. उपसंहार। संदर्भ ग्रंथ सूची।

757. मीना (हनुमत लाल)
कल्पना लाजमी की फिल्मों का स्त्रीवादी अध्ययन।
निर्देशक : डॉ. हरीश नवल
Th 20345

विषय सूची

1. स्त्रीवादी सैद्धांतिकी : अवधारणा एवं विकास 2. हिन्दी सिनेमा : समाज और स्त्री 3. स्त्री आंदोलन और हिन्दी सिनेमा 4. हिन्दी सिनेमा और कल्पना लाजमी 5. कल्पना लाजमी की फिल्मों में चित्रित स्त्री का स्वरूप 8. उपसंहार, परिशिष्ट तथा संदर्भ ग्रंथ सूची।

758. रस्तोगी (योगेश)
हिन्दी रंगमंच के विकास में पृथ्वी थियेटर का योगदान।
निर्देशक : प्रो. अपूर्वानंद
Th 20314

विषय सूची

1. हिन्दी रंगमंच का विकास 2. पृथ्वीराज कपूर का व्यक्तित्व (सामाजिक, फिल्म अभिनेता, रंग अभिनेता तथा राज्यसभा सदस्य) 3. पृथ्वीराज कपूर के समय में पृथ्वी थियेटरस और हिन्दी रंगमंच 4. 1978 के बाद पृथ्वी थियेटर की रंग गतिविधियों और रंगमंच के विकास में उनका योगदान 5. उपसंहार, परिशिष्ट तथा संदर्भ ग्रंथ सूची।

759. राजीव कुमार
स्वातंत्र्योत्तर समाज तथा हिन्दी कहानी में समय, संवेदना और शिल्प की अंतर्निर्भरता : संरचनात्मक विकास के संदर्भ में।
निर्देशक : डॉ. संजीव कुमार
Th 20342

विषय सूची

1. समाज-संरचना एवं कथा-संरचना का अंतस्संबंध 2. भारतीय समाज की संरचना एवं हिन्दी कहानी का विकास 3. स्वातंत्र्योत्तर समाजिक संरचना एवं नयी कहानी का शिल्प-गठन 4. सन् साठ के बाद के विभिन्न कहानी आंदोलन 5. समकालीन कहानी 6. उपसंहार। संदर्भ सामग्री।

760. शर्मा (कृति)
हिंदी के बालनाटक और शिक्षा मनोविज्ञान।
निर्देशक : डॉ. दिनेशकुमार गुप्ता
Th 20343

विषय सूची

1. शिक्षा मनोविज्ञान : अवधारणा, स्वरूप एवं क्षेत्र
2. हिन्दी बालसाहित्य में बालनाटक
3. हिन्दी के बालनाटक और शिक्षा मनोवैज्ञानिक अवधारणाएं
4. हिन्दी के बालनाटक और शिक्षा मनोवैज्ञानिक सिद्धान्त
5. हिन्दी के बालनाटक और रंगमंच
6. उपसंहार। संदर्भ ग्रंथ सूची।

761. शर्मा (दीपक)
टेलीविजन माध्यम की हिन्दी समाचार प्रस्तुतियों का दृश्य एवं भाषिक अध्ययन।
निर्देशक : डॉ. स्मिता मिश्र
Th 20376

विषय सूची

1. चिह्नशास्त्रीय प्रविधि : परिचय एवं विकास यात्रा
2. टेलीविजन का चिह्नशास्त्र और चिह्न निर्माण की स्थितियों
3. प्राइम टाइम समाचारों की विविध प्रस्तुतियों का विश्लेषण
4. टेलीविजन समाचार प्रसारणों का दृश्य एवं भाषिक अध्ययन
5. टेलीविजन समाचारों के विविध क्षेत्रों का दृश्य एवं भाषिक अध्ययन
6. उपसंहार। संदर्भ ग्रंथ सूची।

762. सुधांशु कुमार
दिल्ली केन्द्रित हिन्दी उपन्यास और महानगरीय परिदृश्य ।
निर्देशक : प्रो. गोपेश्वर सिंह
Th 20315

विषय सूची

1. नगर : अवधारणा एवं विकास के विभिन्न चरण
2. दिल्ली : मिथक एवं इतिहास
3. महानगर केन्द्रित हिन्दी उपन्यास की परंपरा और दिल्ली
4. दिल्ली महानगर की सामाजिक संरचना और हिन्दी उपन्यास
5. दिल्ली केन्द्रित हिन्दी उपन्यासों में समाज के विभिन्न वर्गों का चित्रण
6. दिल्ली केन्द्रित हिन्दी उपन्यास: भाषिक संरचना एवं शिल्प
7. उपसंहार। संदर्भ ग्रंथ सूची।

HISTORY

763. CHOUDHARY (Manisha)
Political and Religious Dignitaries in the Court Protocol of the Jaipur State : Early-Eighteenth to Early-Nineteenth Century.
 Supervisor : Prof. R. P. Rana
Th 20307

Contents

1. Introduction 2. Jaipur state and its apparatus 3. Royal household (rajlok) 4. State and the religious dignitaries 5. Political dignitaries and court protocol 6. Marathas in the jaipur court 7. Court protocol and social ordering in jaipur state 8. Conclusion, appendix and bibliography.

764. MALIK (Kalpana)
Maratha-Rajput Relations During the Eighteenth Century.
 Supervisor : Prof. R. P. Rana
Th 20282

Contents

1. Introduction 2. Maratha intervention in Rajasthan : 1730-1760 (Part I) 3. Maratha intervention in Rajasthan : 1761-1794 (Part II) 4. Economic impact of the Maratha presence in Jaipur and Jodhpur states 5. Diplomatic ties and socio-cultural cooperation between the Marathas and the Rajputs 6. Maratha occupation of Rajasthan and Rajput Resistance. 7. Conclusion, glossary and bibliography.

HOME SCIENCE

765. CHAHAL (Manpreet)
Development of Training Modules for Gainful Employment of Persons with Locomotor and Sensory Disabilities in Garment Manufacturing Units.
 Supervisors : Dr. Seema Sekhri and Dr. Ritu Mathur
Th 20306

Contents

1. Introduction 2. Review of literature 3. Materials and methods 4. Results and discussion 5. Summary and conclusions. Bibliography and appendices

766. GOYAL (Nidhi)
Studies on Titanium Dioxide Nanoparticle Dispersions for Self Cleaning Textiles
 Supervisors : Dr. Deepali Rastogi and Dr. Ashwini K. Agrawal
Th 20305

Contents

1. Introduction 2. Review of literature 3. Materials and methods
 4. Results and discussion. 5. Summary and conclusions.
 Bibliography.

767. JHAMB(Bhumika)
Womens's Participation in the Mahatma Gandhi National Rural Employment Guarantee Act: An Appraisal.
 Supervisor : Dr. Archana Kumar
Th 20304

Contents

1. Introduction 2. Review of literature 3. Methodology 4. Finding
 and discussion 5. Summary, conclusions and recommendations.
 References and appendices.

768. KHER(Jagriti)
Climate Change and Water Poverty: Assessing Vulnerability of Women .
 Supervisors : Dr. Savita Aggarwal and Dr. Geeta Punhani
Th 20329

Contents

1. Introduction 2. Review of literature 3. Materials and methods
 4. Results and discussion 5. Summary and conclusions.
 Referances and annexures.

769. SACHDEVA (Kanika Bhatia)
Study on Conservation of Textiles in Museums.
 Supervisors : Dr. Mona Suri and Dr. Simmi Bhagat
Th 20326

Contents

1. Introduction 2. Review of literature 3. Materials and methods
 4. Results and discussion 5. Summary and conclusions.
 Bibliography and appendices.

LAW

770. GAUTAM (Upma)
Corruption and Anti-corruption Laws : Constraints in Investigation and Trial of Anti-Corruption Cases.
 Supervisor : Prof. Usha Razdan
Th 20339

Contents

1. Introduction 2. Research methodology 3. Corruption effecting governance and rule of law 4. Institutional framework against corruption 5. Legal framework against corruption 6. Constraints in investigation and trial of corruption cases: An empirical study 7. Conclusion and suggestions. Appendixs and bibliography.

771. BHARDWAJ (Dinesh Rattan)
Legal Regulation of Space Debris-Problems and Prospects
 Supervisor : Prof. J.L. Kaul
Th 20338

Contents

1. Introduction 2. The historical overview of space law 3. Resources, sources, types, and impact of space debris 4. Existing legal regime applicable to space debris 5. National space laws 6. Proposed international legal regime needed for regulation of space debris 7. Conclusions and recommendations. Appendix and bibliography .

772. PUNJ(Amita)
Development of Special Economic Zones and its Impact on Labour Rights and Livelihood in National Capital Region.
 Supervisor : Prof. B.T. Kaul
Th 20367

Contents

1. Introduction 2. Normative ramework of labour rights 3. Right to livelihood: Normative framework, issues and concerns 4. labour regime within sez law 5. Profile of respondents with specific reference to livelihood concerns. 6. Seza in ncr : The question of decent work. 7. Unionisation and social dialogue in sezs. 8. Enforcement of labour rights in sezs. 9. Conclusions and suggestions. Bibliography and appendices.

LIBRARY AND INFORMATION SCIENCE

773. RAI (Mamrata)
Information retrieval interface of Electronic Databases in Social Sciences: A Study of Users Perspective in Select Libraries of Delhi.
 Supervisor : Dr. Shailendra Kuamr
Th 20360

Contents

1. Introduction 2. Literature review 3. Information retrieval interface of e-journal database systems 4. Caomparison of various ir interfce features of e-journal database system 5. General usability of ir interface of e-journal database system 6. User experience related to usability of ir intraface of thir most preferred selected e-journal 7. Findings, conclusion and suggestions for further research. Bibliography and appendices.

MANAGEMENT STUDIES

774. CHRISTOPHER NGACHO
Assessment of the Performance of Public Section Construction Projects : An Empirical Study of Projects Funded Under Constituency Development Fund (CDF) in Western Province, Kenya
 Supervisor : Dr. Debadyuti Das
Th 20385

Contents

1. Overview of the study 2. Review of literature 3. Public construction sector in kenya and the constituency development fund (CDF) : An overview 4. Research methodology (Phase i): Exploratory study 5. Research findings and discussion (Phase i) 6. Research methodology (Phase ii): Confirmatory study 7. Research findings and discussion (Phase ii) 8. Conclusion. References and appendices.

775. GUPTA (Rakesh)
Role of Strategic and Entrepreneurial Orientation in the Growth of SMEs.
 Supervisor : Prof. Ajay Pandit
Th 20353

Contents

1. Introduction 2. Literature review 3. Hypotheses development.
 4. Research design and methodology 5. Research findings 6.
 Discussion, implications and conclusions. References and
 appendix.

776. TEOTIA (Shashank)
Involving the Individual at Work : A Comparative Study of Need Gratification Theory
 Supervisor : Dr. Sunita Singh Sengupta
Th 20392

Contents

1. Literature review 2. Aims, objective and hypothesis 3.
 Research methodology 4. Results. 5. Findings of the study 6.
 Summary 7. Merging the literature review. Bibliography,
 annexures and appendices.

777. YOGESH SUMAN
Knowledge Flow from Government R & D Institutions to SME's ITs Role in Value Additions: The Indian Perspective.
 Supervisor : Prof. Ajay Pandit
Th 20393

Contents

1. Introduction 2. Government R & D infrastructure 3. Small
 and medium enterprises (SMEs) 4. Literature review 5. Case
 studies. 6. Research design 7. Data analysis 8. Findings and
 conclusions. References and annexures.

MATHEMATICAL SCIENCE
COMPUTER SCIENCE

778. AAKANKSHA
Mobile Process Groups Based Trustworthy Coordination in Ad-Hoc Networks.

Supervisor : Dr. Punam Bedi
Th 20356

Contents

1. Introduction 2. Basic concepts 3. MPG ware: MPG based trustworthy coordination framework 4. Trustworthy group co-ordination 5. Ant-based adaptive routing 6. Tackss: Trust and context view-based knowledge sharing system 7. Conclusion. Screenshots, list of publications and references.

779. GUPTA (Bhavna)
Trust-based multiagent Service Recommender System

Supervisors : Dr. Punam Bedi and Dr. Harmeet Kaur
Th 20354

Contents

1. Introduction 2. Overview of recommender systems 3. Framework for trust-based multiagent service recommender 4. Selection of trustworthy service providers 5. Determination of trustworthiness of requestor of services 6. Experimental study 7. Conclusions. Research publications and annexures.

780. GUPTA(Karan)
Framework for Web 2.0 Elements in Web Application

Supervisor : Dr. Anita Goel
Th 20355

Contents

1. Introduction: Framework for web 2.0 elements in web application 2. Web application and web 2.0. 3. Requirement for blog 4. Design and estimation for blog software 5. Requirements for tag 6. Design and estimation for tag software. 7. Rss, mashup and wiki in web application 8. Framework for web 2.0 elements. 9. Conclusion and future work 10. Case study: Design and estimation fo blog 11. Framework for specific web 2.0 element 12. Development and testing of web application. References.

781. SUSHIL KUMAR
Data Hiding in Digital Images Using Steganography.
 Supervisor : Dr. S.K. Muttoo
Th 20384

Contents

1. Introduction 2. Image steganography using error correction codes 3. Self-synchronizing image steganographic algorithm based on DCT 4. Image steganography based on wavelet transforms 5. Image steganography based on slantlet transform 6. Image steganography based on contourlet transform 7. Image steganography based on complex wavelet transform 8. Reversible image steganography based on wavelets and wavelet-like-transform 9. Reversible image steganography based on contourlet transform 10. Reversible image steganography based on complex wavelet transforms 11. Conclusions and future scopes. Appendices and bibliography.

MATHEMATICAL SCIENCE
 MATHEMATICS

782. KOHLI(Bhawna)
Certain Aspects of Optimization, Bilevel and Variational Inequality Problems Using Convexifactors.
 Supervisor : Dr. Surjeet Kaur Suneja
Th 20394

Contents

1. Introduction 2. Optimality and duality for nonsmooth programming problems 3. Optimality and duality for bilevel programming problems 4. Relation of variational inequalities with bilevel programming and vector optimization problems. Scope for further research and bibliography.

783. SAHNI (Niteesh)
Invariance in Hardy Spaces.
 Supervisor : Prof. Dinesh Singh
Th 20382

Contents

1. Introduction 2. Invariance in BMOA 3. Lax-Halmos type theorems in H^p Spaces 4. Invariance in certain Sub-Hilbert Spaces of H^p . Bibliography.

MATHEMATICAL SCIENCE
OPERATIONAL RESEARCH

784. MAKKAR (Sandhya)
Procurement-Distribution Coordination in Supply Chain under Quantity Discounts and Varying Truckload Policies.
Supervisors : Dr. P.C. Jha and Prof. Davinder Bhatia
Th 20383

Contents

1. Introduction 2. Single source-single destination coordination.
3. Single source-multiple destination coordination 4. Multiple source-multiple destination coordination 5. Two stage single source-multiple destination coordination. Conclusions and directions for future research, appendices and references.

MEDICAL SCIENCE
BIOCHEMISTRY

785. DIXIT (Richa)
Study of Inducible Nitric Oxide synthase Mutant and Promoter Variant Along with Pro-Inflammatory Markers in Patients with Coronary Artery Disease.
Supervisors : Dr. Jayashree Bhattacharjee, Dr. S. Tyagi,
Dr. M.K. Bhatnagar and Dr. M.A. Q. Pasha
Th 20319

Contents

1. Introduction 2. Review of literature 3. Purpose of the study 4. Aims and objectives 5. Materials and methods 6. Results 7. Discussion 8. Summary and conclusion 9. References.

786. PANDEY (Sanjeev Kumar)
Role of Biomarkers CCL 18/PARC and Heparin- Thrombin II Cofactor for diagnosis and Moinitoring of Lysosomal Storage Disorders in Indian Children.
Supervisors : Dr. Anand Prakash Dubey and
Dr. Tarun Kumar Mishra
Th 20318

Contents

1. Introduction 2. Review of literature 3. Aims and objectives 4. Materials and methods 5. Results 6. Discussion 7. Summary. 8. Conclusion 9. Bibliography and appendixs.

MEDICAL SCIENCE PHYSIOLOGY

787. CHANDRA(Shalu)
Neuroprotective Effect of Baicalein, Resveratrol, Quercetin and Astaxanthin in Young and Aged Rat Model of Parkinson's Disease.
 Supervisors : Dr. Bal Krishana and Dr. R.K.Saran
Th 20364

Contents

1. Introduction 2. Aims and objectives 3. Review of literature 4. Material and methods 5. Result. 6. Discussions. Summary and conclusions 8. References 9. Publications and presentations.

788. CHAUDHARY (Nidhi)
To Study the Effect of Probiotic on Endotoxin Mediated Activation of Hepatic Stellate Cell in Animal Model of portal Hypertension.
 Supervisors : Dr. Rashmi Babbar and Dr. S.K. Sarin
Th 20363

Contents

1. Introduction 2. Review of literature 3. Aims and objectives, material and method 4. Results 5. Discussion 6. Summary and conclusion. References.

MICROBIOLOGY

789. SHRIVASTAVA (Bhuvnesh)
Bioconversion of Wheat Straw in to Animal Feed by Solid State Fermentation.
 Supervisor : Prof. R.C. Kuhad
Th 20321

Contents

1. Introduction 2. Review of literature 3. Materials and methods.
4. Observation and results 5. Discussion 6. Summary and
conclusion. Bibliography.

790. VINOD KUMAR
**Rhizopus Oryzae Lipase: Process Optimization, Purification,
Characterization, Scale up and its Comparative Evaluation
with Other Microbial Lipases for Industrially Important
Reactions.**
Supervisor : Prof. R. K.Saxena
Th 20322

Contents

1. Introduction 2. Review of literature 3. Materials and methods.
4. Observations and results 5. Discussion 6. Summary and
conclusions 7. Future prospects 8. Bibliography. Appendixs.

MODERN INDIAN LANGUAGES

791. MITRA (Kalpana)
**Popular Fiction in Bengali and the Position of Sharadindu
Bondhopadhy (1899-1970)**
Supervisor : Prof. Nandita Basu
Th 20310

Contents

1. Bhumika : Bangla papular fiction o Sharadindu Bandhopadhy
sthan 2. Banglar Janpriye sahityai o Sharadindu 3. Goyendra
kahani 4. Sharadindu etihashik upnayas. 5. Sharadindu anyan
rachna -Bhuter Galp, romantic premer Galp o Chhoteder Galp 6.
Sharadindu Bhusha o rachnashelly 7. Upsanghar and granthpanji.

MUSIC

792. अनुपमा कुमारी
वर्तमान समय में गिटार वाद्य की विभिन्न वादन शैलियों का तुलनात्मक अध्ययन।

निर्देशक : डॉ. राजीव वर्मा

Th 20337

विषय सूची

1. भारतीय वाद्यों का उद्भव एवं विकास 2. हिन्दुस्तानी शास्त्रीय संगीत में गिटार वाद्य 3. गिटार वाद्य की वादन विधि 4. प्रसिद्ध गिटार वादकों की वादन विधि एवं नवीन प्रयोग 5. विभिन्न गिटार वादक कलाकारों के वादन शैलियों का तुलनात्मक अध्ययन 6. कुछ प्रतिष्ठित गिटार वादकों का संक्षिप्त जीवन परिचय 7. विभिन्न गिटार वादकों एवं गिटार के कारीगरों से लिए गए साक्षात्कार 8. उपसंहार। संदर्भ ग्रंथ सूची।

793. ALAWATHUKOTUWA (M.A.G.M.S.B.)
Evolution of Sound Recording Techniques and Their Impact on the Growth of Music in Sri Lanka.
Supervisor : Dr. Ojesh Pratap Singh
Th 20323

Contents

1. Geographical features and consise history of Sri Lanka 2. Music of Sri Lanka 3. History of the sound recording technology 4. Technological advancement in music recording 5. History of music recording in Sri Lanka 6. Music in Sri Lankan Society 7. Impact of recording techniques on the growth of music in Sri Lanka 8. Conclusion, bibliography and appendix.

794. CHATTERJEE (Arnab)
Comprehensive Study of Dhrupad and Bengali Padavali Kirtan with Special Reference to Tala
Supervisors : Prof. Anjali Mittal and Prof. Krishna Bisht
Th 20397

Contents

1. Introduction 2. The origin and development of dhrupad 3.

Features and characteristics of dhrupad 4. Bengali padavali kirtan: Origin and development 5. Characteristic features of Bengali padavali kirtan 6. Various facets of tala and its place in dhrupad and Bengali padavali kirtan 7. Analysis of dhrupad and Bengali padavali kirtan compositions set to various talas 8. Conclusion and bibliography.

795. जोशी (अंशु)
तत् वाद्यों के संदर्भ में ग्रंथों में वर्णित अभ्यास क्रम के परिवर्तित स्वरूप का विश्लेषणात्मक अध्ययन।
निर्देशक : डॉ. प्रतीक चौधुरी
Th 20398

विषय सूची

1. भारतीय संगीत में 'अभ्यास' से तात्पर्य, महत्व तथा वाद्य वर्गीकरण 2. तत् वाद्य 'वीणा' नाट्यशास्त्र व 'संगीत रत्नाकर' के अनुसार वादन शिल्प 3. मिज़राब से बजाये जाने वाले कुछ प्रमुख तत् वाद्य व अभ्यास क्रम 4. मिज़राब से बजाये जाने वाले वर्तमान में प्रचलित तत् वाद्य 'सितार' व अभ्यास क्रम 5. साक्षात्कार, विश्लेषण, उपसंहार, चित्रावली तथा संदर्भ ग्रंथ सूची।

796. ममगौड़ (मनीष)
कोलकाता में निर्मित सारिकायुक्त तंत्री वाद्यों का वैशिष्ट्य व वाद्य-निर्माताओं का योगदान।
निर्देशिका : प्रो. सुनीरा कासलीवाल व्यास
Th 20396

विषय सूची

1. तंत्री वाद्यों का ऐतिहासिक विकास, बनावट एवं निर्माण विधि के विशेष संदर्भ में 2. सारिकायुक्त तंत्री वाद्यों का ऐतिहासिक विवरण एवं निर्माण विधि 3. कोलकाता में निर्मित सारिकायुक्त तंत्री वाद्यों का वैशिष्ट्य 4. कोलकाता के वाद्य निर्माताओं का जीवन परिचय एवं वाद्य-निर्माण में उनका योगदान 5. साक्षात्कार 6. उपसंहार, परिशिष्ट, चित्रावली तथा संदर्भ ग्रंथ सूची।

797. राय (विपुल कुमार)
 भारतीय शास्त्रीय संगीत के परिप्रेक्ष्य में संतूर वाद्य में किए गए परिवर्तनों
 का विश्लेषणात्मक अध्ययन ।
 निर्देशक : प्रो. अलका नागपाल
Th 20325

विषय सूची

1. भारतीय संगीत में वाद्यों की परंपरा 2. संतूर वाद्य की उत्पत्ति एवं विकास 3. संतूर की बनावट एवं वादन सामग्री 4. संतूर पर प्रस्तुत शास्त्रीय संगीत के अभिव्यक्ति के तत्त्व 5. संतूर के प्रमुख कलाकार एवं उनकी शैलीगत विशेषताएं 6. उपसंहार संदर्भ ग्रंथ सूची तथा चित्रावली ।

798. लाहौरा (पंकज)
 हज़रत अमीर खुसरो का उपशास्त्रीय संगीत को योगदान : एक अध्ययन।
 निर्देशक : डॉ. प्रतीक चौधुरी
Th 20399

विषय सूची

1. हज़रत अमीर खुसरो की संक्षिप्त जीवनी ओर उनका व्यक्तित्व व चरित्र 2. हज़रत अमीर खुसरो के हिन्दुस्तानी संगीत में योगदान के महत्वपूर्ण स्रोत 3. हिन्दुस्तानी शास्त्रीय संगीत में हज़रत अमीर खुसरो की खयाल बंदिशें, तराना बंदिशें, अवष्कृत राग एवं तालें 4. हिन्दुस्तानी उपशास्त्रीय संगीत में हज़रत अमीर खुसरो का योगदान 5. अमीर खुसरो के हिन्दुस्तानी संगीत में योगदान पर संगीतज्ञों और शोधकर्ताओं के साक्षात्कार 6. उपसंहार। संदर्भ ग्रंथ सूची।

799. शेरअली
 हिन्दुस्तानी शास्त्रीय संगीत में ब्रज, भोजपुरी एवं अवधी भाषागत
 रचनाओं का सांगीतिक मूल्यांकन।
 निर्देशक : डॉ. शैलेन्द्र कुमार गोस्वामी
Th 20324

1. ब्रज, भोजपुरी एवं अवधी भाषाओं से संबंधित क्षेत्रों का सांस्कृतिक अवलोकन
2. ब्रज, भोजपुरी एवं अवधी भाषाओं से संबंधित बन्दिशों का काव्यात्मक मूल्यांकन
3. ब्रज, भोजपुरी एवं अवधी भाषा में रचित ख्याल गायन शैली से संबंधित रचनाओं का सांगीतिक अध्ययन
4. ध्रुपद, धमार गायन शैलियों से संबन्धित रचनाओं का (ब्रज, भोजपुरी एवं अवधी) साहित्यिक एवं सांगीतिक अध्ययन
5. उपसंहार। संदर्भ ग्रंथ सूची।

PERSIAN

800. ZAFER IMAM

Critical Edition of Lataif-E-Quddusi with Necessary Annotations.

Supervisor : Prof. Rehana Khatoon

Th 20309

Contents

1. Sufism and its various offshoots
2. Sufism since 16th century A.D.
3. Abdul quddus gangohi
4. Critical editioin of lataife-quddusi
5. Annotations
6. Conclusion. Index and bibliography.

PHARMACY

801. BINIT KUMAR

To Study Protective Effects of Bioflavonoids on Retinal Neurovascular Degeneration in Diabetic rats.

Supervisors : Dr. B.P. Srinivasan and Dr. Rohit Saxena

Th 20368

Contents

1. Introduction
2. Review of literature
3. Aims, objective and lacunae
4. To study protective effects of hesperetin on retinal neurovascular degeneration in streptozotocin-induced type-i diabetic rats
5. To study protective effects of quercetin on retinal neurovascular degeneration in streptozotocin-induced type-I diabetic rats
6. Evaluation of moringa oleifera for the prevention of

diabetic retinopathy in STZ-induced type-I diabetic rats 7. Evaluation of fenugreek for the prevention of diabetic retinopathy in STZ-induced type-I diabetic rats 8. Evaluation of triphala for the prevention of diabetic retinopathy in STZ-induced type-I diabetic rats 9. Evaluation of ployherbal combination for the prevention of diabetic retinopathy in STZ-induced type-I diabetic rates 10. Conclusions, future scope and limitations 11. References.

PHYSICS AND ASTROPHYSICS

802. CHAMAN SINGH
Optical Investigations of Metal (In, Zn)-Oxide Semiconductor Thin Films
 Supervisor : Dr. Shyama Rath
Th 20300

Contents

1. Introduction 2. Fabrication and characterization techniques 3. Spectroscopic ellipsometry and multiphonon raman spectroscopic study of excitonic effects in ZnO films 4. Determination of optical constants, carrier concentration, and bandgap of ZnO thin films using spectroscopic ellipsometry 5. Raman and spectroscopic ellipsometry study of In_2O_3 Thin Films 6. Temperature dependent raman and photoluminescence study of ZnO nanoparticles 7. Summary and further scope.

803. MISHRA (Ajay)
Study of Variants, Exact Solutions and Applications of Nonlinear Diffusion-Reaction Equations.
 Supervisors : Dr. Awadhesh Prasad and Dr. R.S. Kaushal
Th 20330

Contents

1. Introduction 2. Variants of nonlinear diffusion-reaction equation 3. Solution of equations with nonlinear convective flux term and long range diffusion 4. Chemotaxis and/or memory effect in the NLDR equations 5. Scope of application of results 6. Summary and concluding remarks. References.

804. SHAHI (Monika)
Study of Carbon Nanotubes Based Field Emission Devices and Their Characterization.
 Supervisors : Prof. R.P. Tandon and Dr. Harsh
Th 20374

Contents

1. Introduction of carbon nanotubes: Properties, synthesis, characterization and applications 2. Electron emission techniques 3. Experimental techniques 4. Work function engineering 5. Thermal engineering. 6. Structural engineering. 7. Conclusions and future plans. List of publications.

805. SURENDER KUMAR
Optical Properties of Some Wide Band Gap Semiconducting Nanomaterials and Their Applications.
 Supervisor : Prof. P.D. Sahare
Th 20373

Contents

1. Introduction and aim of the present work 2. Characterization techniques 3. Effects of annealing and hydrothermal reaction temperature on the surface defects of ZNO nanoparticles 4. Rareearth elements doped ZNO nanoparticles 5. Photocatalytic and sonocatalytic activity of $\text{Bi}_4\text{V}_2\text{O}_{11}$ for the degradation of organic compounds 6. Effects of annealing on optical and photocatalytic properties of SNO_2 nanoparticles 7. Summary and scope for future study. Index and references.

806. VINAY KUMAR
Thermal Structure of Earth's Troposphere and Stratosphere: A Study Based on COSMIC/FORMOSAT-3 Observation.
 Supervisor : Dr. S.K. Dhaka
Th 20372

Contents

1. Introduction 2. Satellite observations and methodology to derive atmospheric parameters 3. Impact of quasi-biennial oscillation on the inter annual variability of the tropopause height and temperature in tropics 4. Occurrence of coldest temperature in stratospheric region and tropical tropopause stability 5. Atmospheric behavior of polar and tropical region during 2009 sudden stratospheric warming (SSW) event-a case study 6.

Seasonal variation of pressure at cold point tropopause (P-CPT) and its relation with tropical easterly jet (TEJ) 7. Summary and concluding remarks. References.

PLANT MOLECULAR BIOLOGY

807. BORAH (Pratikshya)
Transcriptome Analysis of Contrasting Drought-responsive Cultivars of Rice and Functional Characterization of an F-box Protein Encoding Gene, OsFBK1.
 Supervisors : Prof. Jitendra. P. Khurana
Th 20366

Contents

1. Review of literature 2. Materials and methods 3. Results and discussion 4. Summary and conclusion 5. References and appendixs.

808. NAYAR(Saraswati)
Delineation of Function of MADS29 Transcription Factor During Seed Development in Rice.
 Supervisor : Dr. Sanjay Kapoor
Th 20320

Contents

1. Review of literature 2. Materials and methods 3. Results 4. Discussion and conclusions 5. References and appendix.

POLITICAL SCIENCE

809. ANUSHA
Imaginings of Political Community: A Study of Land Struggle Movements in Jharkhand.
 Supervisor : Prof. Ujjwal Kumar Singh
Th 20379

Contents

1. Imaginings of political community: Explorations through the prism of land 2. 'Domesticizing' land by the state: Concepts and

legislations 3. Contextualizing jharkhand : The journey of land assertion movements 4. Gaon chodab nahi: Travelling the terrains of potka block 5. Our homeland belongs to our people: Nagdi village. Concluding observations, glossary, bibliography and annexures.

810. KHANIKAR (Santana)
State, Violence and Legitimation Practices in India.
 Supervisor : Prof. Ujjwal Kumar Singh
Th 20351

Contents

1. State, violence and legitimacy : A conceptual exploration 2. Custodial violence and everyday policing in delhi: Portrayal of the self and notions of justice and fairness in a police station 3. Police-people interactions and its implications: Performances, perceptions and legitimacy 4. ULFA, the state and society in lakhipathar: The early confrontation 5. Memories of violence and the politics of remembrance. Conclusions, bibliography and annexures.

811. ROUL (Kamalakanta)
Kandhamal Violence and the State: A Study of the Politics of Ethnicity, Caste, Class and Religion.
 Supervisor : Dr. N. Sukumar
Th 20380

Contents

1. Introduction, the veracity and vicinity of violence: Poverty, cultural identity, state and civil society in kandhamal 2. Theorization on violence: Quest for a new perspective 3. Understanding communal violence in odisha: Shifting paradigms of communal approach 4. Context of kandhamal violence: Political economy of ethnicity, caste, class and religion 5. Kandhamal violence: The process and the events 6. Kandhamal violence: Role of the state 7. Kandhamal violence: Role of civil society 8. Conclusion, references, bibliography and annexure.

812. ROY (Arindam)
Impact of Socio-Cultural Diversity on Delivery of Health Services in India : A Case Study in the District of Burdwan (West Bengal) : 1991-2009
 Supervisor : Prof. Bidyut Chakrabarty
Th20359

Contents

1. The conceptual and historical parameters 2. Public health in India 3. The universe of study: Introducing burdwan 4. Delivery of health services from the receivers perspective: The quantitative analysis 5. Delivery of health services from the deliverers' and receivers' perspectives : The qualitative analysis. Summary of findings and conclusion, glossary, select bibliography and appendices.

813. SANGEETA
Reorienting Planning Commission in Liberalized Economy of India: Education and Health Sectors.
 Supervisor : Dr. Satyajit Singh
Th 20381

Contents

1. Introduction 2. Planning in liberalised economy 3. Planning for education and health sector 4. Human development 5. People's participation and development in India 6. Education and health sector in the state of Jharkhand 7. Education and health sector in the state of Chhattisgarh 8. Conclusion. Appendix and references.

PSYCHOLOGY

814. BHAWNA DEVI
Becoming a Woman: Explorations into the Experiences of Menstruation Amongst Adolescent Girls
 Supervisor : Dr. Rajni Sahni
Th 20311

Contents

1. Introduction 2. Review of literature 3. Method 4. Results 5. Discussion. Implications, limitations and direction for future research. References.

815. KAPUR (Shweta)
Enhancing Organizational Performance : A Positive Psychological Perspective.
 Supervisor : Dr. Neera Pant
Th 20349

1. Introduction and review of literature 2. Method 3. Results 4. Discussion 5. Implications, limitations and suggestions for future research 6. Summary and conclusions. References and appendices.

816. SHIFA HAQ
In Search of Return : A Psychodynamic Engagement with Survivors of the 'Missing' Individuals in Kashmir.
 Supervisors : Dr. Honey Oberoi Vahali and Dr. Ishita Upadhyay
Th 20350

Contents

1. Introduction 2. Review of literature 3. Methodology 4. Voices from Kashmir 5. Discussion and conclusion.

SANSKRIT

817. भान (वन्दना एस.)
 विश्वनाथदेवकृत साहित्यसुधासिन्धु का समालोचनात्मक अध्ययन।
 निर्देशिका : प्रो. दीप्ति शर्मा त्रिपाठी
Th 20340

विषय सूची

1. संस्कृत काव्यशास्त्र के विभिन्न सम्प्रदाय तथा साहित्यसुधासिन्धु का उनमें स्थान
 2. ग्रन्थ एवं ग्रन्थकार का परिचय 3. काव्य का लक्षण, प्रयोजन तथा भेद 4.
 शब्द-शक्ति चर्चा 5. रस एवं ध्वनि निरूपण 6. गुण दोष विवेचन 7. अलंकार
 विमर्श 8. उपसंहार। संदर्भ ग्रंथ सूची।

818. सुप्रिया संजू
 विष्णुपुराण का दार्शनिक अध्ययन ।
 निर्देशक : डॉ. पंकज कुमार मिश्र
Th 20375

विषय सूची

1. विष्णुपुराण पर हुए कार्यों का सर्वेक्षण 2. भारतीय दर्शन की विकासयात्रा 3. विष्णुपुराण एवं भारतीय दर्शन 4. विष्णुपुराण एवं सांख्य 5. विष्णुपुराण एवं विशिष्टाद्वैत 6. विष्णुपुराण एवं द्वैत 7. उपसंहार। संदर्भ ग्रंथ सूची।

819. सुमित्रा

ऋग्वेदीय एवं यजुर्वेदीय यज्ञों में यज्ञपात्र विधान एवं द्रव्यसामग्री का तुलनात्मक अध्ययन।

निर्देशिका : प्रो. शारदा शर्मा एवं प्रो. मदनमोहन अग्रवाल

Th 20341

विषय सूची

1. वेदों का संक्षिप्त परिचय 2. यज्ञपात्रों का परिचय 3. यज्ञपात्रों के प्रयोग की उपयुक्त विधि 4. यज्ञपात्रों का निर्माण-द्रव्य 5. ऋग्वेदीय एवं यजुर्वेदीय यज्ञों में प्रयुक्त हवि 6. यज्ञपात्रों एवं द्रव्यसामग्री का तुलनात्मक अध्ययन 7. उपसंहार। संदर्भ ग्रंथ सूची।

SOCIAL WORK

820. BHARDWAJ (Shivani)

Differential Resource Access : An Exploratory Study of Gender Resource Gaps in Delhi.

Supervisor : Dr. Mohd. Shahid

Th 20357

Contents

1. Gender resource gaps : An introduction and review of literature
2. Research methodology 3. Gender resource gaps : Multiple forms and manifold levels 4. Gender resource gaps : Locating quantum and interventions 5. Summary and conclusion 6. Differential resource access and ways forward. Bibliography and annexure.

821. PUSHPANJALI

Protests and Sites : A Study of Protest Movements Through Jantar Mantar

Supervisors : Dr. Manoj Kumar Jha and Dr. Seema Sharma

Th 20308

1. Introduction 2. Conceptual and methodological framework 3. Setting the context : Interrogating the protest, sites and the political 4. Protest and contentions in India via Jantar Mantar 5. Frames of protest : Master-frames of injustice and identity 6. Site of protest : Symbolic and political significance 7. Conclusion. Bibliography.

822. SAXENA (Rama)
Situational Analysis of Dropouts from Government Schools in a Resettlement Colony of Delhi : A Case Study.
 Supervisor : Prof. Sushma Batra
Th 20358

Contents

1. Introduction 2. Review of literature 3. Research methodology 4. Demographic profile of the respondents 5. Situational analysis of the school dropouts 6. Opinion and concerns of parents of school dropouts 7. Case studies and focus group discussions 8. Conclusion, recommendations and social work intervention model. References and appendices.

TECHNOLOGY
 APPLIED CHEMISTRY &
 POLYMER TECHNOLOGY

823. ARORA (Gopal)
Synthesis, Characterization and Evaluation of Epoxy/ Guar-Gum Based Polymer Composites.
 Supervisor : Prof. A.P. Gupta
Th 20331

Contents

1. Introduction 2. Review of literature 3. Experimental and characterization techniques 4. Studies on the modification of guar gum 5. Preparation of epoxy-allyl guar gum composites 6. Preparation of epoxy-allyl guar gum-g-poly. Summary and references.

TECHNOLOGY
APPLIED PHYSICS

824. MONIKA
Devices and Components Based on Negative Refraction: Theory and Design.
Supervisor : Dr. R.K. Sinha
Th 20332

Contents

1. Introduction 2. Tunable negative refraction with device application 3. Left-handed material for blue light emission and amplification 4. All-angle negative refraction for visible light with nano-phonic device application 5. Effect of different metallic nano-inclusions (ag, al, au and cu) on characteristics of left-handed photonic material 6. UV emission through second harmonic generation in left handed plasmonic optical material. 7. Summary and future scope and references.

URDU

825. AFSANA
Urdu Ghazal Par Iqbal Ki Shairy Ke Asraat
Supervisor : Prof. Tauqeer Ahmad Khan
Th 20313

Contents

1. Urdu ghazal ki rawayat 2. Iqbal ke masir ghazal go shora per Iqbal ki shairi ke Asraat 3. Taraqi passand ghazal go shora per Iqbal ki shairi ke asraat 4. Jadeed ghazal go shora per Iqbal ki shairi ke asraat 5. Hasil mutalah. Kitabiyat.

826. ASHARAF ALI
Ghalib Par Likhe Gaye Taziati Va Tahniati nazm Va Nasr ka Tahqiqi Jaiza.
Supervisor : Dr. M. Jafar Ahrari
Th 20378

Contents

1. Taziati name ka fun 2. Tahniati name ka fun 3. Ghalib per

likhe gaye taziati wa tahniati name : Uneesvi sadi mein 4. Ghalib per likhe gaye taziati wa tahniati name : Uneesvi sadi ke baad 5. Akhtatamiyah. Kitabiyat.

827. JAWAID RAHMANI JAWAID
Ilm-e-Bayan-o-Badi : Tareekh-o-Tasawarat.
 Supervisor : Dr. Abu Bakar Abbad
Th 20362

Contents

1. Ibtadaiya 2. Ilm-e-Bayan-o-Badi : Aghaz wa Irtaqa 3. Farsi mein Bayan-o-badi : Agtaz wa irtaqa 4. Baya-o-Badi aur sheryat 5. Bayan -o-badi aur daur-e-jadeed 6. Ilm Baya-o-badi : Tareekh aur tasawarat. 7. Hasil -e-kalam. Kitabiyat.

828. RAZI AHMAD
Numaenda Tanqeednigaroon ki Shaeri ka Tanqidi Mutalea : 1947 ke baad.
 Supervisor : Dr. Mohammad Kazim
Th 20361

Contents

1. 1947 se qabal ke tanqeed nigar shora : Ek ajmali jaiza 2. 1947 ke bad numaenda tanqeed nigar shora ka taruf aur unki tanqeedi wa adabi khidmat 3. 1947 ke baad numbaenda tanqeed nigaroon ki sheri hasiyat : Tanqeedi tehreeron ke hawaley se 4. 1947 ke bad ke numaenda tanqeed nigaroon ki shaeri ka funi wa fikri mutalea 5. 1947 ke bad ke numaenda tanqeed nigaroon ki shaeri ka taqabli mutalea 6. Hasil-e-Mutalea. Kitabiyat.

ZOOLOGY

829. BALI (Prerna)
Toll Like Receptor Polymorphisms in Relation to Malaria in the Indian Population.
 Supervisor : Prof. A.K.Singh and Dr. T. Adak
Th 20369

Contents

1. Introduction 2. Review of literature 3. Materials and methods 4. Results 5. Discussion and conclusion. Bibliography, synopsis, appendix and publications.

830. DEVRAJ SINGH
Molecular Analysis of Daily and Seasonal Timekeeping in Photoperiodic Songbirds.
 Supervisor : Prof. Vinod Kumar
Th 20327

Contents

1. General introduction 2. General materials and methods 3. Clock gene expression : Evidence for tissue specific circadian timing 4. Circadian timekeeping and metabolic genes : Implication for seasonal physiology. 5. Neuropeptide Y : mRNA and peptide localization in the brain 6. Synchronization to light and food cycles in 24h and abrupt light-dark environment 7. Summary. References, publications and presentations.

831. JASVINDER KAUR
Genomic Analysis, in-vitro Protein Refolding and Taxonomic Characterization of Sphingomonads.
 Supervisor : Prof. Rup Lal
Th 20301

Contents

1. Assembly, gap filling and annotation of the draft genome sequence of a hexachlorocyclohexane degrading bacterium *Sphingobium indicum* B90 A 2. Optimization and standardization of the parameters for the in-vitro purification and refolding of hexachlorocyclohexane haloalkane dehalogenase LinB of *Sphingobium* sp. SSO4-3 from inclusion bodies 3. Taxonomical characterization of a hexachlorocyclohexane non-degrader *Sphingomonas laterariae* LNB2^T isolated from Hexachlorocyclohexane dumpsite from India 4. Taxonomical characterization of hexachlorocyclohexane (HCH) degrader linB deficient mutant bacterium *Sphingobium baderi* LL03^T isolated from HCH dumpsite from Czech Republic. Appendices and list of publications.

832. MALLICK (Prashant Kumar)
Spread of Chloroquine Resistance and Gene Flow among Plasmodium Falciparum Isolates in India.
 Supervisor : Prof. A.K. Singh
Th 20371

Contents

1. Introduction 2. Review of literature 3. Aims and objectives 4.

Materials and methods 5. Experimental details 6. Results 7. Discussion. References, synopsis, publications and appendix.

833. NIHARIKA (Neha)
Reaction Kinetics of Hexachlorocyclohexane (HCH) Degradation by Genetic Variants of HCH Dehydrochlorinase (LinA) and Characterization of Bacterial Strains from HCH Dumpsites.
Supervisor : Prof. Rup Lal
Th 20302

Contents

1. Reaction Kinetics and determination of Specificity Constant (k_{cat}/K_M) of HCB Dehydrochlorinase (LinA) variants 2. Site-Directed Mutagenesis and Enantioselective transformation of α - and δ - HCH by HCH Dehydrochlorinase (LinA) variants 3. Purification and in vitro refolding of HCH Dehydrochlorinase (LinA γ 1-7) from bacterial inclusion bodies 4. Taxonomical characterization of novel bacteria from HCH contaminated dumpsites in India and Czech Republic. Appendices and List of Publications.

834. SINHA (Sonal)
Studies on Epigenetic changes in Liver Regeneration During Drug-induced Liver Injury in a Murine Model.
Supervisor : Prof. Madan Mohan Chaturvedi
Th 20370

Contents

1. Introduction 2. Review of literature 3. Materials and methods 4. Results 5. Discussion 6. Conclusions 7. Future perspectives. 8. Summary 9. Bibliography.