

UNIVERSITY OF ZIMBABWE



POSTGRADUATE CENTRE

Doctor of Philosophy (DPhil) Programme: 2017/2018 Intake

Applications are invited for the DPhil programme in the following Research Areas:

PROGRAMME	ENTRY REQUIREMENTS	DURATION	FEES STRUCTURE (per annum)
DPhil	A good and relevant MPhil/MA/MSc/MEd degree programme.	Full-time minimum (3 years) maximum (5 years) Part-time minimum (4 years) maximum (8 years)	Full-time US\$ Tuition 1 200,00 Mandatory <u>200,00</u> Total <u>1 400,00</u> Part-time US\$ Tuition 600,00 Mandatory <u>200,00</u> Total <u>800,00</u> NB: Successful applicants should also be prepared to meet the cost of incidental expenses related to their research

FACULTY OF AGRICULTURE	
DEPARTMENT	RESEARCH AREAS
SOIL SCIENCE AND AGRICULTURAL ENGINEERING	Soil Fertility Management; Post Harvest Science and Technology; Climate Change; Environmental Science and Natural Resources; Agricultural Engineering and Mechanisation.
CROP SCIENCE	Crop Production; Crop Pesticides and Management; Crop Breeding.
ANIMAL SCIENCE	Livestock Production; Animal Breeding; Livestock Products Processing.
AGRICULTURAL ECONOMICS	Rural Development Economics; Natural Resources Economics; Production Economics; Agro-food Marketing and Consumer Behaviour; Agricultural Policy Evaluation.

FACULTY OF ARTS	
DEPARTMENT	RESEARCH AREAS
AFRICAN LANGUAGES AND LITERATURE	Literature and Cultural Studies; Onomastics; Discourse Analysis; Popular/Cultural Studies; Theories of Literature; Oral Literature; Language and Gender; Popular Music; Children's Literature; Gender Studies; Language Planning; Policy Management; Interpreting; Dialectology and Orthography; Language Change; Comparative Bantu; Lexicography; Corpus Linguistics; Translation; Editing; Ethnomusicology; Musicology; Comparative Bantu Linguistics.
ECONOMIC HISTORY	Environmental History; Water/Irrigation Studies; Migration and Gender History; Agrarian Studies; Social and Economic Change; Agribusiness; Urban History.
ENGLISH	African Literature; Pan African Culture; Second Language Acquisition; Language and Literature; Literature and Gender; Media and Global Trends; Journalism; Public Relations; Communication for Development; Journalism and ICTs; Media, Conflict and Peace; Comparative Literature; Journalism Ethics.
FOREIGN LANGUAGES AND LITERATURE	French and Francophone Literatures; Queer and Gender Studies; Onomastics; Comparative Literature; Chinese Phonetics and Lexicology; Chinese-Shona Comparative Linguistics; Second Language Acquisition; Teaching of Chinese as a Second Language.
HISTORY	Spatial Archaeology; Ethno-archaeology; Cultural Tourism; Farming Communities; Heritage Management; Archaeological Site Management; Pre-History of Southern Africa; Archaeological Theory; Rock Art; Conservation of Artistic Expression; Liberation War, War and Strategic Studies; Socio-environmental History; Peace Education; Security Migration; Labour Migration; Political History; Belonging; Violence; Gender in History.
LINGUISTICS	Syntax and its Interfaces with Semantics; Language Acquisition; Sociolinguistics; Phonology; Speech Impairments; Sign Language; Morphology; Semantics; Psycholinguistics; Phonetics; Syntax; Sociolinguistics and its Interfaces with Syntax;

	Language and Gender; Discourse Studies; Corpus Linguistics; Translation and Interpretation; Sign Language, Second Language Learning and Teaching; Multilingualism and Ethnographic Discourse Analysis; Discourse and National Development; Conceptualisation and Language Processing; Applied Sociolinguistics; Bilingualism; Language Planning and Policy; Minority Languages; Community Interpretation with a Bias towards Court Interpreting; Corpus-based Interpreting; Terminology Development for Translation Purposes; Forensic Linguistics; Dialectology; Sociophonetics; Geolinguistics; Language and Development; Endangered Languages.
RELIGIOUS STUDIES, CLASSICS AND PHILOSOPHY	African Traditional Religion; Pentecostalism; World Religions; Religion and Ethics; Phenomenology of Religion; Women in Religion; Old Testament; Church and State; Religion and Politics; Land and Scripture and Interreligious Dialogue; Ecology; Human Rights; Gender; Sexuality; Interreligious Dialogue; Classical Studies.
THEATRE ARTS	African Cultural Studies; Performance Studies; Television, Radio and Identity; Film; Representation; Scenography; Dance; Music; Disability Studies; Citizenship; Therapy and Performance; Radio and Television Production; Entrepreneurship; Arts Management; Arts Education; Gender and Performance; Politics; Democracy and Performance; HIV and Sexuality; Masculinity; Visual Arts; Stagecraft and Design; Ritual Studies.

COLLEGE OF HEALTH SCIENCES	
DEPARTMENT	CURRENT RESEARCH AREAS
SURGERY	General Surgery; Plastic and Reconstructive Surgery; Urology.
RADIOLOGY	Radiology; Radiotherapy and Oncology.
PSYCHIATRY	Mental Health; Clinical Psychiatry.
PHYSIOLOGY	Pathophysiology; Origins of Diseases; Physiology.
PHARMACY	Medicinal Chemistry; Pharmacy; Nanotechnology; Pharmaceutical Chemistry.
PAEDIATRICS AND CHILD HEALTH	General Pediatrics; Infectious Diseases; Cardiology; Malnutrition; Palliative Medicine; Neonatal Medicine.
OPHTHALMOLOGY	Cataracts; Ocular Oncology; Ophthalmology.
OBSTETRICS AND GYNAECOLOGY	Obstetrics; Gynaecology; Haemorrhage; Contraception; Menstrual Disorders.
NURSING SCIENCE	Maternal Child Health; Medical Surgical Nursing; Mental Health; Psychiatric Nursing; General Nursing.

MEDICAL MICROBIOLOGY	Virology; Human Genetics; Bacteriology; Mycology; Nephrology; Molecular Diagnosis; Haematological Malignancies; Blood Transfusion Science; Medical Microbiology.
MEDICAL LABORATORY SCIENCES	Schistosomiasis; Laboratory Diagnosis of Diseases; Bacteriology.
IMMUNOLOGY	Immunology; Virology; Skin Cancers; Molecular Biology.
HAEMATOLOGY	Anaemia; Blood Transfusion; Leukaemia; Lymphoma; Haematology.
DENTISTRY	Oral Health; Oral Surgery; Maxillofacial; Dentistry; Orthodontics.
CHEMICAL PATHOLOGY	Cancer Diseases; Laboratory Management; Clinical Biochemistry; Pathology.
COMMUNITY MEDICINE	Public Health; Biostatistics; Epidemiology; Health Promotion; Occupational Safety and Health; Operational Research; Health Economics.
CLINICAL PHARMACOLOGY	Clinical Pharmacology; Pharmacokinetics; Pharmacogenetics; Pharmacogenomics; Toxicology; Drug Utilisation.
ANATOMY	Anatomy.
ANAESTHESIA AND CRITICAL CARE MEDICINE	Anaesthesia.
MEDICINE	Cardiology; General Medicine; Non Communicable Diseases; Infectious Diseases; Palliative Care; HIV/AIDS; Disorders; Rheumatism.

FACULTY OF COMMERCE	
DEPARTMENT	CURRENT RESEARCH AREAS
ACCOUNTANCY	Corporate Governance and Accountability; Financial Reporting and Management Accounting; International Business

	Finance and Taxation.
BUSINESS STUDIES	Marketing; Finance; Corporate Governance and Accountability; Strategic Management; Entrepreneurship; Human Resources Management; Leadership.
TOURISM, LEISURE AND HOPITALITY STUDIES	Strategic Human Resources Management; Marketing Management; Marketing; Tourism and Hospitality Management.
GRADUATE SCHOOL OF MANAGEMENT	Strategic Management; Corporate Governance; Leadership; Marketing.

	FACULTY OF EDUCATION
DEPARTMENT	CURRENT AREAS OF RESEARCH
ADULT EDUCATION	Rural Development; Literacy; Comparative Adult Education; Non-formal Education; Vocational and Technical Training; Food Security; Gender Studies; Educational Administration and Management.
CURRICULUM AND ARTS EDUCATION	Literature in English; Biblical Studies; Religious Education; Onomastics; Indigenous Knowledge; Language Planning and Policy; Language Education; Gender Studies; Curriculum Planning and Evaluation; Curriculum Studies and Educational Psychology.
EDUCATIONAL ADMINISTRATION	Educational Administration and Management; Organisational Effectiveness and Supervision; Project Management; Financial Management and Evaluation; Politics and Education Policy; School Improvement and Curriculum Issues; Educational Processes and Culture.
EDUCATIONAL FOUNDATIONS	Philosophy of Education; Social and Political Philosophy; Citizenship Education; African Philosophy; Educational Psychology; Inclusive Education; Disability; Post Colonialism and Sustainable Development; Gender and Childhood Disability; Human Rights and Policy Analysis; Indigenous Knowledge Systems; Multicultural Education; Gender Studies; Academic Colonialism; Globalisation; Governance and Democracy; African Metaphysics and Spirituality.

SCIENCE AND MATHEMATICS EDUCATION	Mathematics Learning and Instruction; Citizenship Education; Curriculum Evaluation; Natural Products Extraction; Fractionation and Characterisation; Isobolographic Techniques in Determining Efficacies of Bioactive Principles from Plants; Science Education; Mathematics Education.
TEACHER EDUCATION	Early Childhood Education; Art and Design Education; Fine Art Studio and Culture; History of Art and Design; Teacher Education; Distance and Open Learning Institutional Development.
TECHNICAL EDUCATION	Design and Technology Education; Science and Technology Education; Industrial Arts; Material Science and Foundry Technology; Design and Technology Education; Employment and Economic Development; Entrepreneurial Technical Vocational Education and Training; Competency Based Education and Training.

FACULTY OF ENGINEERING	
DEPARTMENT	RESEARCH AREAS
CIVIL ENGINEERING	Water Resources Management; Hydrology; Structural Engineering; Computer-aided Analysis/Design; Dynamics of Structures; Traffic and Transportation Engineering; Urban and Physical Planning; Water Sector Infrastructure Development and Planning; Stochastic Hydrology; Hydraulic Structures; Surface and Ground Water Assessments; Design of Earth Concrete and Masonry Dams; Water Supply Design; Water Demand Analyses; Design of Water Measuring Structures; Earthquake Analyses in Respect of Dams; Design of Human Capacity Development Programmes; Hydrology and Hydraulic Engineering; Water Resources Management; Renewable Energy; Solid Waste Management; Wastewater Engineering; Environmental Engineering; Water Policies and Institutions.
ELECTRICAL ENGINEERING	Electrical Power Networks and Modelling; Distributed Energy Resources; Grid Connected Renewables; Electric Vehicles and Energy Storage; Energy Management; Digital Signal Processing; Image Processing; Software Defined Radios; Internet of Things (IoT); Wireless Sensor Networks; Remote Sensing; Unmanned Aerial Vehicles and Systems; Power Electronics; Control Systems; Embedded Systems Engineering; Software Engineering.
MECHANICAL ENGINEERING	Engineering Mechanics; Applied Mechanics; Solid Mechanics; Thermo fluids; Engineering Materials; Manufacturing Technology; Fuzzy Logic; Nanotechnology; Renewable Energy; Solar Systems; Biomass; Dynamics; Vehicle Dynamics; Fluid Mechanics; Computational Fluid Dynamics; Industrial Systems Engineering; Process Engineering; Thermodynamics; Computer Aided Design and Manufacture; Robotics; Finite Element Analysis; Maintenance.
METALLURGICAL ENGINEERING	Clean Fuels and Energy; Sustainable Resource-based Industrialisation; Sustainable Mineral Value Chains; Resource Efficient and Cleaner Production.

DEPARTMENT	FACULTY OF LAW
SOUTHERN AND EASTERN AFRICAN REGIONAL CENTRE FOR WOMEN'S LAW	Gender and Law; Customary Law; Succession Law; Family Law; Women Access to Environmental Resources and Land; Women Commerce and the Law; Theories and Perspectives in Women's Law.
PRIVATE LAW	Contract Law; Commercial Law; Company Law; Human Rights Law.
PUBLIC LAW	Constitutional Law; Labour Law; Corporate Law; Banking Law; Tax Law; International Law; Human Rights Law.
PROCEDURAL LAW	International Law; Law of International Institutions; International Human Rights Law; International Refugee Law; Citizenship and Nationality; Banking Law; Legislative Drafting; Civil Procedure; Access to Justice; Human Rights; Women's Law.

FACULTY OF SCIENCE	
DEPARTMENT	CURRENT RESEARCH AREAS
CHEMISTRY	Environmental Chemistry; Wastewater Management; Water Quality; Electro-analytical Chemistry; Nanotechnologies for Water Treatment; Membrane Fabrication; Semiconductor Photocatalysis; Nanotechnology in Medicine; Organometallics in Catalysis and Medicine; Functional Nanomaterials; Industrial Organic Chemistry; Biofuels; Natural Products; Environmental Chemistry of Pesticides; Heavy Metal Speciation and Mobility in the Environment; Plasma Spectrochemistry.
FOOD NUTRITION AND FAMILY SCIENCES	Food Chemistry; Water Quality; Child Development; Family Sciences; Nutrition and Health; Bioactive Compounds in Foods; Food Toxicology; Food Microbiology; Food Safety; Food Product Development; Public Health Nutrition; Food Science and Nutrition; Food Technology; Food Chemistry; Food Analysis; Cereal Technology; Dairy Products; Sanitation and Legislation; Macronutrients; Micronutrients; Nutrition Epidemiology; Clinical Nutrition and Dietetics; Nutrition Assessment and Surveillance.
BIOCHEMISTRY	Analysis of Polysaccharides in Wild Plants: Their Use in Industrial Applications; Traditional and Indigenous Foods: Medico-Nutritional Properties and Utilisation; Biological Natural Products; Water and Sanitation.
PHYSICS	Agrometeorology; Agrometeorological Instrumentation for Precision Agriculture; Biosystems Engineering; Bioscience Engineering; Materials Science; Renewable Energy; Nanotechnology; Nanoscience; Materials Characterisation; Vulnerability and Adaptation to Climate Change; Climate Modelling; Meteorology; Atmospheric Science/Physics; Cloud Microphysics; Numerical Weather Prediction; Applied Optics and Photonics; Microcontroller-based Monitoring Systems; Electronics and Telecommunications; Magnetic Measurements; Space Weather Effects; Finite Element Modelling.
COMPUTER SCIENCE	Database Systems; Data Mining; Knowledge-based Systems; Decision Support Systems; Big Data; Performance Modelling of Communication Networks; Internet of Things; Computer Security; Embedded Systems Design; Cloud Computing.
MATHEMATICS	Group Theory; Abstract Harmonic Analysis; Topological Semigroups; Convolution Measure Algebras; Function Algebras on Topological Semigroups and Groups; Mathematical Biology; Graph Theory; Differential Equations with Applications in Fluid Mechanics; Mathematical Biology; Numerical Finance.
GEOGRAPHY AND ENVIRONMENTAL SCIENCE	Geographic Information Systems; Remote Sensing; Global Positioning Systems; Environmental Systems Analysis and Monitoring; Spatial Ecology; Spatial Statistics; Ecology; Human Environment (Political Ecology); Land and Agrarian Studies; Ecosystems Science; Geospatial Data Analysis.
BIOLOGICAL SCIENCES	Fish Biology; Limnology of Rivers and Lake Ecosystems; Ephemeral Systems; Aquaculture; Biology of Aquatic Invasive Species; Biodiversity of Aquatic and Terrestrial Ecosystems; Integrated Natural Resources Management; Wetlands Ecology; Natural Products and Biodiversity and Conservation; Insect Pests and their Management; Edible Insect Research; Biostatics; Apiculture; Invertebrate Zoology and Bio-monitoring; Savannah Woodland Ecology and Management; Sustainable Resource Use for Improved Rural Livelihoods; Non-timber Forest Product Use and Conservation; Entomology;

	Fish Parasitology; Plant Taxonomy; Forensic Science.
STATISTICS	Time Series Analysis; Multivariate Time Series (Co-integration and Error Correction Methods); Survival Analysis; Statistical Quality Control; Stochastic Processes and Models; Dynamic Regression Modelling; Longitudinal Data Analysis; Queueing Theories and Modelling; Inventory Models; Decision Analysis; Option Pricing Modelling Including The Black – Scholes Formula; Demographic Modelling; Black – Scholes Formula; Big Data Analytics Using Regression Trees; Economic Modelling of Stock Markets Using GARCH and Multivariate GARCH; Non-parametric Statistics.
GEOLOGY	Applied Geochemistry and Geochronology; Environmental Geology; Exploration Geology; Sedimentology; Applied Geochemistry; Medical Geology; Petrology; Mining Geology; Mineralogy; Ground Water Contamination and Modelling; Ore Resources Estimation.

FACULTY OF SOCIAL STUDIES	
DEPARTMENT	CURRENT RESEARCH AREAS
POLITICAL SCIENCE AND ADMINISTRATIVE STUDIES	International Relations; Foreign Policy; International Economic Relations; International Conflict Management; International Political Economy; Public Policy Analysis; Public Sector Reforms; Public Administration; Democracy and Governance; Local Government Management; Democratic Governance.
CENTRE FOR APPLIED SOCIAL SCIENCES	Natural Resource Management; Community-based Conservation; Rural Development; Development Economics; Labour and Industrial Studies; Land and Agrarian Studies; Governance Issues; Sustainable Development; Poverty; Environmental and Natural Resource Management; Policy Studies.
SOCIOLOGY	Rural Development; Gender; Industrial and Educational Sociology; Musicology; Urban Poverty; Forced Immigration; Sociology and Anthropology of Youth; Development Studies; Rural and Urban Development; Climate Change and Social Policy; Environmental Sociology and Agrarian Studies; Gerontology.
PSYCHOLOGY	Organisational Improvement Interventions; Cross-Cultural Psychology; Health Psychology Including HIV/AIDS; Mental Health; Cancer and Traditional Medicine; Sport Psychology; Forensic Psychology; Development Psychology.
POPULATION STUDIES	Reproductive Health; Fertility; Morbidity and Mortality; Environment.
ECONOMICS	International Economics; Econometrics; Development Economics; Small Enterprise Development; Agricultural and Food Policy Analysis; Applied Micro-econometrics; Monetary and Financial Economics; Regional Integration; Labour Economics; Macro-economic Policy and the Informal Sector.
RURAL AND URBAN PLANNING	Peri-urban Planning and Management; Systems Management for Rural and Urban Planning; Urban Management and Governance; Decentralisation and Local Government.
SOCIAL WORK	Social Protection; Human Rights and Social Justice; Social Work; Religion and Spirituality; Community Health; Child Protection and Community Development.

