



UKIERI PARTNERSHIPS

2006-2018

www.ukieri.org

About UKIERI

UK-India Education and Research Initiative (UKIERI) was started in April 2006 with the aim of enhancing skills and educational links between India and the UK. Since then, the programme has established partnerships on leadership development, joint research and innovation and skills development. Over 1,000 UK and Indian institutions have benefited from the programme. 25,000 exchanges of UK and India academicians, researchers, staff and students have also been supported.

UKIERI is jointly funded by Department for Business, Energy and Industrial Strategy, Department for Education, Foreign and Commonwealth Office, British Council, Scottish Government, Welsh Government and Department for Economy from the UK side and Ministry of Human Resource Development, Department for Science and Technology, Ministry of Skill Development and Entrepreneurship, University Grants Commission and All India Council for Technical Education from India side.

Produced by:
British Council
17 Kasturba Gandhi Marg
New Delhi 110001
India

www.britishcouncil.in

UKIERI Partnerships

Phase 2
2011–2016



ACRONYMS AND ABBREVIATIONS

DST	Department of Science & Technology
UGC	Universities Grant Commission
CSP	Collaborative Skills Partnerships
SSP	Sector Skills Partnerships
SSC	Sector Skills Collaborations
ICB	Institutional Capacity Building
JMP	Joint Masters Programme
SM	Study Mission
STEM	Science, Technology, Engineering and Mathematics

Thematic Partnerships 2011–12

S. No.	Project Title	Project Area	UK Institution	Indian Institution
1	A sensor-based training system for home rehabilitation of the stroke paralyzed arm and hand	STEM	Imperial College London	Christian Medical College, Vellore
2	Automated Low Cost System for Malaria Diagnosis and Classification	STEM	University of Westminster	Anna University, Chennai
3	Making performance based structural engineering for fire resistance attainable	STEM	University of Westminster	Indian Institute of Science, Bangalore
4	Study of Fibrosis in Heart Failure	STEM	Royal Brompton Hospital, London	All India Institute of Medical Sciences, New Delhi
5	Domestic Attitudes and Indian Foreign Policy: Mapping Drivers and Shapers	Social Sciences	King's College London	Calcutta University
6	Evaluation of Emerging Industrialised Housing Technologies and Systems for Affordable and Sustainable Housing Stock in India and the UK	STEM	University of Salford	Indian Institute of Technology Delhi
7	Sustainable Management of the Ganga River Basin through Scientific Innovation.	STEM	Durham University	Indian Institute of Technology Kanpur
8	Use of Nanomaterials in Smart Energy Systems	STEM	University of Surrey	Indian Institute of Technology, Kharagpur
9	Purification of the Plant Based Chikungunya Antigens and Evaluation of its Vaccine Potential	STEM	St. George's, University of London	Bharathiar University, Coimbatore
10	HiPER NIRGAM	STEM	University of Southampton	Malaviya National Institute of Technology, Jaipur
11	Design of ventilated helmets	STEM	Imperial College London	Indian Institute of Technology, Delhi
12	UKIERI Thematic Partnership in Low Carbon Materials Technologies, Innovation and Application	STEM	University of Warwick	Indian Institute of Technology Bhubaneswar
13	Low emission, fuel-flexible combustion systems to enable decentralised power generation using renewable local supplies	STEM	University College London	Indian Institute of Technology, Madras
14	Indraas: Integrating disease prediction with weather and climate models seamlessly	STEM	University of Liverpool	CSIR Center for Mathematical Modelling and Computer Simulation (C-MMACS), Bangalore
15	Process analytics enabled green technologies for processing of poorly soluble drugs	STEM	University of Bradford	Institute of Chemical Technology, Mumbai
16	Low-cost Organic-Inorganic Hybrid Electroluminescent Devices	STEM	University of Cambridge	Indian Institute of Technology Delhi
17	Towards a sustainable resource in stroke genetics from the four corners of India: the 4i study	STEM	Imperial College London	All India Institute of Medical Sciences, Delhi

18	Artificial Heart	STEM	Aston University	VPM Polytechnic, Thane
19	NanoBreathApp	STEM	STFC Rutherford Appleton Laboratory	S N Bose National Centre for Basic Sciences, Kolkata
20	Marginal Populations, Social Mobilisation and Development	STEM	University of Edinburgh	Tata Institute of Social Sciences, Mumbai
21	Nanomedicine - An Anglo Indian Venture	STEM	King's College London	Indian Institute of Chemical Technology, Hyderabad
22	Effect of Nanomaterials in Mammalian Systems	STEM	University of Bradford	Ahmedabad University
23	Low Temperature solid oxide electrolyzer for conversion of CO ₂ to organic compounds	STEM	Newcastle University	Indian Institute of Technology Delhi
24	Optical Sources for Sub-Cellular Resolution Optical Coherence Tomography	STEM	University of Sheffield	University of Calcutta
25	Biomechanical Assessment of Current and Novel Total Knee Replacements	STEM	University of Southampton	Indian Institute of Technology Kharagpur
26	Novel Approaches to Tackling Tuberculosis	STEM	University of Birmingham	Indian Institute of Science, Bangalore
27	Climate Change Issues and environmental performance of Small and Medium-sized Enterprises in India and the UK	STEM	Aston University	Jadavpur University, Kolkata
28	Southampton and National Oceanography Centre, Mass Dartmouth - Earth, Ocean and Climate Sciences	STEM	University of Southampton	Indian Institute of Technology, Bhubaneswar
29	Integrated Smart Antennas for 60 GHz Wi-Fi	STEM	Kent University	Cochin University of Science and Technology
30	Interactive Systems and Coatings for a Sustainable Built Environment	STEM	University of Bath	Maulana Azad National Institute of Technology (MANIT), Bhopal
31	A Collaborative Research Framework for Structures Subjected to Extreme Loads	STEM	University of Edinburgh	Indian Institute of Technology Roorkee
32	Natural Anisotropic Materials: From micro-level composition to macro-level response	STEM	University of Edinburgh	Indian Institute of Technology, Delhi
33	UK-India SME Knowledge Initiative	STEM	University of Wales	JK Lakshmi Pat University, Jaipur
34	Seismic Velocity Structure of the north-western and north-eastern Himalaya and its implications for earthquake hazard assessment	STEM	University of Cambridge	Indian Institute of Science Education and Research, Kolkata
35	Validation of a computational model of urinary bladder electrical activity in health and during overactivity	STEM	University of Birmingham	Indian Institute of Technology Mumbai
36	Low complexity Energy efficient Transceivers for Cognitive Radio System	STEM	Heriott Watt University	National Institute of Technology, Tiruchirappalli
37	Contamination Monitoring using Mobile Sensor Networks (CM-MSN)	STEM	University of Exeter	Indian Institute of Science, Bangalore

38	Critical evaluation of available toxicity due to silver nanoparticles (AgNPs) in Indian Sundarban mangrove wetland, A UNESCO World Heritage Site	STEM	University of Edinburgh	University of Calcutta
39	Integrated Sensing, Monitoring and Healing for Complex Autonomous Systems	STEM	University of Sheffield	Indian Institute of Technology Kanpur
40	Astrophysics with Astrosat	STEM	University of Leicester	Tata Institute of Fundamental Research, Mumbai
41	Solar accelerator design for small scale bio-gas production	STEM	University of Ulster	The Energy and Research Institute, Delhi
42	Leveraging Knowledge Networks for Enabling Innovations in Higher Education and Research Institutes in India and UK	STEM	University of Strathclyde	Indian Institute of Management, Ahmedabad
43	Exploring good practice in urban social cohesion in India and the UK	STEM	University of East London	Tata Institute of Social Sciences, Mumbai
44	Understanding Indian and UK Food Industries	STEM	University of Cambridge	Indian Institute of Management, Lucknow
45	Triggering High Energy Physics at CERN	STEM	University of Birmingham	University of Jammu
46	Assessment of effects of arsenic pollution on health in rural Bengal and development and implementation of sustainable technology solution	STEM	Queen's University Belfast	Bengal Engineering and Science University, Shibpur
47	UK - India Network on Electrical Contacts for Radiation Sensors and Solar Cells	STEM	University of Surrey	Jadavpur University, Kolkata
48	Power efficient and high performance data prefetching techniques for multi-core processors	STEM	University of Edinburgh	Indian Institute of Technology Madras
49	Seismic Requalification of Geotechnical Structures	STEM	University of Bristol	Indian Institute of Technology Guwahati
50	Rural and Remote Ubiquitous Broadband Wireless Access	STEM	University of Edinburgh	Indian Institute of Technology Kharagpur
51	Innovation in High Voltage Electrical Insulation for Electrical Energy Systems	STEM	Cardiff University	Indian Institute of Technology, Madras

Trilateral Partnerships 2011-12

S. No.	Project Title	Project Area	UK Institution	Indian Institution	US Institution
1	Research on nephrotic syndrome	STEM	University of Bristol	All India Institute of Medical Sciences, New Delhi	University of Michigan Medical School
2	Develop a cheap but highly sensitive graphene based generic sensing platform	STEM	Newcastle University	Jadavpur University, Kolkata	University of California, Los Angeles
3	Develop a set of integrated research activities that will focus in the field of ground-based solar physics	STEM	Queen's University Belfast	Indian Institute of Astrophysics, Bangalore	National Solar Observatory
4	Explore the behaviour of Cx(BN) _{1-x} , as an integrated material system for the photocatalytic production and simultaneous storage of hydrogen	STEM	University of Reading	Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore	Purdue University
5	Stoichiometric and polymorphic variations in cocrystal synthesis	STEM	Bradford University	University of Hyderabad	University of Minnesota
6	Develop Nyaya: The Global Justice Programme	Humanities	University of Birmingham	University of Delhi	Yale University
7	Perform a translational multidisciplinary research project using stem cell therapy, novel biomaterial scaffolds and clinically relevant in vivo models to enhance peripheral nerve regeneration in vitro and in vivo with the long term aim of clinical transla	STEM	University of Leeds	Indian Institute of Technology Kharagpur	Wake Forest University
8	Influenza virus research	STEM	University of Nottingham	Tamil Nadu Veterinary and Animal Sciences University, Chennai	Virginia Polytechnic Institute and State University
9	Design and analysis of optical microstructured fibre-based Terahertz source for transmission and applications	STEM	City University London	Indian Institute of Technology, Delhi	University of Rochester
10	Work on freight transportation to ensure long-term sustainability of freight movement	STEM	University of Sheffield	Indian Institute of Technology, Delhi	Rutgers, The State University of New Jersey
11	Addressing Maternal metabolism, nutrition and environmental pollution in the context of aetiology of birth defects in general in India	STEM	University of Dundee	Sri Ramachandra Medical College and Research Institute, Chennai	Utah State University
12	Computer Gaming Across Cultures	STEM	Bangor University	Jawaharlal Nehru University, New Delhi	West Virginia University

13	Aims to examine two related issues that can facilitate (or hinder) private sector development – financial development and corporate governance – in India	Social Sciences	Aston University	Indian Institute of Management, Calcutta	Southern Illinois University Edwardsville
14	Conduct research and training in public health virology	STEM	Health Protection Agency	Manipal University, Karnataka	University of Alabama, Birmingham
15	Wave propagation studies through multi-scale composites for Improved energy absorption in Aerospace Structures	STEM	University of Bristol	Indian Institute of Science, Bangalore	Georgia Institute of Technology
16	Political Economy in contemporary India	Humanities	King's College London	Indira Gandhi Institute of Development Research, Mumbai	Centre for South Asia Studies
17	India and Pakistan foreign policy endeavours in Afghanistan	Humanities	King's College London	Jadavpur University, Kolkata	John Hopkins University
18	Air pollution	STEM	University of Birmingham	Indian Institute of Technology, Delhi	Desert Research Institute

Collaborative Skills Partnerships 2011-12

S. No.	Project Title	Project Area	UK Institute	Indian Institution
1	Developing an SSC's Systems	Skills Development	Improve Ltd	Federation of Indian Chambers of Commerce and Industry
2	Global Fashion Skills Collaborative Networks: Reskilling/Upskilling for Future Business Growth	Skills Development	London College of Fashion/University of Arts London	Pearl Academy of Fashion
3	Skill Building in Supply Chain Management	Skills Development	The Grimsby Institute of Further & Higher Education	Delhi Management Association
4	Developing Management Training Materials for SMEs	Skills Development	Brunel University	National Institute of Technology Tiruchirappalli
5	Developing Managers in Vocational Education & Training (DMVET)	Skills Development	Association of Colleges	CL Educate India Ltd
6	Innovative and Application Oriented Capacity Building of Trainers in West Bengal	Skills Development	A4e Ltd	Infrastructure Leasing & Financial Services Limited (IL&FS)
7	Preparing Graduates for Business Life	Skills Development	Brunel University	National Institute of Technology Truchirappalli
8	Developing Vocational Education and Training VET in Hairdressing and Beauty Therapy in India	Skills Development	VTCT - Vocational Training Charitable Trust	Cordia Educational Institutes

Study Mission 2011

S. No.	Project Title	Project Area	UK Institute	Indian Institution
1	Physical Planning and Design Knowledge and Skills Beyond Borders: Quality space and cultural environments	STEM	Cardiff School of City & Regional Planning, Cardiff University	Faculty of Planning and Public Policy, CEPT University
2	India-UK Social Work Law	Humanities	Keele University	Tata Institute of Social Sciences
3	Intercontinental Drift	Design	University of Creative Arts	National Institute of Design

Joint Masters Programme 2011

S. No.	Project Title	Project Area	UK Institute	Indian Institution
1	An Integrated Doctoral and Masters Programme	STEM	University of Warwick	Indian Institute of Technology, Bhubaneswar
2	Split-site Ph.D. and student exchange research programme on Nano Self-Assembled Photonic Systems	STEM	University of Cambridge	Indian Institute of Technology Delhi
3	Developing Joint Masters Programmes in Design	STEM	The University of Dundee	MAEER MIT Institute of Design
4	Split Site PhD programme in Archaeology, between the University of Exeter and the National Institute of Advanced Studies	STEM	University of Exeter	National Institute of Advanced Studies
5	Split Site PhD programme in Drama, between the University of Exeter and the National Institute of Advanced Studies	STEM	University of Exeter	National Institute of Advanced Studies
6	Manipal - Nottingham Life Sciences Split Site PhD	STEM	The University of Nottingham	Manipal Life Sciences Centre, Manipal University

Sector Skills Partnerships 2011-12

S. No.	Project Title	Project Area	UK Institute	Indian Institution
1	Introducing National Occupational Standards in Dental & Nursing Across India	Skills Development	Coatbridge College	Kuravackal Educational and Charitable Trust
2	Assessing and Framing Requirements for Labour Market	Skills Development	Skills for Security	Security Knowledge and Skills Development Council of India
3	The Modification and Contextualisation of Learning Materials for the Security Industry	Skills Development	Security and Facilities Education Ltd. (SAFE)	Premier Skills Pvt. Ltd.

UKIERI Universities Grant Commission Partnerships 2012-13

S. No.	Project Title	Project Area	UK Institution	Indian Institution
1	Sustainable resourcing of platinum-group elements (PGE): Studies to understand and locate PGE in chromitites and breccias in India	STEM	Cardiff University	Jadavpur University, Kolkata
2	Development of Optical Fibre based devices for Sensing Applications (DOFISA)	STEM	The Robert Gordon University	Cochin University of Science & Technology
3	Development of Ln +3 - doped fluoride glasses and nano-glass ceramics for compact visible and white laser applications	STEM	Heriot Watt University	Sri Venkateswara University
4	New Developments in Screen Printed Sensors: from the laboratory to the field	STEM	Manchester Metropolitan University	Banaras Hindu University
5	Scenography in a digital age: a comparative study of the impact of new media on contemporary Indian and British performance practice	Humanities	University of the Arts London	University of Hyderabad
6	Evaluation of Tribological Behaviour and Wear corrosion of CNTs reinforced Aluminium Metal Matrix composites	STEM	University of Plymouth	Anna University, Chennai
7	Tailoring and optimization of structural and electrical properties of semi-conducting oxide based nano structured materials suitable for novel gas sensing applications	STEM	University College London	Gargi College, University of Delhi
8	Vellore-Aberdeen Nutrition Exchange (VANE) Project	STEM	University of Aberdeen	Christian Medical College
9	Unravelling novel circuitry regulating cell wall integrity, mitochondria and MDR in Candida albicans	STEM	University of Aberdeen	Jawaharlal Nehru University
10	Hydrothermal Growth of Multicomponent Barium Titanate based Ferroelectric Oxides for Multilayer Capacitors	STEM	University of Leeds	Anugrah Narain College
11	Innovations in International Outreach Social and Legal Methodologies in Research and Education	STEM	Keele University	Tata Institute of Social Sciences, Hyderabad
12	Envisioning the Indian City: Spaces of Encounter	STEM	University of Liverpool	Jadavpur University
13	Optimising phosphate recovery from community bioenergy systems: low cost sustainable fertiliser production for rural communities	STEM	University of Nottingham	Tezpur University
14	Application of ketodithioesters and S,S-/N,S-/N,N-acetals in organic synthesis: One-pot multicomponent reactions	STEM	Loughborough University	Banaras Hindu University
15	Municipal Solid Waste (MSW) to Energy: Decision Support System (DSS) for Supply Chain Design and Planning	STEM	Aston University	Jadavpur University
16	Evolution of human hair form	STEM	University of Edinburgh	Calcutta University
17	Climate Change and Groundwater Management: An Indian Law and Society Comparative Study	STEM	University of London	National Law University
18	Design and synthesis of potent dual inhibitors of Cdk4 and tubulin as anticancer agents	STEM	De Montfort University	BIT Mesra

19	Newcastle and Mumbai Partnership on Sustainability and Environment Research (NAMPSER)	STEM	Newcastle University	Indian Institute of Technology Bombay
20	A new research partnership between the University of Liverpool and AIIMS, India	STEM	University of Liverpool	All India Institute of Medical Sciences
21	Quest for CP violation in charm decays	STEM	University of Oxford	Indian Institute of Technology, Madras
22	Deciphering variable impedance strategies in human locomotion for the development of next generation robotic devices	STEM	University of Edinburgh	National Centre for Biological Sciences
23	To study the cellular mechanisms of G-CSF and Erthropoeitin on Liver regeneration in patients with acute on chronic liver failure	STEM	University of Edinburgh	Institute of Liver and Biliary Sciences, Delhi
24	Radiation-Hard/Soft Optical Fiber Sensors for Nuclear and Medical Applications	STEM	City University London	CSIR-Central Glass & Ceramic Research Institute, Kolkata

UKIERI Department of Science & Technology Partnerships 2012-13

S. No	Project title	Project Area	UK Institution	Indian Institution
1	Investigating modulation of miRNA expression in the hypoxic stem cell niche	Stem Cell Research and Animal Biotechnology	Keele University	Indian Institute of Technology Delhi
2	Production of novel nano-composites of lactoferrin conjugated gallium and silver quantum dots and its biomedical applications	Advanced Materials including Nanotechnology	University of Liverpool	Sree Chitra Tirunal Institute for Medical Sciences and Technology, Biosurface Technology Division, Thiruvananthapuram
3	Networked infrastructure for the remote monitoring of patients	Next Generation Networks in Telecommunication	Loughborough University	Instrument Design and Development Centre Indian Institute of Technology Delhi
4	Implementation of long-range electrostatic interactions in iterative Boltzmann inversion coarse grain molecular dynamics and its application to novel materials	Advanced Materials including Nanotechnology	University of Manchester	Physical Chemistry Division, National Chemical Laboratory Dr. Homi Bhabha Road, Pune
5	Modelling & Control of Hybrid Renewable Energy Sources	New Energy Technologies including Hydrogen	Queen Mary, University of London	National Institute of Technology (NIT), Rourkela
6	Studies on Nano-Engineered Cementitious and Polymeric Binders in Developing High Performance Building Materials	Advanced Materials including Nanotechnology	University of the West of Scotland	CSIR-Central Building Research Institute Roorkee
7	Hybrid Quantum Mechanics/Molecular Mechanics Calculation on Palladium Supported TiO ₂ for CO Oxidation	Advanced Materials including Nanotechnology	University College London	Department of Chemical Sciences, Tezpur University, Tezpur
8	Carbon Nanotube and Graphene Based Multi-scale Composite Architectures for Improved Energy Absorption in Aerospace Structures	Advanced Materials including Nanotechnology	University of Bristol	Indian Institute of Science, Bangalore
9	Nanocomposite Oxide Films with Enhanced Functionality for Novel Device Applications	Advanced Materials including Nanotechnology	University of Cambridge	Physics Department, Indian Institute of Technology Delhi
10	Development of nanocomposite Alumina-hydroxyapatite based biocomposite coatings on real life Ti-based orthopedic bone implant substrate for enhanced service life	Advanced Materials including Nanotechnology	University of Leeds	Vellore Institute of Technology, Vellore
11	Development of herbal drugs for the prevention and treatment of Diabetic Retinopathy and to elucidate their Mechanism of Action in Experimental Rat Models	Stem Cell Research and Animal Biotechnology	University of Manchester	Delhi Institute of Pharmaceutical Sciences & Research, University of Delhi
12	Development of a bacteriophage-based biocontrol technology for the treatment of cholera	Stem Cell Research and Animal Biotechnology	University of Nottingham	National Institute of Cholera and Enteric Diseases, Kolkata
13	Development and characterisation of nanomaterials for biosensors and biocatalysts	Advanced Materials including Nanotechnology	University of Leeds	Birla Institute of Technology and Science - Pilani, Goa

14	Smart Materials: Development of Metal-coded protein biosensors based on molecularly imprinted polymers	Advanced Materials including Nanotechnology	University of Surrey	Sri Venkateswara University, Tirupati
15	Production and evaluation of biochar characteristics that influence greenhouse gas emissions	Weather Science and Climate Change and New Energy Technologies including Hydrogen	Cranfield University	Tamil Nadu Agricultural University, Agricultural Engineering College & Research Inst., Coimbatore
16	Nano-Engineered Magnetic Materials for Spintronic Applications	Advanced Materials including Nanotechnology	Durham University	S. N. Bose National Centre for Basic Sciences, Kolkata
17	Active multicore components for next generation optical communications and sensing	Next Generation Networks in Telecommunications	Heriot Watt University	Fiber Optics and Photonics Division Central Glass and Ceramic Research Institute, Kolkata
18	Ultrafast Optical and Terahertz studies of the dilute Bismide alloys, GaN:Bi and GaAs:Bi	Advanced Materials including Nanotechnology	University of Nottingham	Indian Institute of Science Education and Research, Thiruvananthapuram
19	Development of novel nanocomposites for photonic applications	Advanced Materials including Nanotechnology	University of York	Shriram Institute for Industrial Research, Delhi
20	Discovery of DNA polyintercalators using Dynamic Combinatorial Chemistry	Advanced Materials including Nanotechnology	University of Bath	Indian Institute of Science Education and Research, Kolkata
21	Multifunctional paramagnetic nanoparticles-loaded polymer capsules for MRI imaging applications	Advanced Materials including Nanotechnology	University of Nottingham	Indian Institute of Technology Kanpur
22	The effects of micro-environmental stress on the regenerative activity of mesenchymal stem cells	Stem Cell Research and Animal Biotechnology	Aston University	Center for Biotechnology, Anna University, Chennai
23	Exploitation of carbon nanostructure-organic supramolecular electrodes for Lithium-ion batteries	Advanced Materials including Nanotechnology and New Energy Technologies including Hydrogen	Brunel University	Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore
24	Conjugation of wild silk proteins with polymer brushes for biomedical applications	Advanced Materials including Nanotechnology	Queen Mary, University of London	Department of Biotechnology and Microbiology, Karnatak University, Dharwad

Institutional Capacity Building Partnerships 2012-13

S. No.	Project Title	Project Area	UK Institute	Indian Institution
1	Capacity Building for Enterprise through the delivery of Higher Level Technical Education in India	Skills Development	New College Nottingham	BWI Educon Ventures PVT Ltd
2	D-LITE-Digital Literacy & Innovation for Tomorrow's Education	Skills Development	Edinburgh College and Edinburgh's Telford College	University of Delhi
3	The Promotion of Sustainable Construction Skills Development Training in Rural India	Skills Development	Hull College Group	Drishtee Foundation
4	A collaboration between fashion and education: Embedding social enterprise within the unorganized retail supply chain to foster entrepreneurship	Skills Development	University of East London	Pearl Academy of Fashion
5	Communication and Application of Design to Promote Mutual Creative & Cultural Industries	Skills Development	Perth College UHI	Arch Academy of Design
6	Skill and Employability Enhancement Through Electronic Gaming	Skills Development	Reid Kerr College	Campus of Open Learning, University of Delhi
7	Building Training Capacity of Central and State Government Schools in Vocational Education and Training	Skills Development	Scottish Qualifications Authority, Scotland	National Accreditation Board for Education and Training
8	Faculty Development Programme – To Support Research and Innovation in Media Institutions in India and UK	Skills Development	University of Stirling	Centre for Media Studies
9	Advanced Apprenticeships in sporting Excellence- research study (AASE-RS)	Skills Development	Bradford College	Bharati Vidyapeeth University
10	Building the teaching and learning capacity at NIIFT and Walsall College by developing level 4 and 5 programmes that meet the needs of manufacturing and retail employers in the UK and India	Skills Development	Walsall College	Northern India Institute of Fashion Technology (NIIFT)
11	Computer Games Education – Knowledge Transfer Computer Games Education – Knowledge Transfer	Skills Development	Birmingham City University	CEG Campus, Anna University, Chennai
12	Intermediate Diploma in Global Health and Social Care	Skills Development	Bournemouth and Poole College	NIT Graduate School of Management

Institutional Capacity Building Partnerships 2013-14

S. No.	Project Title	Project Area	UK Institute	Indian Institution
1	To establish Skill Based Teacher's Training documented and supported by Multi Media at MGIS	Skills Development	Dudley College UK	Mahatma Gandhi International School
2	International Curriculum Development In Construction	Skills Development	Burton and South Derbyshire College (BSDC)	MIT Academy of Skill Development
3	Hospitality Entrepreneurship Employability and Enterprise Partnership (HEEEP)	Skills Development	City College Plymouth	Future Sharp Skills Limited
4	Skills Development in Garment Manufacture (SDGM)	Skills Development	Bradford College	Government Polytechnic College
5	Creation of Vocational Trainers in rural India	Skills Development	Pearson Education Ltd	Pearson India
6	Building Training Capacity in Central and State Government Funded Industrial Training Institutes (Reporting to Directorate General of Employment and Training, Ministry of Labour and Employment, Government of India)	Skills Development	West College Scotland	Quality Council of India
7	Mechatronics Curriculum and Faculty Development for Greater Employability and Enterprise among Formal and Informal Sector Workforces	Skills Development	Colleges Northern Ireland	TeamLease Skills University
8	Building Organisational Efficiencies for Small and Medium Enterprises (SMEs)	Skills Development	Belfast Metropolitan College (Belfast Met)	Bombay Chamber of Commerce & Industry Education & Skill Development Committee
9	Community College for Skills Development in Punjab	Skills Development	Hackney Community College	Mehr Chand Polytechnic College, Jalandhar
10	Scottish Textiles, Indian Textiles - Collaborative Hub (STITCH)	Skills Development	Edinburgh College	Government Women's Polytechnic College,
11	Enhancing midwifery and neonatal care through capacity building of midwifery lecturers	Skills Development	University of East Anglia	K.L.E. University's Institute of Nursing Sciences
12	Pedagogical Strategies in Skill Development	Skills Development	NESCOT, Epsom, Surrey	Govt. Polytechnic College
13	The delivery of UK TVET qualifications in the Punjab, India	Skills Development	Glasgow Kelvin College	Ludhiana Polytechnic
14	Institutional strengthening and building capacity to deliver holistic vocational programs within the Construction Sector in India	Skills Development	Highbury College	L&T Construction Skills Training Institute
15	Capacity Building for Entrepreneurship Development for Marginalised Sections of India	Skills Development	Bournville College of Further Education	Confederation of Indian Industries
16	Beyond Borders - A Transnational Approach to Skills Training	Skills Development	Exeter College	Big Spring Pvt. Ltd.

17	Developing employability and personal effectiveness amongst women in India through team and individual study using the performing arts	Skills Development	Superact UK CIC	Don Bosco Tech Society
18	Enhancing Employability Skills for SME's in the Automotive Sector	Skills Development	Bradford College	Lucknow Excellence Cluster
19	Work Tarang Job Readiness Partnership	Skills Development	Worktree, Milton Keynes, UK	Gram Tarang Employability Training Services Pvt Ltd
20	Renewables Industry Partnership Project for Learning Exchange (RIPPLE)	Skills Development	Edinburgh College	Sardar Vallabh Bhai Polytechnic College
21	Evaluation of the "UK Agricultural Training Group model" for local delivery of training, education and knowledge transfer to learners in the agriculture and food chain, and its opportunity to transfer to India to facilitate sector up skilling	Skills Development	Rural Innovation Centre Royal Agricultural University	Agriculture Sector Skills Council
22	Creation of a Management and General Skills SSC	Skills Development	NOCN	All India Management Association
23	Development of structural concrete with the help of plastic waste as partial replacement for sand	Skills Development	University of Bath	Government Polytechnic, Mayem – Bicholim, Goa

UKIERI Department of Science & Technology Partnerships 2013-14

S. No.	Project Title	Project Area	UK Institution	Indian Institution
1	Plasmonics incorporated CZTS based solar cells	Science and Technology	Loughborough University	Institute for Plasma Research
2	Safety, Suitability and Clinical Effectiveness of Unicompartmental Knee Replacement in the Indian population	Health and Disease	University of Oxford	All India Institute of Medical Sciences
3	Development of domestic and -selective electro dialysis unit for community supply of desalinated potable water enriched with essential minerals	Water Desalination and Membrane Science and Technology	Queen's University Belfast	CSIR-Central Salt & marine Chemicals Research Institute
4	Micro/Nano fluidics for Health and diagnostics	Health and Disease	Queen Mary University of London	CSIR-Central Electronics Engineering Research Institute
5	Multiple Carrier Generation in Fission Enhanced Polymer Solar Cells	Science and Technology	University of Cambridge	Indian Institute of Science, Bangalore
6	Direct scaffolding with living cells for engineering 3D multi-cellular functional tissues	Health and Disease	University College London	Indian Institute of Technology Kanpur
7	Nanoscale Surface Engineering in Inorganic Hetero-structures with Enhancement Photocatalysts Activity for Sustainable Solar Hydrogen Production	Science and Technology	University College London	Indian Institute of Technology Delhi
8	Microneedle assisted transdermal delivery of antimigraine and antihypertensive drugs	Health and Disease	Loughborough University	KVSR Siddhartha College of Pharmaceutical Sciences
9	Smart Multi-Terminal DC-grids for autonomous Zero-Net Energy Buildings	Science and Technology	Loughborough University	Indian Institute of Technology Mandi
10	Study of the molecular basis of the choice between miRNA mediated translational suppression and RNA instability in neural cell types.	Health and Disease	University of Leicester	CSIR-Institute of Genomics and Integrative Biology (IGIB)
11	Understanding Pasteuria spore attachment for exploitation as a natural control agent of root-knot and cyst nematode crop pests	Water supply and security	University of Hertfordshire	Indian Agricultural Research Institute
12	To study the gelation mechanism of self-assembling peptide based new hydrogelators for the application of sustain release of drugs	Health and Disease	University of Reading	Indian Association for the Cultivation of Science
13	Novel Biomaterials for localised drug delivery for bone regeneration	Health and Disease	Queen's University Belfast	Indian Institute of Chemical Technology
14	Design and Prototype Development of an Active Matrix Sensor-Actuator User Interface for Social HealthCare	Science and Technology	University of Cambridge	Indian Institute of Science, Bangalore
15	Femtosecond laser-micromachined microfluidics, integrated Surface Enhanced Raman Scattering (SERS) sensors for point-of-care diagnostics	Health and Disease	Heriot Watt University	Centre for Nano Science and Engineering
16	Integrative In vitro and In silico Modelling of Arterial Mechanobiology for Health and Disease: UK-India Education and Research Initiative	Health and Disease	University of Sheffield	Indian Institute of Science, Bangalore

17	Development of solution processed CdTe@ZnTe core/shell nanocomposite plasmonic solar cells	Science and Technology	Heriot Watt University	National Institute of Science & Technology
18	'A Novel strategy for Reprogramming of somatic cells to induced pluripotent stem (iPS) cells by a single Non-coding RNA - Ginir for applications in regenerative medicine'	Health and Disease	University of Bath	National Centre for Cell Science
19	Efficient Waste Water Treatment using Novel Catalysts	Water supply and security	University College London	National Chemical Laboratory
20	To evaluate the role of AMPK mediated signal transduction in models of chemotherapy induced peripheral neuropathy (CIPN) using pharmacological approaches.	Science and Technology	University of Manchester	National Institute of Pharmaceutical Education and Research (NIPER-Hyderabad),
21	Graphene Assisted Low-cost Energy-efficient Solar cell (GALES)	Science and Technology	The Open University	National Institute of Technology Durgapur
22	Developing topoisomerase targets for TB therapy	Health and Disease	John Innes Centre	Indian Institute of Science, Bangalore
23	Identification and characterization of novel germline mutations causing pituitary disease.	Health and disease	Queen Mary University of London	Postgraduate Institute of Medical Education and Research
24	The Energy Cube of the Future	Science and Technology	University of Surrey	University of Hyderabad
25	Development of Efficient low Cost Photovoltaic Solar Cells Based on the use of Tin Sulphide Absorber Layers	Science and Technology	Northumbria University	Sri Venkateswara University
26	Climate-smartening Assam's tea plantation landscapes: defining socio-ecological 'safe spaces' for future sustainability	Science and Technology	University of Southampton	Tea Research Association
27	Green Polymers for Waterborne Pathogen Detection and Treatment	Science and Technology	Heriot Watt University	Thapar University
28	A BCI Operated Hand Exoskeleton based Neurorehabilitation System for Movement Restoration in Paralysis	Science and Technology	University of Ulster	Indian Institute of Technology Kanpur
29	Collaborative scientific and mission definition studies and development of space plasma and planetary instrumentation for future space missions	Science and Technology	University College London	Indian Space Research Organisation
30	Multifunctional hybrid nanocomposites for the separation of toxic and microbial contaminants from water	Water supply and security	University of Central Lancashire	Indian Association for the Cultivation of Science
31	Sustainable Energy Production Through Biomass Gasification Integrated With Solar Thermal Conversion	Science and Technology	University of Exeter	CSIR-Central Salt & Marine Chemicals Research Institute
32	Water Security and Infrastructure Resilience under Climate Change	Water supply and security	University of Exeter	Indian Institute of Science, Bangalore
33	Morphological structuring of polymeric matrices as a novel approach for controlled drug release	Food production and security	Bradford University	CSIR-National Chemical Laboratory

UKIERI Universities Grant Commission Partnerships 2013-14

S. No.	Project Title	Project Area	UK Institution	Indian Institution
1	The Scotland-India Continuum of Ideas: The Relevance of Tagore and his Circle	Humanities	Edinburgh Napier University	Vishva Bharti, Santiniketan
2	Chemical and Biosensors based on two dimensional layered structures and their graphene based hybrids	STEM	University of Southampton	Indian Institute of Technology Bhubaneswar
3	Imaging technologies to understand bioseparations	STEM	University College London	Indian Institute of Technology Delhi
4	Status, taxonomy and conservation of bats in the Andaman Islands, India - building bridges between scientific knowledge and community participation for conservation	Humanities	University of Bristol	Osmania University, Hyderabad
5	Building sustainable agricultural supply chains in India	STEM	Hull University	Indian Institute of Management, Bangalore
6	Metal-Organic Redox Frameworks (MOFs) for Photochemical Textile Processes	STEM	University of Bath	CSIR-Central Electrochemical Research Institute
7	Retrofitting and rehabilitation of reinforced concrete beams using ultra high performance concrete and basalt reinforced concrete overlay	STEM	Cardiff University	CSIR-Structural Engineering Research Centre, Chennai
8	Gendered citizenship: manifestations and performance	Humanities/ Social Sciences	University of Warwick	Jawahar Lal Nehru University, New Delhi
9	Flow modeling for compound channels with non-prismatic floodplains	STEM	University of Leeds	National Institute of Technology, Rourkela
10	Local and Remote influences on Rainfall over India (LORRI)	STEM	Imperial College London	Indian Institute of Science, Bangalore
11	The interaction of ICT networks structure and downstream trade flows: two case studies from India (IRuralNet)	STEM	University of Cambridge	Indian Institute of Technology Madras
12	Ecosystem Assessment of the habitats in the Kachchh District planning for biodiversity and livelihoods into the future	STEM	University of Greenwich	Gujarat Institute of Desert Ecology (GUIDE)
13	Physics and applications of high-aspect ratio Schottky Junction Devices	STEM	Queen's University Belfast	Indian Institute of Science Education and Research, Thiruvananthapuram
14	A comparative study of hierarchical materials for biomedical and lightweight applications: manufacture, characterisation and modelling	STEM	University of Southampton	Indian Institute of Technology Delhi
15	Narratives of Migration and Exchange	STEM	University of St Andrews	Presidency University, Bangalore
16	Urban Water Supply and Governance: Study of Four Indian Cities	STEM	London School of Economics and Political sciences	University of Hyderabad
17	Things Encountered: Object Engagements in Museums in India and the UK	STEM	University of Leicester	National Museum Institute of History of Art

18	Interfacing ad-hoc mobile networks with IP mobile systems	STEM	Anglia Ruskin University	ABV Indian Institute of Information Technology and Management (IIITM) at Gwalior
19	Improving road safety in India and the UK – indepth investigation and analysis of crashes involving vulnerable road users	STEM	Loughborough University	Indian Institute of Technology Delhi
20	Goal-directed future cognition: neural and cognitive mechanisms underpinning the successful completion of planned and intended behaviour and actions	STEM	University of Reading	Indian Institute of Technology Bombay
21	Statistical and epidemiological capacity building to enhance India-UK collaborations	Humanities	London School of Hygiene and Tropical Medicine,	Institute of Home Economics, University of Delhi
22	Significance of pharmaceuticals in the aqueous environment: A global catchment comparison and assessment of treatment processes	STEM	Cranfield Water Science Institute	Jadavpur University, Kolkata
23	Changing nature of the public and the private in school education	STEM	King's College London	Institute of Social and Economic Change, Bangalore
24	NCL-EaStCHEM Network on Sustainable Chemistry	STEM	University of Edinburgh	National Chemical Laboratory
25	Carbon Flux Measurements in Island Rainforest Ecosystems	STEM	University of Oxford	Tata Institute of Fundamental Research
26	Green design to green disposal: Designing the green supply chain for the next generation	STEM	University of Sheffield	Indian Institute of Management, Ahmedabad
27	Adaptive and Reconfigurable Multiband, Multimode and Multifunction Monolithic Millimetre-wave Integrated Circuits (MMICs) Technologies for 5G Wireless Communications	STEM	University of Manchester	Indian Institute of Technology Kanpur
28	Comparing Comparative Literature: Dialogues on Method between St Andrews University, Scotland and Jadavpur University, India	STEM	University of St Andrews	Jadavpur University, Kolkata
29	A Gerontology Research Centre for the Study of the Impact of Population Ageing, Migration, Environmental and Social Change on Older People and their Families in India	STEM	Swansea University	The University of Burdwan
30	Fabrication of p-i-n photovoltaic devices hybridized with core-shell CdSe/TiO ₂ nanostructures for enhanced quantum efficiency	STEM	University of Southampton	Tezpur University
31	Performance enhancement of solar water heater integrated with latent heat thermal storage system using nano-enhanced phase change materials	STEM	University of Birmingham	Anna University, Chennai
32	Electro-optical Properties of Magnetically Modulated Graphene	STEM	University of Bath	Indian Institute of Technology Delhi

Sector Skills Collaborations 2013-14

S. No.	Project Title	Project Area	UK Institute	Indian Institution
1	Sharing best practice and opening up future partnerships in logistics skill development-India/UK collaboration	Skills Development	Skills of Logistics	Confederation of Indian Industry
2	Supporting innovation in understanding the labour market and occupational requirements of the Rubber producing and manufacturing sector in India	Skills Development	Lantra (UK Sector Skills Council for Land-based & Environmental Industries)	Rubber Skill Development Centre (India Sector Skill Council for Rubber Sector)
3	Promoting the take up of Occupational Standards in the Indian Agriculture Sector through developing a unique system for managing their development and review	Skills Development	Lantra (UK Sector Skills Council for the Land-based & Environmental Sector)	Agriculture Skill Council of India (ASCI)
4	Development of Competency based Curriculum and Course Content aligned with Occupational Standards, developed by HSSC for Healthcare Job-Roles	Skills Development	Skills for Health	Healthcare Sector Skill Council

UKIERI Universities Grant Commission Partnerships 2014-15

S. No.	Project Title	Project Area	UK Institution	Indian Institution
1	New frontiers in multiwavelength astronomy: correlated variability of accreting black holes and neutron stars from optical to X-rays	Astrophysics	University of Southampton	Pune University
2	UKIERI Thematic Partnership In Vivo and In Vitro Studies of Plant Expressed Recombinant Antigens and Antibodies Against Chikungunya Virus	Plant Molecular Pharming	St. George's, University of London	Bharathiar University, Coimbatore
3	From Periphery to the Centre: federalization of the Indian Foreign Policy Making process	Social Science	University of Hull	University of Calcutta
4	Climate and Culture: Environmental contextualisation of the development of human society in Western and Central India	Archaeology / Humanities	University of Exeter	University of Baroda
5	Child Rights along the Journey from Victim to Survivor –Victims of Sexual Offences and Criminal Justice	Victimology / Criminology/ Law	University of Central Lancashire	Manonmaniam Sundaranar University
6	Automatic detection of verbal threat in Hindi and English aggressive speech	Linguistics, Computer Science, Engineering	University of Huddersfield	Bhimrao Ambedkar University
7	Comprehensive tourism revival framework for socio-economic development in post-conflict Kashmir: Lessons from Northern Ireland	Social sciences	Bournemouth University	University of Jammu
8	An interactive Spatial Decision Support System for monitoring Public Health using Geoinformatics	Public Health	University of Cambridge	Central University of Karnataka
9	Earthquake Hazard Evaluation in Jammu and Kashmir Himalaya and Western Indo-Gangetic Plains	Earth Sciences (Geophysics)	University of Cambridge	Shri Mata Vaishno Devi University
10	Proof of principle studies and Technology Transfer of a Novel in-vivo. Probe for real-time Longitudinal Monitoring of Inducible Nitric-Oxide Synthase (iNOS): A Key Enzyme Associated with Human Pathophysiology	Healthcare: Innovation Promotion and Technology Transfer	University of Oxford	University of Calcutta

UKIERI Department of Science & Technology Partnerships 2014-15

S. No.	Project Title	Project Area	UK Institution	Indian Institution
1	Desalination powered by sustainable energy for water and food	STEM	Aston University	Anna University
2	Smart-orthoses for improved FES control of paralyzed limbs	STEM	Imperial College London	Christian Medical College
3	Development of biodegradable CNS-targeted nanoparticles for a novel therapeutic approach in chemotherapy of Neuro-AIDS	STEM	King's College London	Dibrugarh University
4	Biomethanation of food & market waste – optimization of different parameters for enhanced production of biogas and conversion to organic manure for a zero waste system	STEM	Loughborough University	CSIR-Central Mechanical Engineering Research Institute
5	Development of a low-cost, low-power and compact gas sensing platform	STEM	University of Cambridge	International Institute of Information Technology
6	BCI as an Intelligent Sensor: BCI Integrated Collaborative Control of a Cognitively Enhanced Smart Wheelchair	STEM	University of Essex	Tezpur University
7	Polymer and Carbon based Three Dimensional Micropatterned Nanofabric with Enhanced Wettability Contrast	STEM	University of Exeter	Indian Institute of Technology Hyderabad
8	Enhanced delivery of newly modified nucleic acid mimetics in bacteria	STEM	University of London	University of Delhi
9	Development of anode for direct hydrocarbon solid oxide fuel cell	STEM	University of St Andrews	Indian Institute of Technology Delhi
10	Project Title Modelling and simulation of thermoacoustic heat engines	STEM	Imperial College London	Indian Institute of Science
11	Tidal Energy Resource Assessment for Potential Indian Sites and Impact of Energy Extraction on Environments	STEM	The University of Edinburgh	Indian Institute of Technology Bombay
12	Efficient Reuse of Advanced Composite Materials by Nanosecond Laser Processing	STEM	Loughborough University	Jadavpur University, Kolkata
13	Development of detection methods for some pesticides in water samples	STEM	University of Cambridge	Indian Institute of Science Education and Research, Kolkata
14	Measuring the impact of forest fragmentation on pollination services in small agricultural holdings within the Western Ghats landscape	STEM	University of Exeter	Indian Institute for Science Education and Research Trivandrum
15	Quantifying the impact of urbanisation and climate change on the microclimate of Bhubaneswar	STEM	University of Southampton	IIT Bhubaneswar
16	Development of high performance carbon nanomaterials for enhancing the cathodic oxygen reduction and performance of anode in microbial fuel cells	STEM	Newcastle University	Indian Institute of Technology Kharagpur
17	Development of Smart FRP Wraps for Monitoring and Strengthening of Vulnerable Civil Engineering Infrastructure in our cities	STEM	City University London	Indian Institute of Technology Roorkee
18	Multiscale Modelling of Cancer in Soft Tissue: Towards Quantitative Prediction of Drug Delivery and Tissue Response	STEM	Heriot-Watt University	Annamalai University

19	Development of Integrated High-Throughput Computational Algorithms and Pipelines for Variant Discovery in Human Diseases Derived from Whole-Genome Sequencing Data.	STEM	Manchester University	Institute of Bioinformatics and Applied Biotechnology
20	Miniaturised compact solar concentrators for water desalination/purification	STEM	Brunel University London	National Institute of Technology Tiruchirappalli
21	Household Food Insecurity, Food practices and Health Risks among Indian women	STEM	Queen's Medical Research Institute	Sam Higginbottom Institute of Agriculture, Technology and Sciences
22	Development of Marine Energy System for Indian Remote Islands	STEM	Queen Mary University of London	VIT University
23	Structural reinforcement and improvement of compressive strength after impact (CIA) in hybrid graphene nanocomposites	STEM	Robert Gordon University	University of Petroleum and Energy Studies
24	Design of Application specific Network on Chip with reliable custom topology for Aerospace and Internet of Things	STEM	The University of Edinburgh	Oxford Engineering College
25	Electrospun silk-bioglass scaffold for interfacial tissue engineering	STEM	University College London	Indian Institute of Technology Guwahati
26	Study and development of non-invasive ambulatory respiratory and cardiac monitoring system for mobile health monitoring using photonic crystal fibre.	STEM	Kingston University	CSIR-Central Glass and Ceramic Research Institute
27	Exploring the impact of food processing on the sustainability of the food supply chains - a UK, India Bilateral Analysis	STEM	University of Cambridge	ABV-Indian Institute of Information Technology and Management
28	New materials for high performance, low cost, sustainable sodium ion batteries	STEM	University of Glasgow	Central Electrochemical Research Institute
29	A partnership to maximize nitrogen use efficiency in crops by understanding a NO-mediated modulatory switch	STEM	Aberystwyth University	National Institute of Plant Genome Research
30	An innovative tissue-engineered corneal regenerative therapy derived from a thermoresponsive bio-functionalized polymer and multipotent corneal stromal stem cells	STEM	University of Nottingham	Sree Chitra Tirunal Institute for Medical Sciences and Technology
31	Comparative gut eukaryotic microbiome in inflammatory bowel disease: Search for a common link in genetically similar population residing in areas with differing disease prevalence	STEM	University of Oxford	All India Institute of Medical Sciences
32	Performance and Emission studies on biofuel blended with high Oxygen Storage Capacity nanoparticles using an indirect Injection engine	STEM	University of Ulster	Indian Institute of Technology Guwahati
33	Harnessing climate data and remote sensing products to promote community-led innovation in adaptive natural resource management for improved food security in the changing climate of the Kumaon Lesser Himalaya (KLH)	STEM	Newcastle University	Kumaun University

UKIERI

UK-India Education
and Research Initiative

Contact us:

UKIERI Secretariat-India

British Council

17 Kasturba Gandhi Marg

New Delhi 110001

Tel: +91 11 4149 7384 / 7336

Email: ukieri@britishcouncil.org

www.ukieri.org