

The background of the cover features a large, abstract graphic of overlapping, curved bands in shades of blue, purple, and pink, creating a sense of depth and movement. The text is positioned in the upper left and lower right areas.

UKIERI

UK-India Education
and Research Initiative

**Annual Report
2013-14**

www.ukieri.org

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UKIERI Update

UKIERI is being implemented with the aim to bring forth a unique initiative that strengthens the bilateral relationship between India and the UK and set an example of best practice in international cooperation. The initiative is working towards developing programmes that meets the priorities and needs of both India and the UK and bring about a systemic change in the educational sector of both India and the UK.

UKIERI is a multi-stakeholder partnership programme supported by Department for Business, Innovation and Skills, Ministry of Human Resource Development, Foreign and Commonwealth Office, British Council, Department for Science and Technology, Department for Employment and Learning, Scottish Government, Welsh Government and University Grants Commission.

Key Highlights (2011-2014)

- 208 Higher Education Partnerships involving over 400 institutions to undertake joint research, curriculum development and programme delivery

- 55 Skills Partnerships to support curriculum development and delivery industry relevant training
- 216 Facilitation grants for partnership development, sharing of best practises on pedagogy and professional development
- Opportunity to 525 under graduates from UK universities to visit India under Study India Programme
- Constitution of India- UK Taskforce on qualification recognition
- 30 events including policy dialogues, networking events, dissemination workshops and outreach activities
- Opportunity to 26 graduates from UK Universities to undertake work placements and industry led training in Indian companies

Focus Areas:

- 1. Leadership Development**
- 2. Innovation Partnerships**
- 3. Skill Development**
- 4. Enhancing Mobility**

Strand 1: Leadership Development

- Discussions underway for agreement of Memorandum of Understanding (MoU) with Tata Institute of Social Sciences on collaborating for Rashtriya Uchchatar Shiksha Abhiyan(RUSA)-National Higher Education Mission of MHRD on leadership development in Higher Education sector. It is expected that through this collaboration, curriculum and content design for training programmes will be developed and jointly delivered with UK Universities. Policy research and enhancing capacities of state regulatory agencies to improve quality of higher education institutions would also be included in the collaborative arrangements.
- Significant progress on UKIERI School Leadership programme has led to the development of a national school leadership programme for secondary principals. Implemented jointly with National College for Teaching and Leadership and NUEPA, over 2000 school principals are expected to be trained by end of June 2014 in two pilot states of Rajasthan and Tamil Nadu. MHRD is keen



to continue the programme delivery into new states and consolidating the work in the pilot states.

- UKIERI AICTE Further Education Leadership Development programme is on track with training workshops organised with 144 senior staff and faculty from polytechnics and vocational institutions trained in NITTR Chennai and Chandigarh. The first cohort is expected to visit Dudley College to reflect on their learning's and interact with senior managers. 250 senior staff from polytechnics and vocational institutions would be trained by end of 2015.



Strand 2: Innovation Partnerships

- 33 Thematic research partnerships jointly announced with University Grants Commission(UGC) across a number of subject areas in 2013-14. Total of 53 partnerships have been supported so far. Discussions underway to agree on the joint call for 2014-16 along with joint dissemination and thematic workshops.
- 33 Thematic research partnerships jointly announced with Department of Science and Technology(DST) across a number of subject areas in 2013-14. Total of 57 partnerships have been supported so far. Discussions underway to agree on the joint call for 2014-16 along with joint workshops, short staff exchanges, researcher grants etc.
- Supported capacity building workshops, delegation visits, conferences and seminars on industry academia, quality assurance, accreditation and assessment with partners like Quality Assurance Agency for Higher Education(QAA), Higher Education Funding Council of England(HEFCE) and Universities UK.



- Ministry of Small and Medium Enterprises and FICCI have been engaged in initial discussions for the possible joint call on Knowledge Transfer Partnerships jointly with Technology Strategy Board. Re- initiated discussions with CII, Science Innovation Network and Technology Strategy Board on this possible pilot of Knowledge Transfer Partnerships linking GITA TSB “India-UK Collaborative Industrial R&D Programme”.
- Exploring opportunities of possibly initiating or supporting activities and themes identified under Newton Fund.



Strand 3: Skills Development

- 25 ICB partnerships were supported in 2013-14 to collaborate on engagement approaches, capacity building, train the trainers, curriculum development, certification and assessment thereby strengthening the delivery capacity of vocational and further education institutions.
- 4 SSC collaborations were funded in 2013-14 to support SSCs leading to operational strong sector skills bodies underpinned with occupational standards and qualifications resulting in strong and Industry relevant skilled manpower.
- Memorandum of Understanding signed with Ministry of Labour and Employment (MOLE) to support in the creation of national career services, engage on apprenticeships and undertake capacity building initiatives.
- First workshop on National Career services was organised which included participation from BIS and Scotland. Follow up visit is being planned for June – July 2014 to the



UK by policy implementation and government representation from MOLE.

- Joint call on Community Colleges with Ministry of Human Resource Development (MHRD) and all India council for Technical Education (AICTE) to support 25 Community Colleges set up in states of Haryana, Tamil Nadu, Karnataka and Madhya Pradesh. NITTR from Bhopal, Chennai, Kolkata and Chandigarh will provide infrastructural and administrative support for these partnerships.



Strand 4: Enhancing Mobility

- Supported 17 UK graduates and university students under the Wipro India Gateway Internship programme which was conducted at Wipro's facilities in India. The Wipro India Gateway Internship Programme was aimed at making students employable in the IT sector across the globe through a mix of classroom and practical training. Due to substantial per person cost, this programme will not be supported for 2014.
- 9 UK graduates completed the work placement programme delivered by Dundee College as the pilot programme. The programme was discontinued due to issues around finding the right placement providers for internships, adequate stipend for interns and lack of industry led support for the programme.
- Supported outward mobility of 200 UK students to India through Study India programme 2013 to give social, economic and cultural exposure to students to make them global citizens. The participants also undertook internships for a week with corporates, NGOs, multinational companies to get an insight of working in India which embedded values like entrepreneurial skills, work commitment, business ethics in these young minds. Some of the companies amongst many others that offered placements were Tata Consultancy Services, Tata Motors, Supreme Court in Delhi, All India Council for Technical Education etc. The students were fortunate enough to also interact with Indian Human Resource Development Ministers to reflect on their understanding of Indian history, culture and work environment in India. SIP 2014 registration is currently underway with over 4400 applicants registered from 131 different UK universities and 49 different FE colleges. 75% of applications are from England, 14% from Scotland, 6th from Wales and 5% from Northern Ireland.
- Members of the India UK taskforce of Qualification recognition met to discuss progress on the mutual recognition of qualifications and support framework for collaborative learning. Senior representatives from both governments, regulatory agencies and sector experts are members of this taskforce.



Key Events and Activities

National Workshop on Quality Assurance and Accreditation

UKIERI in partnership with Ministry of Human Resource Development, Government of India and National Board of Accreditation has organised a two day workshop to provide a road map for using accreditation as tool for ensuring quality in Indian Higher and Technical Educational Institutions. The workshop was organized on 12-13 May 2013 in New Delhi and was open to all State Higher and Technical educational institutions and representatives from regulatory and accreditation bodies. Over 200 participated in the workshop and the feedback has been very positive.

UK Minister Matthew Hancock visits Indian states

As a follow up to the visit by Minister Matthew Hancock, visits were made to the State of Uttar Pradesh, Punjab and Haryana for further engagement of the states with UKIERI. Principal



Secretaries from all the three states have shown keen interest in engaging with the programme and to collaborate with UKIERI for various activities. Post the visit two public funded FE Colleges from Punjab are now working closely with UK institutes to put in a bid around community colleges under the current UKIERI call for bids.

Senior Welsh Government delegation visit to Jawaharlal Nehru University

Under the auspices of UKIERI, Mr Gary Davies, Head of European & External Affairs, Welsh Government and Mr Iain Quick, Welsh Government Business Development Manager visited Jawaharlal Nehru University (JNU) on 8 July 2013 to meet the research team & the PhD students who recently visited Bangor University, Wales on a UKIERI awarded tripartite partnership to interact with project awardees and understand the project progress.

Thematic Project Review workshop

UKIERI organized a project review workshop for thematic partnerships awarded in 2011. 30 institutions recently participated in the two day workshop held on 22-23 August to share research progress and best practices of sustaining these partnerships. The institutional representation was through project investigators who spoke about their research across diverse scientific and technological themes.



FICCI Global Skills Summit 2013

FICCI Global Skills Summit was on 4 & 5 September. UKIERI project awarded on developing “National Occupational Standards in Dental & Nursing” was showcased as a case study. The project partners Coatbridge College and Kuravackal Educational and Charitable Trust have developed 4 NOS and they are in discussion with Healthcare SSC for approval.

Skills Roundtable with UKIBC

UKIERI participated in Round table organised by UKIBC on 6 Sep with Mr Ramadorai- Adviser to PM on Skills Development. The round table delegates included key skills contacts, DFID and deliberated on role of international agencies and companies in Indian Skills development.

SIP 2013 Farewell Event

On 6 September 2013, UKIERI bid farewell to 200 UK students who participated in this year’s programme. Addressing the students, Honorable Minister Shri Pallam Raju, Minister for Human Resource Development, Government of India reiterated that UKIERI Study India Programme helps connect the younger generations to gain deeper understanding of the global context while emphasizing that the participants of SIP will become ambassadors of India in the UK.

Showcase of UKIERI Scottish Partnerships

UKIERI showcase event focused at opportunities for Scotland through UK India partnerships was organized on 14th October 2013 in New Delhi.

Selected projects awarded under the programme were exhibited for visiting Scottish Minister Mr. Humza Yousaf - Minister for External Affairs and International Development, Scottish Government. Respective project leads were invited for the event. The Minister acknowledged the excellent work being undertaken by UKIERI and also supported the strengthened linkages between Scottish and Indian institutions through UKIERI.

Launch Workshops of UKIERI School Leadership Program in Tamilnadu and Rajasthan

UKIERI School Leadership program to be jointly implemented by NCTL and NUEPA was formally launched in the states of Tamilnadu and Rajasthan. Through capacity building workshop at both states 100 Tutor facilitator have been trained which have further cascaded training to 800 school principals.

UK visit by Secretary Higher Education, MHRD

Mr. Ashok Thakur, Secretary Higher Education, MHRD visited UK to meet various stakeholder in higher education to explore the opportunities for collaboration in Higher Education between two countries. During his visit he did some fruitful meetings with senior officials from BIS, Quality Assurance Agency, UK, Department for Employment and Learning etc.

UK visit by Secretary School Education, MHRD

Mr. Rajarshi Bhattacharya, Secretary School Education visited National College for Teaching and





Leadership, UK to get an update on UKIERI School leadership programme implemented by NUEPA and NCTL.

UKIERI –MHRD Consultation Workshop on Higher Education Leadership Development Programme

The workshop organised in collaboration with MHRD in November 2013 brought together over 70 policy makers and senior government representatives from across 18 states to deliberate on the need of Higher Education sector and the model for developing a scalable sustainable higher education leadership programme. The representation from states was very encouraging and participants included principals from autonomous colleges, vice chancellors from state universities and senior representatives from higher education councils and state governments like Orissa, Nagaland, Manipur, West Bengal, Kerala, Jammu and Kashmir, and Tamil Nadu.

Visit by BIS officials

Ms. Maddalaine Ansell and Ms. Laura Robinson senior officials from the Department of Business, Innovation and Skills visited India for finalizing the MoU between BIS and MOLE on the areas of Skills Development. They also participated in RCUK fifth anniversary event.

RCUK 5th Anniversary Celebrations Event

UKIERI participated in reception event to celebrate five years of RCUK operations in India.

The event was addressed by senior officials from Indian and UK Government. During the event Prof. Sir Mark Walport Chief Scientific Advisor to UK government announced 60 new joint research partnerships under UKIERI worth over GBP 3 million in collaboration with University Grants Commission and Department for Science and Technology. The events saw participation from senior researchers from India and UK and provided excellent networking opportunity.

UKIERI Showcase Event

UKIERI organized a showcase event during the visit of Mr. Martin Davidson –Chief Executive, British Council .The event was aimed at facilitating interaction with UKIERI project awardees across the four strands of the program for experience sharing with awardees , review progress against outcomes and get feedback on the programme.

UKIERI Awards Announcement Event

UKIERI announced 96 institutional partnerships spread across Higher Education and Skills Development during the visit of Chair of British Council Sir Vernon Ellis on 3rd February 2014.The announcement was done through a networking event which saw participation from stakeholders, senior academicians and beneficiaries of UKIERI program.

UKIERI MOLE Workshop on Career Services

UKIERI in collaboration with Ministry of Labour and Employment conducted a workshop on





Career service. Aim of the workshop was to map the existing systems in both the countries, draw similarities and deliberate on the area where the expertise can be drawn from the UK to make the Indian system more robust and conducive to the Indian requirements.

MHRD UKIERI National Workshop on Community Colleges

UKIERI in collaboration with MHRD organized national workshop on Community colleges. UKIERI has signed a MoU with MHRD to create a framework for development of Community Colleges. The national workshop was a platform to formalize the way forward. Workshop was participated by state secretaries, Technical Department heads, Nodal officers and Principals of all 25 identified community colleges.

DFID Permanent Secretary Mark Lowcock visits UKIERI project at IIT Delhi

Mark Lowcock, Permanent Secretary, DFID visited IIT Delhi on 21st March, 2014 to interact with the

Director and project team working on UKIERI Trilateral Partnership between IIT Delhi, University of Birmingham and Desert Research Institute, USA. This award was granted in 2008 and is focussed on evaluation of quantitative dispersion models for urban air quality assessment. During Mark's interaction with Prof. R Shevgaonkar, the Director IIT Delhi appreciated the role of UKIERI in being more strategic and focussed than other initiatives with different countries. There was a discussion around future opportunities and suggested areas included further collaboration between students at Masters, PhD and post-doctoral level.

Workshops under UKIERI AICTE Further Education leadership Development Program at Chandigarh and Chennai

UKIERI AICTE Further Education Leadership Development programme is focusing on application of effective leadership and management techniques and their beneficial impact on departmental and institutional performance. It is expected that 250 senior staff from polytechnics and Vocational institutions would be trained by end of 2015. Under the programme, the first workshops were organized at NIITR Chennai (28-30 April) and NIITR Chandigarh (30-2 May) to bring together senior participants from across polytechnics to learn about leadership concepts, contextualize good practice in leadership, quality assurance and develop skills for organizational leadership.

Awards

UGC UKIERI Thematic Partnerships 2013

S.No	Project Title	UK Lead Institution Name	India Lead Institution Name	Project Description
1	The Scotland-India Continuum of Ideas: The Relevance of Tagore and his Circle	Edinburgh Napier University	Shanti Niketan	The main aim of the project is to trace the exchange of ideas and people between Scotland and India from mid-nineteenth to mid-twentieth century and reaffirm the relevance of the work and ideas of Tagore and his circle
2	Chemical and Biosensors based on two dimensional layered structures and their graphene based hybrids	University of Southampton	Indian Institute of Technology, Bhubaneswar	The main aim of the project plan is to fabricate efficient chemical and biosensors based on graphene, transition metal dichalcogenides (TMDs) and their hybrids with Au, Ag, Pt nanoparticles.
3	Imaging technologies to understand bioseparations	University College London	Indian Institute of Technology, Delhi	The main objective of the project is to investigate how advanced imaging techniques can enhance our understanding of the fundamental mechanisms causing aging and fouling phenomena.
4	Status, taxonomy and conservation of bats in the Andaman Islands, India - building bridges between scientific knowledge and community participation for conservation	University of Bristol	Osmani University, Hyderabad	The project aims at filling the lacunae of bat studies in the Andaman Islands by understanding current status, taxonomy, diversity and distribution, and to create awareness among stakeholders to conserve bats including two globally threatened species and 6 endemic taxa (including one species).
5	Building sustainable agricultural supply chains in India.	Hull University Business School	Indian Institute of Management, Bangalore	The aim of the project is to provide a forum for researchers and practitioners to meet and share current developments and major challenges in the creation of sustainable agricultural supply chains in the Indian context. The project has two important aspects: (1) creating a network and (2) developing a knowledge-base for sharing and exchanging expertise between the UK and India in the creation of sustainable agricultural supply chains in India.

S.No	Project Title	UK Lead Institution Name	India Lead Institution Name	Project Description
6	Metal-Organic Redox Frameworks (MOFs) for Photochemical Textile Processes	University of Bath	CSIR-Central Electro Chemical Reseach Institute, Karaikudi	The main aims and Objectives is to synthesise and study new types of dye-loaded MOFs via (i) physisorption and (ii) via post-synthetic covalent attachment and To employ “conformal transformation” of MOFs for the production of novel low density photo-absorber materials based on oxides
7	Retrofitting and rehabilitation of reinforced concrete beams using ultra high performance concrete and basalt reinforced concrete overlay	Cardiff University	CSIR-Structural Engineering Research Centre (SERC),Chennai	The main aim of the project is - Development of Methodologies for Retrofitting and Rehabilitation of Reinforced Concrete (RC) beams using Ultra High Performance Concrete (UHPC) and basalt reinforced concrete (BRC) overlay.
8	Gendered citizenship: manifestations and performance	University of Warwick	Jawahar Lal Nehru University, Delhi	The main aim of the project is to apply multidisciplinary research to look at legal, socio-cultural and Performative aspects of construction of gender, violence against women, victimhood and public opinion in contemporary times.§ Everyday life and issues of socialization in a globalized world, to explore the notions of gendered citizenship, and commodification of women.
9	Flow modeling for compound channels with non-prismatic floodplains	University of Leeds	National Institute of Technology, Rourkela	The main objective i s to Enhanced understanding of flow processes in a two stage non-prismatic compound channel flow having convergent and divergent geometry along the longitudinal sections. 2) To quantify the influence of change in geometry, surface and flow conditions in predicting flow profiles, discharge distribution, boundary shear stress distribution, stage-discharge prediction etc.
10	LOcal and Remote influences on Rainfall over India (LORRI)	Imperial College London	Indian Institute of Science, Bangalore	The ain aim of the project is to understand how short-lived climate pollutants (SLCPs) such as aerosols and ozone precursors affect South Asian climate in general, and rainfall in particular.To compare SLCP effects with effects of long-lived greenhouse gases (mainly CO ₂) in the region.To understand whether local or remote emissions of such constituents are more important for regional climate change over India
11	The interaction of ICT networks structure and downstream trade flows: two case studies from India (IRuralNet)	University of Cambridge	Indian Institute of Technology Madras	This project will examine how to remove bottlenecks to Internet access for rural agricultural production and of community based tourism.
12	Ecosystem Assessment of the habitats in the Kachchh District planning for biodiversity and livelihoods into the future	University of Greenwich	Gujarat Institute of Desert Ecology (GUIDE)	The main aim of the project is the rapid spread of the introduced tree Prosopis, which has become important for livelihoods but is simultaneously replacing native vegetation and altering habitats. This project will take an ecosystem approach to evaluating this impact and formulate a landscape scale management strategy to address this apparent conflict.

S.No	Project Title	UK Lead Institution Name	India Lead Institution Name	Project Description
13	Physics and applications of high-aspect ratio Schottky Junction Devices	Queen's University	Indian Institute of Science Education and Research Thiruvananthapuram	This project addresses fabrication of high aspect ratio metal-semiconductor nano-scale Schottky junction (nSJ) devices to investigate electrical transport along these devices and to study their response for developing gas sensors with ultra-high sensitivity (<1ppm for hydrogen). This is based on the change in Schottky barrier height upon exposure to gasses like H2. Experimental work will be backed by finite element modelling of electrical transport in the devices to better comprehend the parameter space for device sensitivity optimization.
14	Narratives of Migration and Exchange	University of St Andrews	Presidency University, Kolkata	This interdisciplinary research project will explore, from a variety of approaches, the complicated network of exchange of people, ideas, technologies and capital which mark the colonial legacy in India and in Europe. The project will include four interlinked strands: Partition, Migration and Independence; Francophone Exchanges; Scottish Cemeteries and The Jute Industry. These strands will together shed new light on the complex power-dynamics that characterise the colonial and post-colonial world. Through regular research trips, research symposia, and postgraduate training workshops, we will both produce significant original research and create opportunities for future collaborations. In the process, we will leave a strong intellectual and pedagogical legacy in both partner universities which will continue after the life of the project.
15	Urban Water Supply and Governance: Study of Four Indian Cities	London School of Economics and Political sciences	University of Hyderabad	The objective of this project is to evaluate the institutional arrangements of urban water service delivery and governance in India. This study will examine water policy instruments and focus on institutional capabilities to provide drinking water to urban households in an efficient and equitable manner, while at the same time ensuring sustainability of the resource and minimising conflicts among various stakeholders
16	Things Encountered: Object Engagements in Museums in India and the UK	University of Leicester	National Museum Institute of History of Art, Delhi	Project aims to exchange and share training of museum studies researchers, in the process widening the scope of tomorrow's leading museum studies academics and frontline professionals in both India and the UK , Establish a durable structure for ongoing, long-term Indo-UK collaboration in this disciplinary area
17	Interfacing ad-hoc mobile networks with IP mobile systems	Anglia Ruskin University	ABV Indian Institute of Information Technology and Management (IIITM),Gwalior	The aim of project is Design and construct a platform framework capable of aggregating together networking resources pertaining to wireless communication devices and develop a Mobile Ad-Hoc 'Resource Sharing' Network (MARS-NET) Protocol.

S.No	Project Title	UK Lead Institution Name	India Lead Institution Name	Project Description
18	Improving road safety in India and the UK – indepth investigation and analysis of crashes involving vulnerable road users	Loughborough University	Indian Institute of Technology Delhi	This project will focus on developing an engineering perspective to accident causation by combining the accident analysis capabilities of Loughborough University in the UK with the simulation and engineering skills of IIT Delhi. The project outcomes will benefit crash reduction in both countries and support new collaborations.
19	Goal-directed future cognition: neural and cognitive mechanisms underpinning the successful completion of planned and intended behaviour and actions	University of Reading	Indian Institute of Technology Bombay	The aim of the project is to examine the impact of imagery perspective in two exemplars of goal-directed thinking to explore the developmental time course of goal-directed future thinking and to investigate the neural correlates of visual imagery perspective in future thinking.
20	Statistical and epidemiological capacity building to enhance India-UK collaborations	London School of Hygiene and Tropical Medicine	Institute of Home Economics (Delhi University)	The main aim of project is to Provide Indian researchers with current statistical knowledge and skills for evidence-based health care decision making, Give Indian researchers hands-on experience with data handling and analysis and Maximize outputs of the DIVIDS-1 and DIVIDS-2 research studies of vitamin D and health of Indian children by additional analyses of existing databases. Give UK researchers exposure to benefits and complexities of epidemiological research in India.
21	Significance of pharmaceuticals in the aqueous environment: A global catchment comparison and assessment of treatment processes	Cranfield University	Jadavpur University	The main aim of project is to develop a robust analytical methodology for the determination of pharmaceuticals in wastewaters and surface waters, to assess the levels of pharmaceuticals in wastewaters and their temporal variation, determine pharmaceutical concentrations in surface waters specifically used for irrigation and design a selective and rapid (portable) sensing system for detection of wastewater pharmaceuticals.
22	Changing nature of the public and the private in school education	King's College, London, United Kingdom	Institute of Social and Economic Change (ISEC)	The project is envisaged as part of a research study that examines the changing nature of the public and the private in the school education system in India. The specific objectives of the project are to: Consolidate the Research Design and Conceptual Analysis of the research study by drawing upon earlier collaborative work among the Principal Researchers, enable faculty exchange among the collaborating institutions to explore new areas of collaborative research and teaching and facilitate inter-institutional learning for students in Higher Education.

S.No	Project Title	UK Lead Institution Name	India Lead Institution Name	Project Description
23	NCL-EaStCHEM Network on Sustainable Chemistry	University of Edinburgh	CSIR- National Chemical laboratory, Pune	The project will build multifaceted interactions between research groups in EaStCHEM (Universities of Edinburgh and St Andrews) and National Chemical Laboratory, Pune, jointly addressing key global challenges in sustainable chemistry. This will involve several inter-related research themes including energy materials, (bio)catalysis and renewable feedstocks. True partnerships are founded upon genuine and active research collaborations; we will use longer exchanges of PhD students, supported by shorter visits of academic staff to build several vibrant projects at the leading edge of sustainable chemistry research.
24	CARBON FLUX MEASUREMENTS IN ISLAND RAINFOREST ECOSYSTEMS	University of Oxford	Tata Institute of Fundamental Research (TIFR)	The main Objective is: To quantify the aboveground carbon efflux rates from soil and tree stem surfaces within two recently-established forest census plots in the Andaman and Nicobar Union Territory, The well-established Wytham Woods field site, Oxfordshire, will be used as a 'training forest' for the Indian visiting researchers involved in the Andaman plots. Ongoing carbon measurement at Wytham is also at a crucial stage and projects will be carried out at Wytham to contribute to the long-term carbon monitoring programme based around the Wytham Core Plot.
25	Green design to green disposal: Designing the green supply chain for the next generation	The University of Sheffield	Indian Institute of Management (IIM), Ahmdabad	The project aims to investigate the current state of green supply various stages of the product life cycle from product design to disposal. The project explores the barriers and motivations for adopting green practices in Indian and UK industries, and analyses the emerging concepts, tools and methodologies in green supply chain to develop the strategy for the next generation. Highlighting the current emphasis on minimising carbon emissions, the project will provide guidelines and recommendations to companies in India and the UK for effectively implementing green principles when designing their green supply chains.
26	Adaptive and Reconfigurable Multiband, Multimode and Multifunction Monolithic Millimetre-wave Integrated Circuits (MMICs) Technologies for 5G Wireless Communications	University of Manchester	Indian Institute of Technology Kanpur	The aim of this project is to nurture the cooperation between the named HEIs in the important research area that brings expertise together to address challenges in millimeter-wave monolithic integrated circuits (MMICs), characterisation and sub-systems design for 5G wireless communications systems. The two way flow of knowledge and complementary techniques will allow for larger joint research projects to be undertaken between Manchester and IIT Kanpur beyond this initial 24-month program. The resulting MMIC architecture and chip design, measurement and calibration, modeling and device characterization know-how will develop researchers to engage with the emerging communications, defence and satellite industries.

S.No	Project Title	UK Lead Institution Name	India Lead Institution Name	Project Description
27	Comparing Comparative Literature: Dialogues on Method between St Andrews University, Scotland and Jadavpur University, India	Universit of St. Andrews	Jadavpur University	This is envisaged as the first phase of a long-term project whose aim is to establish (in tandem) lasting research and educational links between the University of St Andrews' Comparative Literature section and that of the University of Jadavpur. This phase includes: hosting of and participation in a series of research activities including workshops, research seminars and two conferences, one in each institution, on the history, theory and practice(s) of comparative literature, these leading to co-edited publications; exploration and initiation of pedagogic synergies and the scope for the mutual delivery of online materials, student online projects; the delivery of joint programmes.
28	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	Swansea University	The University of Burdwan	The project aims to establish a Centre of Gerontological Research in Burdwan University by sharing examples of good practice from the Centre of Innovative Ageing (CIA), develop post-graduate research in Ageing Studies in Burdwan by establishing the infrastructure to support research students and initiating a PhD research programme building on existing research conducted by the CIA.
29	Fabrication of p-i-n photovoltaic devices hybridized with core-shell CdSe/TiO ₂ nanostructures for enhanced quantum efficiency.	University of Southampton	Tezpur University	Our aim is to fabricate CdSe/TiO ₂ core-shell nanostructures using colloidal chemistry and to incorporate them in p-i-n structures for making cost effective and environment-friendly solar cell devices. Reports indicate that core-shell structures will act as better materials for light harvesting since they allow for exciton formation, charge separation and charge transport which are essential in solar cell devices. The project will involve synthesis of core-shell quantum dot, Molecular Beam Epitaxy (MBE) growth, device fabrication and processing, and characterization for the successful realization of novel solar cells.
30	Performance enhancement of solar water heater integrated with latent heat thermal storage system using nano-enhanced phase change materials.	University of Birmingham	Anna University	The main aims and objectives of joint proposal are : i. to reduce the green gas emission considerably through effective utilisation of solar energy for water heating application in various industrial sectors and buildings with an efficient storage system. ii. to understand the benefits of integration of latent heat storage system with flat plate/evacuated tube solar water heaters in various industrial and residential applications. iii. to use the nano enhanced phase change material (PCM) in thermal storage systems to alleviate existing problems encountered in PCM based storage systems. to develop a suitable design methodology for the selected solar water heaters integrated with nano-enhanced PCM based storage system.

S.No	Project Title	UK Lead Institution Name	India Lead Institution Name	Project Description
31	Electro-optical Properties of Magnetically Modulated Graphene	University of Bath	Indian Institute of Technology Delhi	The main objectives are:1)Fabrication of nanomagnets at the surface of graphene and 2D electron gases 2) Theoretical and experimental demonstration of magnetic confinement of charge carriers in graphene and high mobility electron transistors.3) Demonstration of transistor action in graphene Hall bars modulated by single and double magnetic barrier structures obtained by gating graphene with micro-magnets. Demonstration of the fundamental properties of transmission of Dirac fermions through magnetic potential barriers.4) Theoretical and experimental demonstration of the interactions of Dirac fermions with microwaves.
32	A comparative study of hierarchical materials for biomedical and lightweight applications: manufacture, characterisation and modelling	University of Southampton	Indian Institute of Technology Delhi	The main objective of the proposed research is to manufacture and model novel materials having porous architecture for biomedical implants and lightweight structural applications.
33	Intergroup Contact and Collective Action in Educational Settings in India	The Open University	Jamia Millia Islamia	The present project's chief aim is to investigate how intergroup contact and collective action tendencies interact in multiple group settings where individuals share a multiplicity of social identities i.e. among Muslims and Hindus in India. To this end, the project focuses on both positive and negative social encounters in an educational context where peaceful coexistence is supported institutionally. The project, thus, expands upon the existing literature by going beyond simple binary group situations and considers the relational aspect of intergroup relations in a multi-group settings.

DST UKIERI Thematic Partnerships 2013

S.No	Project Title	UK Lead Institution Name	India Lead Institution Name	Project Description
1	Plasmonics incorporated CZTS based solar cells	Loughborough University	Institute for Plasma Research, Gujarat	The aim is to develop a CZTS based solar cell and incorporate the plasmonic layers for higher efficiency and develop a bottom-up process to produce ordered silver nanoparticles arrays over large area for enhanced light trapping and to grow mechanism of various CZTS layers
2	Safety, Suitability and Clinical Effectiveness of Unicompartmental Knee Replacement in the Indian population	University of Oxford	All India Institute of Medical Sciences, Delhi	The purpose of the project is to establish the pattern of knee OA in Indian setting and to assess the suitability, safety and clinical effectiveness of UKR for managing end-stage knee OA in the Indian population for the transfer of technology to assess implant position
3	Development of domestic and -selective electro dialysis unit for community supply of desalinated potable water enriched with essential minerals	Queen's University	CSIR-Central Salt & marine Chemicals Research Institute, Gujrat	The aim of the project is to modify the ion-exchange membrane (IEM) by conducting polymer and develop the selective electro dialysis unit for producing nutritious ions (Ca ²⁺ , Mg ²⁺ , HCO ₃ ⁻ and SO ₄ ²⁻ etc) enriched desalinated water.
4	Micro/Nano fluidics for Health and diagnostics	Queen Mary University of London	CSIR-Central Electronics Engineering Research Institute, Rajasthan	The project aims to explore the possibility of developing an integrated microfluidic platform for health monitoring and diagnostic applications and to explore different technologies for the realization of microfluidic system components such as micropumps, reservoirs, filters, sensors, electrodes and mixers and Simulations for mixing applications, electrokinetic flow control using gate electrodes, FET (field effect transistor) based bio-sensing with fluidics integration
5	Multiple Carrier Generation in Fission Enhanced Polymer Solar Cells	University of Cambridge	Indian Institute of Science, Bangalore	In this project the aim is to develop and characterize singlet fission-enhanced organic solar cells. The future performance of conventional solar cells is constrained by the Shockley-Queisser efficiency limit, Substitution of polymers for nanocrystals would lead to easier fabrication and reduces toxicity, but requires polymers with efficient electron transport and suitable energy levels, which will be developed at IISc Bangalore

S.No	Project Title	UK Lead Institution Name	India Lead Institution Name	Project Description
6	Direct scaffolding with living cells for engineering 3D multi-cellular functional tissues	University College London	Indian Institute of Technology Kanpur	The major aim of the project is the development of novel nanocomposites together with exploration of nanomaterials in the area of tissue engineering and regenerative medicine and to measure the effects of varying voltage, needle size and configuration (single versus concentric) on fibre direction and dynamics, and the biomechanical properties of cellularised constructs prepared using cell electrospinning, the viability and behavior of different cell-types of interest:
7	Nanoscale Surface Engineering in Inorganic Hetero-structures with Enhancement Photocatalysts Activity for Sustainable Solar Hydrogen Production	University College London	Indian Institute of Technology Delhi	The project aims to develop low cost and high performance visible light active novel nano-catalysts for photoelectrochemical splitting of water for solar hydrogen production. The approach consists of layer-by-layer deposition of material combinations and surface modifications for achieving the desired characteristics.
8	Microneedle assisted transdermal delivery of antimigraine and antihypertensive drugs	Loughborough University	KVSR Sidhartha College Of Pharmaceutical Sciences, Vijayawada	The partnership proposal aims to develop microneedle systems for transdermal delivery of anti-migraine and anti-hypertensive drugs for better therapeutic efficacy. Hence, alternate route of administration, e.g., transdermally, is an ideal choice for these drugs
9	Smart Multi-Terminal DC-grids for autonomous Zero-Net Energy Buildings	Loughborough University	Indian Institute of Technology Mandi,	The main objective to enable the development of autonomous zero net energy building.
10	Study of the molecular basis of the choice between miRNA mediated translational suppression and RNA instability in neural cell types.	University of Leicester	CSIR-Institute of Genomics and Integrative Biology, Delhi	This proposal aims to address a lacuna in our understanding of the mechanism by which microRNAs regulate targets.
11	Understanding Pasteuria spore attachment for exploitation as a natural control agent of root-knot and cyst nematode crop pests	University of Hertfordshire	Indian Agricultural Research Institute, New Delhi	This project aims to focus on their interactions with the bacterial group of parasites closely related to Pasteuria penetrans which has potential as a biological control agent.

S.No	Project Title	UK Lead Institution Name	India Lead Institution Name	Project Description
12	To study the gelation mechanism of self-assembling peptide based new hydrogelators for the application of sustain release of drugs	University of Reading	Indian Association for the Cultivation of Science, Kolkata	The purpose of the project is to make peptide hydrogel based new biomaterials with greater enzymatic (present inside the human body) stability (due to the presence of naturally occurring, non-protein amino acid residues) compare to those of existing peptide hydrogel based biomaterials and to use these biomaterials for sustained release of cancer drugs and also to explore the in depth knowledge of hydrogel formation by different techniques.
13	Novel Biomaterials for localised drug delivery for bone regeneration	Queen's University	Indian Institute of Chemical Technology, Hyderabad	The main aim of the project is Design, development and delivery of bisphosphonate anchored / immobilized mesoporous silica materials for effective bone tissue repair and regeneration
14	Design and Prototype Development of an Active Matrix Sensor-Actuator User Interface for Social HealthCare	University of Cambridge	Indian Institute of Science, Bangalore	The project proposed involves the development of a large area sheet (flexible or rigid) with an array of pixels- with each pixel having a sensor, a circuit that takes information from the sensor, and an actuator that is driven by the circuit in response to the sensor input
15	Femtosecond laser-micromachined microfluidics, integrated Surface Enhanced Raman Scattering (SERS) sensors for point-of-care diagnostics	Heriot Watt University	Centre for Nano Science and Engineering, Indian Institute of Science Bangalore	The main objective of this proposed collaboration is to develop a novel platform for early disease detection and diagnosis.
16	Integrative In vitro and In silico Modelling of Arterial Mechanobiology for Health and Disease: UK-India Education and Research Initiative	University of Sheffield	Indian Institute of Science, Bangalore	This project brings together two leading experimental and computational AM research groups. This synergistic research collaboration will enable: (i) the establishment of a research collaboration between the INSIGNEO institute of in silico medicine (University of Sheffield) and the Indian Institute of Science; (ii) novel experimental and computational research on arterial mechanobiology; (iii) transfer of knowledge and expertise between institutes.
17	Development of solution processed CdTe@ZnTe core/shell nanocomposite plasmonic solar cells	Institute of Mechanical Process and Energy Engineering (IMPEE)	National Institute of Science & Technology, Odisha	The aim of the project is to develop low cost, high efficient solar cells that can facilitate widespread commercialization to address the world's energy and environmental challenges.

S.No	Project Title	UK Lead Institution Name	India Lead Institution Name	Project Description
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'	University of Bath	National Centre for Cell Sciences, Pune	The aim of the project is to develop methodologies for establishment of iPS cells from fibroblasts using nc RNA Ginir and Compare attributes of iPS generation achieved through nc RNA- Ginir with known cocktail of transcription factors like Oct4, Sox2, Klf-4 and c-myc.
19	Efficient Waste Water Treatment using Novel Catalysts	University College London	National Chemical Laboratory, Pune	This project aims to develop a treatment approach that can simultaneously remove multi-contaminants such as methaldehyde, synthetic colour and pathogens from water.
20	To evaluate the role of AMPK mediated signal transduction in models of chemotherapy induced peripheral neuropathy (CIPN) using pharmacological approaches.	Centre for Endocrinology & Diabetes, University of Manchester	National Institute of Pharmaceutical Education and Research, Hyderabad	This Project leads to enhanced axonal protein synthesis and activation of channel subunits responsible for excitatory neurotransmission in pain signaling pathways.
21	Graphene Assisted Low-cost Energy-efficient Solar cell (GALES)	The OPEN UNIVERSITY	National Institute of Technology Durgapur	The main of the project is to produce functionalised graphene nanosheets (FGNS)-based dye synthesised solar cells. This work identifies a new class of electro-catalysts with potential of low cost photovoltaic devices.both the partners propose a novel approach that opens new means to efficiently harvest energy by using a combination of chemical synthesis and atmospheric plasma functionalisation to achieve desired properties.
22	Developing topoisomerase targets for TB therapy	John Innes Centre	Indian Institute of Science, Bangalore	The project will involve knowledge and personnel exchange to capitalise on opportunities for developing gyrase and topo I as TB targets. Thus, the main aim of this proposal is to exploit and expand our current knowledge-base on these essential enzymes (TB gyrase and topo I) in order to develop them further as drug targets and to find new inhibitors that affect their function.
23	Identification and characterization of novel germline mutations causing pituitary disease.	Queen Mary University of London	Postgraduate Institute of Medical Education and Research, Chandigarh	To identify novel gene mutation causing pituitary adenoma and to perform in vitro functional studies on the identified mutations.

S.No	Project Title	UK Lead Institution Name	India Lead Institution Name	Project Description
24	The Energy Cube of the Future	University of Surrey	University of Hyderabad	This project will demonstrate an integrated, inexpensive allotropic carbon system-based “energy cube” solution, for organic photovoltaic (OPV) energy harvesting, nanotechnology-enabled energy storage, and its energy-efficient utilisation using nanomaterials throughout.
25	Development of Efficient low Cost Photovoltaic Solar Cells Based on the use of Tin Sulphide Absorber Layers	Northumbria University	Sri Venkaswara University, Tirupati	This aim will be achieved through study of deposit layers of SnS using thermal evaporation (UNN task) and using wet chemical processes, spray pyrolysis (SVU task) and to optimize the layers for PV solar energy conversion, deposit a range of Cd-free buffer layers e.g. ZnIn ₂ Se ₄ , ZnMgO and ZnS, and to optimize these materials for use as buffer layers in SnS based solar cells and to produce PV devices using the optimized layers and characterization of the devices with the aim of maximizing the solar conversion efficiency.
26	Climate-smartening Assam’s tea plantation landscapes: defining socio-ecological ‘safe spaces’ for future sustainability	University of Southampton	Tea Research Association, Assam	This research will investigate the nexus of livelihoods, climate change and agricultural practice to locate “safe spaces” for tea plantation landscapes in Assam, India.
27	Green Polymers for Waterborne Pathogen Detection and Treatment	Heriot-Watt University,	Thapar University, Patiala	The main aim of this project is to identify natural biopolymers (i.e. green) polymers for waterborne pathogen monitoring and treatment applications and to employ the high-throughput arrays systems for the identification of natural biopolymers which promote or prevent adhesion of waterborne protozoan pathogens.
28	A BCI Operated Hand Exoskeleton based Neurorehabilitation System for Movement Restoration in Paralysis	University of Ulster	Indian Institute of Technology Kanpur	Develop a lightweight three-finger exoskeleton with embedded sensors, capable of replicating human motion for physical practice. It will be controlled by users’ EMG and EEG signals in assist-as-needed mode and develop a novel brain-computer interface (BCI) that facilitates EMG and EEG for controlling the exoskeleton and provides visual neurofeedback to ensure focused physical and MI practices.
29	Collaborative scientific and mission definition studies and development of space plasma and planetary instrumentation for future space missions	University College London	Indian Space Research Organisation, Thiruvananthapuram	A collaborative study of an innovative mission concept involving a piggy back nano-satellite on-board future space and planetary missions of ISRO, ESA and the UK. Also identify related technology requirements for scientific payloads such as plasma analysers and for the nano-satellite.

S.No	Project Title	UK Lead Institution Name	India Lead Institution Name	Project Description
30	Multifunctional hybrid nanocomposites for the separation of toxic and microbial contaminants from water	University of Central Lancashire (UCLan)	Indian Association for the Cultivation of Science, Kolkata	The specific objective of the project is to exploit multifunctional hybrid nanocomposites for the removal of toxic (arsenic) and using the recently developed novel surface chemistry to tackle the bacterial contaminants such as Legionella, E-Coli , Shigella and Salmonella from water.
31	Sustainable Energy Production Through Biomass Gasification Integrated With Solar Thermal Conversion	University of Exeter	CSIR-Central Salt & Marine Chemicals Research Institute, Gujarat	The broad objective of this proposal is to develop a technology package for economic production of energy carrier through hydrogen gas from biomass integrated concentrating solar thermal system.
32	Water Security and Infrastructure Resilience under Climate Change	University of Exeter	Indian Institute of Science, Bangalore	Aims to improve the understanding and knowledge for managing water security and infrastructure resilience in a changing climate by investigating new methods and further developing the expertise at both institutions.
33	Morphological structuring of polymeric matrices as a novel approach for controlled drug release	University of Bradford	National Chemical Laboratory, Pune	To develop a detailed understanding of the effects of semicrystalline polymer morphology on the release of a bioactive agent from such polymer matrices and to share cross-disciplinary expertise, infrastructure and networks across the proposed complementary groups for the development of platform technologies.

Sector Skills Collaboration 2013

S.No	UK Lead Institution Name	Indian Lead Institution Name	Project Title	Project Description
1	Skills of Logistics, Milton Keynes	Confederation of Indian Industry, Chennai	Sharing best practice and opening up future partnerships in logistics skill development-India/UK collaboration.	This project will develop a key relationship which will support India SSC and UK counterparts by drawing on the experience of SFL-UK, CII will be well placed to create a SSC which will effectively develop National Occupational Standards, a Qualification reform and to develop activities around certification, accreditation and centres of excellence.
2	Lantra, Warwickshire	Rubber Skill Development Centre, New Delhi	Supporting innovation in understanding the labour market and occupational requirements of the Rubber producing and manufacturing sector in India	Development of integrated systems for skills management and occupational data significant benefits for the ongoing activities related to developing occupational standards, defining curricula and collecting information on skills gaps and shortages in the rubber plantation and manufacturing sectors increased levels of engagement with businesses in the sector impact on skills development within the workforce.
3	Lantra, Warwickshire	Agriculture Skill Council of India, Gurgaon	Promoting the take up of Occupational Standards in the Indian Agriculture Sector through developing a unique system for managing their development and review.	The project will help utilize the best practices of UK SSC for occupational standards development and utilization and suggest the model for Indian SSC in terms of occupational standards development and utilization. This will also create the opportunity to share such best practice with other Indian SSCs.
4	Skills for Health, Bristol	Healthcare Sector Skill Council, New Delhi	Development of Competency based Curriculum and Course Content aligned with Occupational Standards, developed by HSSC for Healthcare Job-Roles	The Healthcare Sector Skill Council wishes to accelerate the pace of development in Occupational Standards across all job roles, supported by building the capacity of Indian Health Care trainers to deliver high quality training which meets national standards. Furthermore, there are no benchmarks for Train-the-Trainers with regard to teaching methodologies. This has resulted in poor quality of allied health and paramedics professionals, leading to compromises in patient care, health and safety. This project will focus on these.

Institutional Capacity Building 2013

S.No	UK Lead Institution Name	Indian Lead Institution Name	Project Title	Project Description
1	Dudley College	Mahatma Gandhi International School Sheth Hirabhai Motilal Bhavan Mithakali, Ahmedabad	To establish Skill Based Teacher's Training documented and supported by Multi Media at MGIS	Through this project proposal MGIS will design and articulate Teacher's Training methodology which identifies dry areas of teaching such as science and sex education. All the teaching aids would be Multi Media based like - films and Documentaries implementing the vocational element of studies
2	Burton and South Derbyshire College	MAEER'S Maharashtra Institute of Technology, MIT - Academy of Skill Development – Pune	International Curriculum Development In Construction	This project will equip the workforce with construction vocational skill and employability skills, each individual will have Individual Learning Plan (ILP) to ensure that they gain vocational qualification and soft skills such as communication, interview techniques, application forms. Additional health and safety skills/qualification will also be offered that are required in the construction industry
3	City College Plymouth	Future Sharp Skills Limited, Mumbai	Hospitality Entrepreneurship Employability and Enterprise Partnership (HEEEP)	Project partners will share good practice regarding embedding employability, and entrepreneurial spirit, whilst ensuring that learners gain the best opportunity to enter Tourism and Hospitality sector. Through this project project partners will to increase quality measures, build a sustainable and relevant curriculum, meeting the needs of employers and to share good practice regarding new and inspiring teaching methodologies.
4	Bradford College	Kannur Government Polytechnic, Kerala	Skills Development in Garment Manufacture (SDGM)	The project is aimed to develop innovative approaches for employer engagement and develop technical and entrepreneurial skills for employment and progression purposes and to also work with leading fashion & textile companies in both regions on applications of the latest technology for commercial products.
5	Pearson Education Ltd	MART Advance Training Institute, Noida	Creation of Vocational Trainers in rural India	The broad aim of this project is that Pearson will work with MART to build capabilities through curriculum and academic framework design, content development and delivery of programs, facilitate collaborations and connect with the larger international community. The overarching aim of the project is to introduce vocational qualifications for trainers in rural India

S.No	UK Lead Institution Name	Indian Lead Institution Name	Project Title	Project Description
6	West College Scotland	National Accreditation Board for Education and Training (NABET), Quality Council of India (QCI), Delhi	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)	The objective of the project is to create a local capacity of qualified and trained master trainers for Government Industrial Training Institutes in line with International Standards. SQA Certified Master Trainers will be utilized for training of faculties, students etc. in the identified 5 sectors. 5 identified sectors are – Retail, Construction, Food Processing, Healthcare and Telecom
7	Colleges Northern Ireland	TeamLease Skills University, Bangalore	Mechatronics Curriculum and Faculty Development for Greater Employability and Enterprise among Formal and Informal Sector Workforces	This project will see Colleges NI and Team Lease work together to benchmark, review and re-engineer Mechatronics curriculum and training methodologies which are relevant for the needs of industry in the India
8	Belfast Metropolitan College	Bombay Chamber of Commerce & Industry, Mumbai	Building Organisational Efficiencies for Small and Medium Enterprises (SMEs)	The project will improve organisational efficiencies by developing effective and efficient business and operational processes which will enhance business and financial performance. These processes will be integrated and embedded through the development and implementation of series of workshops and master classes utilising a business process manual. This will be further enhanced by the development of a training module specifically focused on marketing and supply chain management.
9	Hackney Community College	Mehr Chand Polytechnic College, Jalandhar	Community College for Skills Development in Punjab.	The main focus of this project is to provide thorough practical training and skill knowledge to the intended staff group. A Faculty exchange and training program between India and UK will be the key towards development of intellectual capital, promoting knowledge and effective management and staff skills.
10	Edinburgh College	Government Women's Polytechnic College, Bhopal	Scottish Textiles, Indian Textiles - Collaborative Hub (STITCH)	The aim is to expand and enhance the Textile and Fashion Curriculum through training of staff and students by UK and Indian experts; Create new delivery materials in the form of 'you-tube' style video demonstrations and e-booklets. Offer training, networking and web based marketing opportunities to local industry and retail and facilitate the development of micro businesses

S.No	UK Lead Institution Name	Indian Lead Institution Name	Project Title	Project Description
11	University of East Anglia	Institute of Nursing Sciences, Belgaum, Karnataka	Enhancing midwifery and neonatal care through capacity building of midwifery lecturers	The project will involve enhancing the maternal and neonatal educational provision in Belgaum, India whilst developing research in the arena of women and child health in both institutions. The project will also aim to develop UK midwifery and nursing education by giving students the tools to understand and engage in global responsibilities for health.
12	NESCOT ,Epsom, Surrey	Govt.Polytechnic College Palakkad, Kerala	Pedagogical Strategies in Skill Development	The project will focus on Pedagogical strategies in skill development. It will look into ways to develop strategies to enhance student skills by inspiring and engaging students both inside and outside the classroom.
13	Glasgow Kelvin College	Ludhiana Polytechnic College, Punjab	The delivery of UK TVET qualifications in the Punjab, India.	The primary aim of this project is to work with Indian colleges to build their capacity to deliver internationally recognised qualifications alongside their existing local qualifications. The project will undertake pilot work on the introduction of a UK (Scottish Qualifications Authority) Higher National Certificate into Indian colleges. This will involve staff development for the Indian faculty, sharing of curriculum materials and establishment of SQA assessment and quality assurance processes.
14	Highbury College	Larsen & Toubro Limited Construction Skills Training Institute, Tamil Nadu	Institutional strengthening and building capacity to deliver holistic vocational programs within the Construction Sector in India	The partnership will focus on: Skill standards, Training curriculum, Training the trainers and create master trainers, Training pathways and progression plan, Introduction of new tools, technology and facilities on campus, Introduction of eLearning and technology-aided blended learning pedagogy at CSTI, Apprenticeships and accreditation.
15	Bournville College of Further Education	Confederation Of Indian Industry, New Delhi	Capacity Building for Entrepreneurship Development for Marginalised Sections of India	The programme aims to help entrepreneurs succeed by filling this gap and mentoring them through robust programme for 100 entrepreneurs from marginalized sections by inculcating leadership skills and creating platforms for networking and Liaoning with relevant target customers.
16	Exeter College	BigSpring Pvt. Ltd., Mumbai	Beyond Borders - A Transnational Approach to Skills Training	The proposed project aims to develop and pilot a range of parallel and integrated vocational and English skills development programmes that will be used by trainees in both the UK and India.
17	Superact UK CIC	Don Bosco Tech Society, New Delhi	Developing employability and personal effectiveness amongst women in India through team and individual study using the performing arts.	Developing employability and personal effectiveness amongst unemployed women in India through team and individual study using the performing arts

S.No	UK Lead Institution Name	Indian Lead Institution Name	Project Title	Project Description
18	Bradford College	Lucknow Excellence Cluster, UP	Enhancing Employability Skills for SME's in the Automotive Sector.	The project aims on building & improving the craftsmanship, technical, communication, behavioural and managerial skills of workforce in order to improve competency and capability of enterprise. It aims to develop curriculum related to these training. It also aims to produce highly skilled trainers/teachers using latest pedagogical methods and equipped to deliver industry relevant training that enhances employability and enterprise capability.
19	Worktree, Milton Keynes	Gram Tarang Employability Training Services Pvt Ltd , Orissa	Work Tarang Job Readiness Partnership	The project brings together two partners with the same goal to assist young people, without the advantage of quality and higher education, to succeed in the job market. Through this partnership, the two organisations will meet their respective goals through a mix of exposure visits, product testing and development, and training of trainers.
20	Rural Innovation Centre Royal Agricultural University	National Skills Foundation of India, Gurgaon	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	The project will suggest the methodology in line with UK Agricultural Training Group Model for the Indian Agriculture Sector. In India, agriculture is much diversified and a large number of organisations are working on various training models. This gives an added advantage to the Indian Agriculture Sector for exploring the opportunity of adopting the Agricultural Training Group Model, by exploring UK best practices simultaneously
21	NOCN	All India Management Association, New Delhi	Creation of a Management and General Skills SSC	This project aims to work with key stakeholders such as existing SSC's, Confederation of Indian Industry (CII) and Federation of Indian chambers of Commerce and Industry (FICCI) to establish AIMA as the Sector Skills Council for Management and General skills (including employability skills) to underpin the economic goals and ambitions of India.
22	University of Bath	Government Polytechnic, Mayem – Bicholim, Goa	Development of structural concrete with the help of plastic waste as partial replacement for sand	The proposal looks to utilise these waste plastics as a replacement for up to 10% of the sand in concrete, with a small effect on compressive strengths. This has the dual benefits of using a waste product in a new way while reducing the damaging mining of sand from riverbeds (the indiscriminate mining of which is banned in most states). In addition, studies on workability, durability and crack control will be undertaken by considering the utilisation of chemical admixtures as well as plastics.

Partners

UKIERI is being supported by a large number of stakeholders in the UK and India. It is an example of a successful partnership between a large number of stakeholders who are supporting the programme through funding and providing knowledge support in the implementation of the programme. The programme has been successful in garnering support from various regulatory authorities and government ministries and organizations which has undoubtedly raised the stature and depth of the initiative.

A description of the strategic objectives of these partners who support the programme is provided below:

1. Department of Business, Innovation and Skills: BIS aims to engage with international partners and develop the skills of people to carry out world class research and thrive in a global economy.
2. Foreign and Commonwealth Office: FCO supports the delivery of the UK government's international education objectives and work towards promoting UK as the partner of choice for education.
3. British Council: The British Council aims to work towards strengthening the international dimension of UK's work in education and engage with government representatives, policy makers, students and young people world-wide.
4. Welsh Government: The Welsh Government aims to promote its objectives in research and



innovation, economic, social and personal development and skill training.

5. Department for Employment and Learning: The Department promotes learning and skills, to prepare people for work and to support the economy. The objective includes promotion of economic, social and personal development through high quality learning, research and skills training and to help people into employment and promote good employment practices.
6. Scottish Government: The Scottish Government is the devolved Government for Scotland and focuses government and public services on creating a more successful country, with opportunities for all of Scotland to flourish, through increasing sustainable economic growth.
7. Ministry of Human Resource Development: MHRD is the Department of Higher Education of the Government of India and is responsible for laying down the national policy on education and overseeing its implementation. It is responsible for planned development

of university & higher education, technical education and international cooperation in the field of education and granting of scholarships to the deserving students.

8. University Grants Commission: The UGC has the unique distinction of being the only grant-giving agency in India which has been vested with two responsibilities: that of providing funds and that of coordination, determination and maintenance of standards in institutions of higher education. The UGC's mandate includes: Promoting and coordinating university education, Determining and maintaining standards of teaching, examination and research in universities, Framing regulations on minimum standards of education and serving as a vital link between the Union and state governments and institutions of higher learning.
9. Universities UK: Universities UK represents UK universities and some higher education colleges. Universities UK works to promote and support the UK's universities and to spread good practice throughout the higher education sector. Universities UK brings together the leaders of UK universities to discuss and debate current and future higher education issues, and to represent and campaign on their views to the Government, business, media and beyond.
10. Department of Science and Technology: Department of Science & Technology has the objective of promoting new areas of Science & Technology and to play the role of a nodal department for organizing, coordinating and promoting S&T activities in the country.
11. All India Council for Technical Education: AICTE was set-up in November 1945 as a national level Apex Advisory Body to conduct survey on the facilities on technical education and to promote development in the country in a coordinated and integrated manner. AICTE is vested with statutory authority for planning, formulation and maintenance of norms and standards, quality assurance through accreditation, funding in priority areas, monitoring and evaluation, maintaining parity of certification and awards and ensuring coordinated and integrated



development and management of technical education in the country.

12. National Skill Development Corporation: NSDC aims to promote skill development by catalyzing creation of large, quality, for –profit vocational institutions. It provided viability gap funding to build scalable for profit vocational training initiatives. Its mandate is also to enable support systems such as quality assurance, information systems and train the trainer academies either directly or through partnerships.
13. Ministry of Labour and Employment: The Directorate General of Employment & Training (DGE&T) in Ministry of Labour is the apex organization for development and coordination at National level for the programmes relating to vocational training including Women's Vocational Training and Employment Services. DGE&T also operates Vocational Training Schemes in some of the specialised areas through field institutes under its direct control. Development of these programmes at national level, particularly in the area concerning common policies, common standards and procedures', training of instructors and trade testing is the responsibility of the DGE&T.
14. WIPRO Limited: At the India UK CEO Forum discussion held in July 2011, it was agreed that a work placement pilot program focusing on the IT Sector will be pursued and executed in joint collaboration between Wipro and UKIERI. UKIERI partnered with Wipro Limited under the enhancing mobility strand activity to Delivery "Global Education Internship Programme". The aim of the Graduate Internship scheme is to equip the next generation of graduates in the UK with relevant skills that will increase their employability in the IT industry.

Media

UKIERI Update - June 2013
UKIERI UK-India Education and Research Initiative

हैकनी लंडन की टीम ने किया रचंद पॉलीटेक्निक कालेज का दौरा



हैकनी (यूके) के नीचे बाराह हैकनी लंडन के साथ एशमैन और रचंद पॉलीटेक्निक कालेज का दौरा किया।

Desi beats



UK students dressed in Indian attire celebrate the last day of their exchange programme at British Council in New Delhi on Friday.

INDIAN EXPRESS

Magazi Entertainment Sport Cricket Business Cities

Top News Nation World States Cities Business Cricket Sport Entertainment Magazi
Books Telangana Edex Food Health FIFA 2014 Editorial Tech Education Lifestyle

UK to Focus on Skill Training'

CHENNAI: The UK's focus of technical training shifted from below, said British Deputy High Commissioner Bharat Joshi. The UK India Education Partnership Development organised by the The UK India Education Partnership Development organised by the All India Council for Technical Education (AICTE) and the UK government.

UKIERI UK-India Education and Research Initiative

Strategic Partnerships
Economic Change
Impact and Outreach
Capacity Building
Mutuality
Quality
Student Mobility
Skill Development
Development
Inclusion
Innovation
Development
Skill Development

UKIERI UK-India Education and Research Initiative

UKIERI UK-India Education and Research Initiative

THE HINDU

COIMBATORE, December 18, 2013

UK. India Education to hold training programme for government school teachers

Government school teachers to be trained in the future

Aston University helps businesses become more economically friendly



Other news
Train delays minimized
Aston receives Business Gold Award
Aston KIP Associate
Thought people say glasses
Think International
Breakfast on Language
Aston University could help manufacturing
Student named ch...

ool to train 5k teachers in
 onal School gets a grant for 2014 to work with UK partner on a project to establish skill

Trainers from Dudley College,
 polytechnics and state technical departments

This week at a workshop at the National Institute of Technical
 Training and Research (NITTTR) in Chennai, trainers from Dudley
 College, UK will train senior administrators and teachers from
 polytechnics and state technical departments in 'improving institutional
 performance'. The workshop, from 2-4 June, is part of a national project
 supported by the Government of India targeting 250 Principals, Directors
 and institutional heads who are involved in administering technical
 training across India.



British Deputy
 High Commission
 Chennai



MGIS WORKING
 MODULES PREPARED
 FOR STRAND 3 UKIERI
 Making connections about the skeletal system, muscular system, nervous system and heart together
 Creating cover learning environment by designing our classroom

AhmedabadMirror.com

Quick News: DI TO POLITICIANS: REFRAIN FROM PSYCHOLOGICAL ANALYSIS OF RA
 SciTech

Weak monsoon led to Indus Valley civilisation collapse

An abrupt weakening of the summer monsoon in north-west India may have led to the collapse of the mighty Indus Valley civilisation over 4,000 years ago, according to a new study. A research team from the University of Cambridge has been studying the impact of climate change on the ancient civilisation and found that the resulting drought during the monsoon falls within the radiocarbon age range for the collapse of Indus de-urbanisation.



Findings are published by the Geological Society of America as part of a larger project funded by the UK-India Education and Research Initiative (UKIERI)

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UKIERI Update July-September 2013

of UKIERI and till date over 900 UK undergraduate institutions have participated in the programme. Over 10,000 students have completed 6 years of study in India for these weeks in 2013.



किया मेहर बंद पॉलीटेक्निक कोलेज
 इसके अंतर्गत अब फेकल्टी सदस्य आने के लिए विजिट करीगे तथा जनवरी में यू.के. से दोबारा डेली एशमेंट ने बताया मुख्य तौर

ANNUAL REPORT 2012

Bridge course after 1-year UK degree

BASANT KUMAR MOHANTY
 New Delhi, Nov. 12: Students with one-year UK master's degrees will have to complete a bridge course of six months in India to make their qualifications valid for further academic pursuits or government jobs here.

The master's degree is awarded by Indian institutions after a two-year course. The University Grants Commission (UGC), India's higher education regulator, has finalised a module for the six-month bridge course, the move coming ahead of British Prime Minister David Cameron's India visit this week.

The bridge course will be offered at select universities to enable students cover the required course content for validating their foreign degrees, sources in the HRD ministry and the UGC said.

India does not recognise one-year degrees. Nearly 25,000 Indian students are currently pursuing master's in the UK, most of them one-year courses. Such students face difficulties in getting teaching jobs in government colleges when they return home.

The UK authorities have long demanded equivalence for the one-year degrees in India. The UK Higher Education International Unit and the UK-India Education and Research Initiative had a study conducted on the issue.

hteducation
 'Our hearts beat for India'

Aanchal Bedi, Hindustan Times
 New Delhi, September 19, 2013

Even at a time when India is struggling with women's safety issues and the economic slowdown, the country hasn't failed to attract students from abroad. As a part of UKIERI's Study India Programme (SIP) 2013, 200 UK undergraduates from over 60 UK institutions visited Delhi and Mumbai to participate in a three-week programme managed by IndoGenius and the University of Delhi.

Booker, founder of IndoGenius, says, "The sole objective of the programme is to enhance mobility. It offers students an opportunity to experience new culture and understand different perspectives. Whatever sphere of the special study, you have to go through it. More than 4,000 students will increase to 10,000 in the next few years."

education news

The balancing act
 At a time when parents are constantly looking for opportunities for their children to pass on their passion. Here are some who juggle studies with work.

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Dr. Sundarajan
 The need for medium and small enterprises (SMEs) of Tiruchi to adapt to global conditions was stressed by S. Sundarajan, Director, National Institute of Technology (NIT), while addressing a management capacity development programme here on Friday.

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University of East London with TISS make research study on Super 30

Oct 24, 2013, 02:00PM IST
 Tags: University of East London | United Kingdom | Tata Institute of Social Sciences | Super 30 | British Council | Anand Kumar

PATNA: A joint project by University of East London and TISS on Super 30, an institute that helps underprivileged children crack IIT exam, has found how education could be used for social transition.

Super 30 run by noted mathematician Anand Kumar has the distinction of preparing children from poor section of society by offering free education, lodging and food to help them compete in IIT.



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