F.No.19-1/2017-TS.VII
Government of India
Ministry of Human Resource Development
Department of Higher Education

Shastri Bhawan, New Delhi.
Dated 13th February, 2017

To,

1. **The Secretaries of Technical Education of all States/UTs.**
2. **The Directors of Technical Education of all States/UTs.**
3. **The Member Secretary, AICTE.**
4. **The Vice-Chancellors of all Central Universities/ State Universities/Deemed Universities.**
5. **The Directors of all IITs/ IIMs/ NITIE-Mumbai.**
6. **The Directors of all NITs.**
7. **The Directors of all NITTTR's/ IISc-Bangalore/ NIFFT-Ranchi/ NERIST-Itanagar/ SLIET-Longowal/ CIT-Kokrajhar/ GKCIET-Malda.**
8. **CEPT University, Gujarat.**
9. **School of Planning and Architecture, Delhi.**
10. **Institute of Development Studies, University of Mysore, Mysore.**
11. **Forest Research Institute, Dehradun.**
12. **Indian Institute of Forest Management, Bhopal.**
13. **Indian Institute of Remote Sensing, Indian Space Research Organization, Dehradun.**
14. **National Remote Sensing Center, Indian Space Research Organization, Hyderabad.**
15. **Indira Gandhi Institute of Development Research, Mumbai.**
16. **National Institute of Disaster Management (NIDM), Delhi.**
17. **Tata Institute of Social Science (TISS), Mumbai.**

Subject: - Short term Indian faculty secondment to Asian Institute of Technology (AIT), Bangkok by the Government of India for a period of upto 16 weeks - Invitation of nominations for semester commencing August - 2017 & January - 2018 - regarding.

Sir/Madam,

I am directed to say that Asian Institute of Technology (AIT), Bangkok is an autonomous International post graduate Institute providing advanced education in engineering, science and allied fields. The AIT's academic year has two terms which begin in August and January. The Government of India provides support to the AIT by way of faculty secondment for a period of upto 16 weeks in selected areas of specialization for above two terms. The areas under consideration for faculty secondment for August, 2017 and January, 2018 are enclosed.

2. The entire cost of secondment of Indian faculty to AIT, Bangkok including cost of air passages both ways and maintenance etc. is borne by the Government of India. Normally the period of secondment is upto 16 weeks each to coincide with an academic term of AIT, Bangkok. The seconded faculty are entitled to draw their pay plus special pay, if any, and allowances as admissible to them in India during their deputation period. Their pay and allowances etc. are drawn and disbursed in India in Indian Currency. The seconded faculty are entitled to daily allowance in Bangkok as admissible vide Ministry of External Affairs orders in

this regard issued from time to time. The exact amount of daily allowance in Bangkok depends on the rate determined by the Ministry of External Affairs for the particular period. Besides this, AIT also provides accommodation in the campus at subsidized rates subject to availability. The seconded faculty is entitled to travel by air by economy class in shortest route from the nearest port of embarkation in India to Bangkok and will also be entitled to excess baggage as per instructions issued by Government of India. The above-mentioned terms and conditions of secondment are tentative and subject to approval by the Ministry of Finance at the time of secondment. The salary in respect of faculty during the period of deputation will be met by their respective State Government/ Institution themselves. In addition, the leave salary, contribution of Provident Fund/General Provident Fund and Pension Contribution etc. in respect of the faculty deputed will be met by the respective State Govt./ Institution themselves.

3. You are requested to kindly give wide publicity of this scheme in your institution especially in the Departments covering the areas in which faculty secondment is being planned for the year 2017-2018. The nominee should have a doctorate degree in the relevant area, postgraduate teaching experience relevant to the course description indicated against the area and substantial research publications in the area to his credit. Nominations may kindly be sent in respect of only those candidates, who could be spared, in the event of their selection, for undertaking the proposed assignment at AIT, Bangkok for a period upto 16 weeks for the terms as indicated against each course. Since it is the endeavour of the Government to send best faculty from India to project the right kind of images at the international level, you are requested to kindly forward only those nominations that would be meeting the above mentioned requirement. The Selection Committee gives its recommendations to the Government on the basis of the bio-data of the nominees placed before it. Therefore, five copies of the bio-data of the faculty recommended for consideration of the Selection Committee may be sent to this Ministry in the enclosed format as per **Annexure-1**. The above details relating to short term faculty secondment to AIT, Bangkok may also be seen at M/o HRD website **www.mhrd.gov.in**

4. The last date for receipt of nomination in this Ministry is **15th April, 2017**. The nominations are required in **five copies** duly screened and recommended by the Head of the Institution/ Competent State Govt. Authority and to be sent to the following address:

D.K. Paliwal
Deputy Educational Adviser(T)
Department of Higher Education,
Ministry of Human Resource Development
Room No. 209-C
Shastri Bhawan,
New Delhi -110001.

Yours faithfully,

Encl: as above

D.K. Paliwal

(D.K. Paliwal)
Deputy Educational Adviser(T)
Tele: 011-23384235

Copy to: CMIS Unit, Ministry of Human Resource Development with request to put up the above notice on MHRD website for wide publicity.

ANNEXURE - 1

BIO-DATA		
(To be submitted in 5 copies)		
AREA OF ASSIGNMENT FOR WHICH NOMINATION SENT		
	COURSE CODE	
	COURSE TITLE	
	APPLIED FOR SEMESTER	
1.	Name (Expanded initials)	
2.	Date and Place of Birth	
3.	Nationality	
4.	Present Post held with complete address of the Institute.	
5.	Present Postal Address Tel. No. /Fax No./E-Mail/Mobile No.	
6.	Educational Qualifications (starts from latest)	

Degree/ Diploma	Division/ Grade	Year	Subjects Taken	Name of University/ Institute

7.	Professional Experience (starts from latest)			
Address of the Office/ Organization/ Institution	Post held	Duration		Specific experience: P.G. Teaching/Research Industrial
		From (date)	To (date)	

8.	Details of Published work: Books, Articles, Monographs, Papers (If the Space below is insufficient please give full particulars on a separate sheet of paper)

Cont...

9.	Brief of subjects taught	
10.	Summary of recent/ current projects undertaken	
11.	Current Interests and Assignments	
12.	(a) Visits abroad:	

Country Visited	Duration of Visit		Purpose of visit
	From (date)	To (date)	

(b) Previous assignment with AIT, if any:

Term	Course taught	Seconded by Government of India or directly hired by AIT

12.	Any other relevant information:	
		Signature of Applicant.
13.	Remarks of Head of the Institution:	
		Signature of the Head of the Institution with Office seal.

AIT SCHOOL REQUESTS FOR INDIAN FACULTY SHORT-TERM SECONDMENTS
For August 2017 and January 2018 semesters

FOR AUGUST 2017 SEMESTER

I. School of Engineering and Technology (August 2017 Semester)

For August 2017 Semester, School of Engineering and Technology would like to request for the seconded faculty for the following 10 courses:

Course Code, Title, Credits	Course Description
AT72.01 Deterministic Optimization Model, 3 (3-0)	Deterministic optimization modeling, software packages, linear programming, integer programming and combinatorial optimization, dynamic programming, network flow, nonlinear programming.
AT72.04 Engineering Economy,3(3-0)	Basic concepts in engineering economy, economic evaluation of alternatives, replacement analysis, accounting concepts, depreciation and taxation, product costing and cost estimation, risk and uncertainty, deterministic capital budgeting models.
AT73.02 Advanced Manufacturing Processes, 3 (3-0)	Structural properties of engineering materials, subtractive manufacturing process, unconventional manufacturing processes, additive manufacturing processes, formative manufacturing processes, rapid prototyping systems, environmental aspects.
AT73.17 Advanced Material Science for Design & Manufacturing 3 (3-0)	Metals, non-ferrous metals, composite materials and processes, plastics, coatings, finishes and adhesives, testing of materials, deterioration of materials, economics of material selection, case studies of material selection.
AT81.02 Digital Integrated Circuit Design, 3 (2-3)	Digital systems design process and CAD tools, combinational and sequential circuits design and implementation, input/ output design and clock generation, design of memory, hardware description language (HDL), rapid prototyping and implementation of digital systems, memory system design and test, testing and design for testability (DFT).
AT81.05 Analog Integrated Circuit Design, 3 (2-3)	IC technology, device modeling and layout, basic analog sub circuits, noise analysis and modeling, basic operational amplifier design, advanced operational amplifiers, comparators, integrated filters, data converters.
AT77.15 Satellite Communications, 3 (3-0)	Satellite communications, orbital aspects of earth satellites, satellite link design, propagation on satellite-earth paths and its influence on link design, modulation, multiplexing and multiple access techniques in satellite communications, satellite networking, spacecraft and earth station technology, performance and reliability of satellite communications.
AT77.05 Teletraffic Engineering, 3 (3-0)	Traffic flows in networks, classical loss systems, delay systems, traffic measurements, multi-dimensional traffic, laboratory sessions including traffic behavior and characterization, dimensioning of full availability loss systems, delay systems, limited availability, overflow systems and ATM traffic models.
AT77.10 Cellular Network Planning, 3 (2-3)	Radio network planning, cellular network planning approaches, propagation analysis and coverage planning, frequency

	allocation, cellular network planning tools and laboratory sessions including cellular network planning using NPS/X Tool and cellular Network Measurement with the NMS/X.
AT77.16 Digital Signal Processing, 3 (2-3)	Discrete-time signals and systems, frequency domain representation of discrete-time signals and systems, sampling of continuous-time signals, the z-transform, transform analysis of linear time invariant systems, the discrete Fourier transform, implementation of discrete-time systems, design of digital filters, digital signal processors, digital signal processing, applications in mobile and wireless communications and laboratory sessions.

II. School of Environment, Resources and Development (August 2017 Semester)

For August 2017 Semester, School of Environment, Resources and Development would like to request for the seconded faculty for the following 6 courses:

Course Code, Title, Credits	Course Description
ED76.19 Introduction to Natural Resources Economics, 1 (1-0)	Important issues in natural resource economics, natural resources and the economy, consumer's choice and demand function, supplier's choice and supply curve, value in economics, introduction to cost-benefit analysis, allocation of natural resources.
ED76.05 Integrated Land Use Management Systems, 3 (3-0)	Integrated analysis of land use management, properties of integrated land use systems, ILUS for sustainable development.
ED76.14 Society and Natural Resource Management, 3 (3-0)	Social and economic dimensions of natural resources management, paradigms and theoretical approaches to the management of common pool natural resources, issues related to the use of natural resources, natural resource management approaches, sustainability of natural resource management.
ED79.14 Governance and Urban Management, 3 (3-0)	Concepts of governance and urban management, urban governance models, selected issues and domains of urban management.
ED72.51 Environmental policy and Management of Energy Systems, 3 (3-0)	Energy systems and the environment, environmental quality, emissions and the energy systems, technical and non-technical options for emissions mitigation in energy systems.
ED71.37 Wetland Ecosystem Management, 2 (2-0)	Introduction to Wetland, wetland services and human impacts on wetlands, the conceptual models and wetland ecosystem assessment, wetland management.

III. School of Management (August 2017 Semester)

For August 2017 Semester, School of Management would like to request for the seconded faculty for the following 1 course:

Course Code, Title, Credits	Course Description
SM60.22 Managerial Economics, 2 (2-0)	Theory of firms, business ethics, optimizing techniques, new management tools, demand analysis, demand estimation, production theory and estimation, cost theory estimation, market structure, perfect competition, monopoly, oligopoly, game theory, pricing regulation, risk analysis.

FOR JANUARY 2018 SEMESTER

IV. School of Engineering and Technology (January 2018 Semester)

For January 2018 Semester, School of Engineering and Technology would like to request for the seconded faculty for the following 3 courses:

Course Title	Course Description
AT72.09 Inventory and Logistics Management, 3 (3-0)	Review of inventory system, traditional inventory models for independent demand, dependent demand system – material requirements planning (MRP), advanced production/ inventory models, introduction to logistics and supply chain management, logistics and supply chain processes.
AT81.11 Mixed Signal IC, 3 (2-3)	Mixed signal IC design, design of switched capacitor circuits, design of data converter circuits, design of phase locked loop and frequency synthesizers.
AT77.09 Error Control Coding, 3 (3-0)	Block codes and their implementation, performance of block codes, convolutional codes, trellis coded modulation, turbo and LDPC codes, space times codes, cooperative coding, networking coding.

V. School of Environment, Resources and Development (January 2018 Semester)

For January 2018 Semester, School of Environment, Resources and Development would like to request for the seconded faculty for the following 6 courses:

Course Code, Title, Credits	Course Description
ED76.20 Natural Resource Economics, 2 (2-0)	Important issues in natural resource economics, value of natural resources and its use in policy-making, alloeation of natural resources, application to specific natural resources problems, economics of externalities.
IN84.06 Disaster Response and Emergency Management, 3 (3-0)	The nature of emergencies and disasters, emergency management, identifying and analyzing risk, handling and managing emergencies, disaster and emergency management systems (DEMS), emergency response and recovery, developing strategy, crisis management.
ED79.04 Environmental Science and Technology for Decision Makers, 3 (3-0)	Introduction to environmental science, engineering and technology, ecosystem and understanding of its carrying capacity, cycle of elements in environment, environmental protection vs. development, urban ecology, environmental resources and population growth, environmental effects and sustainable development, parameters used in environmental science, decision making on pollution, pollution standards, health effects, risk model and assessment and setting priority for action, effects of urban pollution (air, noise, odor, water, wastewater, land, solid waste and toxic waste), and treatment technologies, the roles of energy, transport, industry and the environment.
ED72.13 Development and Evaluation of Energy Projects, 3 (2-3)	Introduction to energy projects, project preparation and development, cost concepts and financial calculations, economic evaluation of energy projects, financial evaluation of projects, environmental issues in energy projects,

	financing of energy projects, risk analysis in project development, evaluation of public sector projects, key emerging energy project development issues.
ED71.09 Coastal & Inland Fisheries Resource Management, 2 (2-0)	The state of world fishery, fishery resources and stocks, fish population dynamics, fishery stock assessment, sustainable fishery yield, sustainable fishery management, emerging fisheries management approaches.
ED70.05 Design and Testing of Agricultural Equipment, 3 (2-3)	Design principles, types of design, system constraints, stages of development and testing, standardization, ergonomics, materials used for agricultural equipment and their properties, other design considerations, manufacturing production models of farm machinery, introduction to computer aided design, testing field machines and equipment and certification, design project and presentations.