

F.No.19-1/2016-TS.VII  
Government of India  
Ministry of Human Resource Development  
Department of Higher Education

Shastri Bhawan, New Delhi,  
Dated 24 February, 2016

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

**Subject: - Short term 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 - 2016 & January - 2017 - 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, 2016 and January, 2017 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.

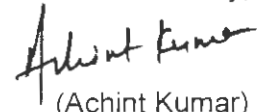
3. You are requested to kindly give wide publicity of this scheme in your institution especially in the Departments covering the areas in which faculty secondment is being planned for the year 2016-2017. The nominee should have a doctorate degree in the relevant area, postgraduate teaching experience 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/oHRD website [www.mhrd.gov.in](http://www.mhrd.gov.in)

4. The last date for receipt of nomination in this Ministry is **15<sup>th</sup> April, 2016**. 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:

Shri Achint Kumar  
Under Secretary(TS-VII)  
Department of Higher Education,  
Ministry of Human Resource Development  
Room No. 405-C  
Shastri Bhawan,  
New Delhi-110001.

Encl: as above

Yours faithfully,



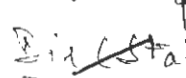
(Achint Kumar)

Under Secretary to the Govt. of India

Tele: 011-23384582

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

Very kindly see.

  
24.02.16

Sanjay  
25.02.2016

CMIS(OP)

BIO-DATA					
(To be submitted in 5 copies)					
<b>AREA OF ASSIGNMENT FOR WHICH NOMINATION SENT</b>					
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 or Institution	Post held	Duration		Specific experience: P.G. Teaching/Research Industrial
			From	To	
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)				

Contd...

9.	Summary of recent/current projects undertaken		
10.	Current Interests and Assignments		
11.	(a) Visits abroad:		
	Country Visited	Duration of Visit	Purpose of visit
		From To	
	(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 2016 and January 2017 semesters**

**FOR AUGUST 2016 SEMESTER**

**I. School of Engineering and Technology (August 2016 Semester)**

<b>Course Code, Title, Credits</b>	<b>Course Description</b>
AT72.01 Deterministic Optimization Models, 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)	Ferrous 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.
AT76.14 Digital Photogrammetry, 2 (1-3)	Basic photogrammetry concept, procedure, processing task and its result through project work, error analysis with various methods, softwares.
AT77.05 Teletraffic Engineering, 3 (2.5-1.5)	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.
AT77.15 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.
AT77.16 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 2016 Semester)

Course Code, Title, Credits	Course Description
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.

## III. School of Management (August 2016 Semester)

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.
SM80.16 Project Management, 3 (3-0)	Project concepts and approaches, success criteria and factors, project design and appraisal, project organization and stakeholder management, risk analysis, scope definition and management, project planning and scheduling, monitoring and control methods, earned value project management, cost estimates, budgeting and financial control of projects, conflict resolution and team building, problem solving in project environment, project termination, application of computers in project management.
SM80.20 Managing and Implementing Electronic and Mobile Commerce, 3 (3-0)	Electronic commerce, mobile commerce, payment gateway, privacy, online security.

**FOR JANUARY 2017 SEMESTER**

**IV. School of Engineering and Technology (January 2017 Semester)**

<b>Course Title</b>	<b>Course Description</b>
AT77.07 Cellular Mobile Systems, 3 (3-0)	Background and history of cellular mobile radio, the mobile radio environment, diversity schemes and combining techniques, modulation techniques, receiver structures and equalizers, cochannel and adjacent channel interference, cellular traffic, mobile systems like multiple access techniques, coding for error detection and correction, second-generation digital wireless systems, performance analysis: admission control and handoffs, 2.5G/3G mobile wireless systems, 3.5G/4G mobile systems.
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.
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.
AT76.15 Microwave Remote Sensing, 2 (2-0)	Fundamental knowledge and theories of microwave remote sensing, interaction of electromagnetic radiation with matter, active and microwave remote sensing.

**V. School of Environment, Resources and Development (January 2017 Semester)**

<b>Course Code, Title, Credits</b>	<b>Course Description</b>
ED71.09 Coastal & Inland Fisheries Management, 2 (2-0)	Basic stock assessment procedures, population dynamics, fishery models, integrated approaches for fisheries management, ecosystem approach to fisheries management, community based fishery management, sustainable management of inland and coastal fisheries of Asia.
ED71.9018 Selected Topic: Health Management in Aquaculture, 2 (1-3) <i>(for 50% teaching)</i>	Fish Pathology, infectious diseases, epizootiology, diagnostic techniques, and therapeutics, immunology of finfish and shellfish, microbiological and biotechnological tools, aquatic pharmacology, advances in biosecurity and disease surveillance.
ED76.13 Natural Resources Degradation and Conservation, 3 (3-0)	Natural resources degradation, human impacts on natural resources (types, causes and impacts), soil erosion, tools for natural resource degradation assessment and monitoring, degradation assessment method, conservation concepts and measures.
ED79.14 Governance and Urban Management, 3 (3-0)	Urban politics, governance theories, public management models, contextual and practical issues in urban

	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.

**VI. School of Management (January 2017 Semester)**

<b>Course Code, Title, Credits</b>	<b>Course Description</b>
SM60.52 Marketing Management, 2 (2-0)	Marketing strategies and plans, product strategy, creating customer value, customer-relationship management, building brand equity, designing and managing services, pricing strategy, marketing channels, marketing communication.
SM 80.08 International Marketing and Export Management, 3 (3-0)	Exporting, globalization of markets, standardization vs. regional responsiveness, market entry strategies, global market research, global product policy, global pricing, global advertisement.
SM80.29 International Economic, 3 (3-0)	Theory of international trade, law of comparative advantage, modern theory of international trade, offer curves, tariffs, other trade restrictions, economic integration, international trade and development, foreign exchange markets, balance of payments, price and income adjustment mechanism, adjustment policies, international monetary system.