F.No.19-4/2020-TS.VII
Government of India
Ministry of Human Resource Development
Department of Higher Education

Shastri Bhawan, New Delhi,
Dated 05th May, 2020

To,

1. **The Vice-Chancellors of all State Universities.**
2. **The Directors of all IITs/ NITIE-Mumbai.**
3. **The Directors of all NITs.**
4. **The Directors of all NIFFT-Ranchi/ NERIST-Itanagar/ SLIET-Longowal/ CIT-Kokrajhar/ GKCIET-Malda.**

Subject: - Short term Indian faculty secondment to Asian Institute of Technology (AIT), Bangkok by the Government of India for a period upto 16 weeks - Invitation of nominations for semester commencing August, 2020 & January, 2021 - regarding.

Sir/Madam,

I am directed to say that Asian Institute of Technology (AIT), Bangkok is an autonomous International 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 upto 16 weeks in selected areas of specialization for above two terms. The areas under consideration for faculty secondment for August, 2020 and January, 2021 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. The period of secondment is upto 16 weeks each to coincide with an academic term of AIT, Bangkok. The seconded faculty is 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 AIT Notice in your institution especially in the Departments covering the areas in which faculty secondment is being planned for the year 2020-2021. 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 **1st June, 2020**. It may be noted that the nominations are required in **five copies** duly recommended by the Head of the Institution/ Competent State Govt. Authority and to be sent to the following address:

The Under Secretary
Department of Higher Education,
Ministry of Human Resource Development
Room No.433, 'C' Wing
Shastri Bhawan,
New Delhi - 110001.

Yours faithfully,

Encl: as above

(Achint Kumar)
Under Secretary to the Govt. of India
Tele: 011-23070425

Copy to:-

The Web Master, CMIS Unit, MHRD with the request to host 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 (start 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 etc. (If the Space below is insufficient please give full particulars on a separate sheet of paper)

No. of Patents	No. of Awards/ Recognitions	No. of Ph.D guided (completed and in progress)	No. of publications (National & International)	No. of Books (published & under publication)	No. of Projects (completed & In progress	Details of Membership in Societies	Other details

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 2020 and January 2021 semesters

FOR AUGUST 2020 SEMESTER

I. School of Engineering and Technology (August 2020 Semester)

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.
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)	The course aims at providing basic photogrammetry concept, procedure, processing task and its result through project work. Error analysis is also considered and explained with various methods. Students will be trained through the software given in the lab.

II. School of Environment, Resources and Development (August 2020 Semester)

Course Code, Title, Credits	Course Description
ED70.03 Agricultural Systems Analysis, 3(3-0)	Agricultural systems with biological components interacting with social and economic elements are extremely complex in nature. This course is designed to introduce concepts and techniques of systems analysis in an agricultural context and to illustrate the value of holistic approach through a number of quite different case studies. The manager or the administrator of such a system constantly looks forward to those techniques or methods, which helps him in planning, scheduling and controlling the activities in the system. The course should help students in identifying rational ways to improve the efficiency of agricultural systems.
ED73.03 Bioprocess Technology, 3(3-0)	To provide the students with current concepts and the basic principles for the quantitative analysis of biotechnology and its applications in the food. feed environmental and pharmaceutical industries.
ED78.01 Environmental Chemistry & Laboratory, 3(2-3)	The course is designed to prepare environmental engineers and scientists for analytical work in basic and applied research and problem solving in a wide range of environments comprising water, soil, and air. It provides the fundamental and practical understanding of the physico-chemical and biochemical processes underlying water and wastewater treatment, as well

	as air pollution and air quality control.
ED80.07 Marketing Management and Trade Policies in Agribusiness, 3 (3-0)	This course provides students with marketing management skills and exposes them to issues of trade policies in agribusiness. It also examines how the issues of trade policies and marketing can be managed effectively.

III. School of Management (August 2020 Semester)

Course Code, Title, Credits	Course Description
SMXX.XXXX Fin-Tech, 1.5 *For August 2020 term, August to September*	Preference will be given to those faculty with practical experience who can provide experiential learning relating to topical application of the subject rather than textbook or overly theoretical approaches. The subject of Fintech relates to how in the past decade emerging technologies have driven an unprecedented transformation of finance around the world. This process is happening more rapidly in China and Asia than anywhere else. This course is designed to explore Fin-Tech fundamentals and help make sense of this wave of change as it happens. New players such as start-ups and technology firms are challenging traditional players in finance, bringing democratization, inclusion and disruption. Companies engaged in social media, e-commerce, and telecommunications, as well as, companies and start-ups with large customer data pools, creative energies, and technical capacities, have brought competition to the existing financial infrastructure and are remaking the industry. These transformations have not only created challenges but also unprecedented opportunities, building synergies with new business and regulatory models, particularly in emerging markets and developing countries. To meet these changes, 21st-century professionals and students must be equipped with up-to-date knowledge of the industry and its incredible evolution. The major areas of Fin-Tech this course focuses on includes Money, Payment and Emerging Technologies, Digital Finance and Alternative Finance, Fin-Tech Regulation and RegTech, Data and Security, and the Future of Data Driven Finance, as well as, the core technologies driving Fin-Tech including Block chain, AI and Big Data. These will set the stage for understanding the Fin-Tech landscape and ecosystem and grappling with the potential direction of future change.
SMXX.XXXX Wealth Management, 1.5 *For October 2020 term, October to November*	Preference will be given to those faculty with practical experience who can provide experiential learning relating to topical application of the subject rather than textbook or overly theoretical approaches. This is a case-based mini-course intended to provide an in-depth conceptual and practical guide to domestic and international wealth management for high net worth individuals and families. Global market for wealth management has grown rapidly in recent decades and is likely to continue to be one of

	the most dynamic dimensions of the financial services sector, even as growth shifts location to new areas of wealth accumulation, notably Asia-Pacific, parts of Latin America, Russia and the Middle East.

FOR JANUARY 2021 SEMESTER

III. School of Engineering and Technology (January 2021 Semester)

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.
AT77.9009 Discrete-Time Statistical Signal Processing 3 (3-0)	The objective of this course is to provide the students with a comprehensive understanding of discrete time statistical signal processing techniques with emphasis on applications in Wireless Communications.

IV. School of Environment, Resources and Development (January 2021 Semester)

Course Code, Title, Credits	Course Description
ED70.12 Precision Agriculture, 3 (3-0)	Precision agriculture is a new concept in production. The course aims to educate students to deal with the comprehensive approach to crop production planning and implementation. It deals with three key elements: information and advanced agricultural technologies, and management.
ED71.50 Health Management in Aquaculture, 2 (1-3)	Increasing intensity and output from aquaculture in response to the growing demand for fish as food also brings in a number of challenges, particularly concerned with diseases. Proper understanding of the pathogenic organisms and their effective control measures is essential to overcome the adverse impact of aquatic animal diseases on aquaculture production. This course is intended for students to understand the basic principles of aquatic health management, and to impart knowledge on preventive and remedial measures for maintaining healthy aquaculture stocks. The course will also introduce the concepts of biosecurity in farm management and the significance of quarantine measures that govern the transboundary movement of aquatic animals.
ED73.9005 Molecular Nutrition, Food Toxicology and Health, 3(3-0)	To provide knowledge on the molecular interactions of components and their effects on processing, formation of toxic compounds and nutritional attributes in complex food systems and their effects on human health.
ED80.05 Agri-Food Supply Chain	This course provides broad knowledge of various

Management, 3 (3-0)	management issues related to food supply chains, including farm level production to post-harvest management. The course discusses functioning of each sector of food supply chains and how these sectors can be coordinated and integrated to ensure availability of safe food.

IV. School of Management (January 2021 Semester)

Course Code, Title, Credits	Course Description
SMXX.XXXX Quantitative Risk Analytics and Intelligence, 1.5 *For January 2021 term, January to February*	Preference will be given to those faculty with practical experience who can provide experiential learning relating to topical application of the subject rather than textbook or overly theoretical approaches. Specifically, this course involves the use of quantitative models, statistical methods, numerical algorithms, and software to address the challenging and important issues associated with big financial data. It includes: • Credit Risk Analytics • Operational Risk Management • Regulatory compliance • Capital planning and forecasting • Fraud Analytics, and • Market Risk Analytics
SMXX.XXXX Alternatives Investing (including real estate), 1.5 *For January 2021 term, January to February*	Preference will be given to those faculty with practical experience who can provide experiential learning relating to topical application of the subject rather than textbook or overly theoretical approaches. In the era of significant market turmoil investors look beyond traditional investment vehicles such as bonds and shares. The purpose of this course is to explore the world of alternative investments such as investments on hedge funds, private equity/venture capital funds, real estate, and commodities, either directly or through funds of funds. We want to see what the return-risk characteristics of alternative investments are, what attributes to their appeal, how to understand related technical publications, and how to construct a portfolio using them.
SMXX.XXXX Entrepreneurial Finance, 1.5 *For March 2020 term, March to April*	Preference will be given to those faculty with practical experience who can provide experiential learning relating to topical application of the subject rather than textbook or overly theoretical approaches. The course focuses on: • How to valuate entrepreneurial ventures—including high-growth startups—using Excel spreadsheet models. • Discerning between the tradeoffs of different financing strategies: loan investments, venture capital, angel investing, and crowdfunding. • How to manage a startup's financing strategy, where you will learn how to build capitalization tables (or "cap

	tables") in Excel. Cap tables will help you explore different financing strategies for your startup company and determine which financing decisions are best for your entrepreneurial venture. • Analysis of block chain technologies, where you will learn how to identify opportunities to disrupt and innovate business models using block chain as well as avoid poorly executed applications of block chain to business.
SMXX.XXXX Econometrics, 1.5 *For March 2020 term, March to April*	This course covers the statistical tools needed to understand empirical economic research and to plan and execute independent research projects. Topics include statistical inference, regression, generalized least squares, instrumental variables, simultaneous equations models, and evaluation of government policies and programs.