

Subject: Rajya Sabha Unstarred Question No. 512 to be replied on 07.02.2019 regarding Centres for Artificial Intelligence.

From: registrar@iitmandi.ac.in

Date: Tue, February 5, 2019 5:03 pm

To: "Arun Kumar Karn HRD/Informatics Division" <akkarn.edu@nic.in>, "KUNDAN NATH, Under Secretary (IITs)" <knath.edu@nic.in>

Cc: registrar@iitmandi.ac.in, "Registrar Office, IIT Mandi" <registraroffice@iitmandi.ac.in>

Priority: Normal

Dear Mr. Nath,

Kindly refer your email dated 4th February, 2019 regarding Rajya Sabha Unstarred Question No. 512 to be replied on 07.02.2019 regarding Centres for Artificial Intelligence. In this regard the relevant information w.r.t. IIT Mandi is as following:

a) Whether the Institutions of higher education like IITs have set up centres for Artificial intelligence in view of increasing use of Artificial Intelligence (AI) technology in the world:

reply: Yes.

b) if so, the details thereof:

reply: IIT Mandi has two research groups: MANAS (Multimedia Analytics, Networks and Systems) and Applied Cognitive Science Lab which have 12 faculty + 60 students/researchers working on applications of machine learning and cognitive modeling to practical problems. These groups have about Rs. 12 crores funding from govt and industry in India and US.

c) the courses proposed to be offered in these institutes; and

reply: The courses compulsory for all B.Tech students(1st , 2nd and 3rd semester):

- 1 Data Sciences-I (Introduction to Computing and data Science)
- 2 Data Sciences-II (Probability and Statistic in Data Science)
- 3 Data Science-III(Data Science and Machine Learning (ML))

The other courses offered in the Institutes

S.No.	Course No.	Course Name	Credits	Teaching From date
1	CS 305	Artificial Intelligence		3 2011
2	CS 669	Pattern Recognition	4	2012
3	CS 670	Kernel Methods for Pattern Analysis		4
	2014			
4	CS 660	Data Mining and Decision Making		4
	2015			
5	EE 511	Computer Vision	4	2015
6	CS 671	Deep Learning and Applications		4
	2017			
7	CS 592	Selected Topics in Artificial Intelligence: Constraint Satisfaction Problems		2
	2016			

d) whether any collaboration is being made with global leaders in

Dear Vishal,

Please send the following as our item-wise response.

(a), (b) IIT Mandi has two research groups: MANAS (Multimedia Analytics, Networks and Systems) and Applied Cognitive Science Lab which have 12 faculty + 60 students/researchers working on applications of machine learning and cognitive modeling to practical problems. These groups have about Rs. 12 crores funding from govt and industry in India and US.

(c) Introduction to Data Sciences taught to all B7ech students in 1st and 2nd year. Elective courses on AI, machine learning, cognitive decision making taught to UG and PG students.

(d) Faculty have collaborations with experts in other IITs, Singapore, and in the USA.

Regards,
-Samar-

Rajya Sabha Unstarred Question 07-02-2019

(a) Whether the institutions of higher education like IITs have set up centres for Artificial Intelligence in view of increasing use of Artificial Intelligence (AI) technology in the world:

• Ans: In IIT Mandi, we do not have any center of Artificial Intelligence (AI). However, several faculty do research work on various applications of Artificial Intelligence (AI).

(a) If so, the details thereof:

• -NA-

(a) The courses proposed to be offered in these institutes: and

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Data Science - I (Introduction to computing and data science), Data Science - II (Probability and Statistic in Data Science), Data Science - III (Data Science and Machine Learning (ML)). This series of courses are introduced as an institute level compulsory courses for the BTech 1st, 2nd and 3rd semester students respectively. This courses is just introduced during Aug-Nov 2018 semester to introduce data science and ML to all the streams of BTech. Intension is to make all the stream BTech students aware of data science as there is huge amount of data need to be handled in every discipline.

(b) Whether any collaboration is being made with global leaders in Artificial Intelligence and if so, the details thereof?

IIT Mandi
Indian Institute of Technology Mandi

- Several Faculty of IIT Mandi have been collaborating with researchers in Artificial Intelligence from Carnegie Mellon University, Pittsburgh, USA and New Jersey Institute of Technology, New York.

Centres for Artificial Intelligence

512. DR. T. SUBBARAMI REDDY:
Will the Minister of HUMAN RESOURCE
DEVELOPMENT be pleased to state:

(a) whether the institutions of higher education like IITs have set up centres for Artificial Intelligence in view of increasing use of Artificial Intelligence (AI) technology in the world;

(b) if so, the details thereof;

(c) the courses proposed to be offered in these institutes; and

(d) whether any collaboration is being made with global leaders in Artificial Intelligence and if so, the details thereof? //

<https://webmail.iitmandi.ac.in/cpsess58546>

Artificial Intelligence and if so, the details thereof?

reply: Faculty have collaborations with experts in other IITs, Singapore, and in the USA.

Regards,

Vishal S Chauhan

Dr. Vishal S Chauhan
Registrar i/c
Indian Institute of Technology Mandi
Kamand, Mandi (H.P.) Pin 175005
Phone: 01905 267015
Fax: 01905 267075

Subject: Rajya Sabha Unstarred Question No. 512 to be replied on 07.02.2019 regarding Centres for Artificial Intelligence.
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ci) the courses proposed to be offered in these institutes; and

reply: The courses compulsory for all B.Tech students(1st, 2nd and 3rd semester):

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	2016			

d) whether any collaboration is being made with global leaders in

Priority: Normal

Dear Mr. Nath,

Kindly refer your email dated 06.02.2019 regarding LSSQ No. 101 for 11.2.2019. In this context, the relevant information w.r.t. IIT Mandi is as following:

(a) the percentage of reservation for the people from Other Backward Caste (OBC), Scheduled Caste (SC) and Scheduled Tribe (ST) communities in jobs in the Ministry and its subordinate offices, central universities and other higher educational/technical/management institutes during the last three years;

reply: The percentage of reservation in posts during the last three years is as per reservation roster maintained in IIT Mandi.

b) the number of vacant posts of OBC, SC and ST communities in the Ministry and its subordinate offices, central universities and other educational/technical/management institutes during the above period;

reply: attached in excel sheet.

c) the number-wise, post-wise, pay scale and company-wise details of the people engaged through outsourcing;

reply:

1) Presently M/s MS Services Pvt. Ltd Baddi (HP) is providing services for Housekeeping and Waste Management on minimum wages based on the measurement of affected area. They have deployed 130 workers corresponding to the area given.

2) Name of Outsourced Agency : M/s MS Services Pvt. Ltd.SCO-1, FF, HIMUDA Complex, Sai Road Baddi Dist-Solan, H.P Pin-173205

Nature of job : Security Services at IIT Mandi

No. of Personnel employed : Security Supervisor - 03
Asst. Security Supervisor - 07
Security Guards (Male) - 112
Security Guards (Female) - 20

Pay Scale : As per latest notification of basic minimum wages prescribed for "Watch & Ward" duties by Ministry of Labour & Employment, Govt. of India.

3) IIT Mandi has hired manpower services through outsource agency based on minimum wages based on skilled/semi skilled/un-skilled manpower requirements. The details are as under:

1.	Office Assistant / Asst. Off. Executive	: 37	
2.	Medical Services		: 10
3.	Labour/Helper/Plumber/ Electrician/	: 74	
4.	JE Electrical/ Horticulture		: 2
5.	Attendant/ Multiple Assistant	: 25	

Lab Staff	:	16
Care Taker Staff	:	9
Library Staff	:	5
Sports Staff	:	5
Drivers	:	3
Total	:	186

(d) whether the students belonging to OBC, SC and ST communities are 42 under-performing academically in Delhi University as they do not have a good command over English language; and

reply: No such case in IIT Mandi

(e) if so, the details thereof along with the reaction of the Government in this regard?

reply: N.A.

Regards,
Vishal S Chauhan

Dr. Vishal S Chauhan
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