



तंत्र शिक्षण संचालनालय, महाराष्ट्र राज्य,

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क्रमांक :- २/एनजीसी/मान्यता/२०१९ / १५२८

दिनांक : 20 NOV 2019

प्रति,

संचालक / प्राचार्य,

सर्व शासकीय, शासन अनुदानित व

विनाअनुदानित व्यावसायिक अभ्यासक्रमाच्या संस्था,

विषय: तंत्रज्ञानाच्या उदयोन्मुख क्षेत्रात [Emerging Areas] नवीन पदवी अभ्यासक्रमाबाबत...

संदर्भ : अखिल भारतीय तंत्र शिक्षण परिषद, नवी दिल्ली यांचे पत्र क्र. अेआयसीटीई/अेबी /डब्ल्युआर /ईअेटी/२०१९-२०, दि. १३.११.२०१९

अखिल भारतीय तंत्र शिक्षण परिषद, नवी दिल्ली याचेमार्फत तंत्रज्ञानाच्या आर्टिफिशियल इंटेलिजेंस, इंटरनेट ऑफ थिंग्स (आईओटी), रोबोटिक्स, साइबर सिक््योरिटी, ब्लॉक चेन, क्वांटम इंजीनियरिंग, डेटा साइंसेज / बिग डेटा & अॅनालिटिक्स, ३ डी प्रिंटिंग & डिजाइन व अॅग्युमेंटेड रिअॅलिटी / व्हर्चअल रिअॅलिटी या ९ उदयोन्मुख तथा उभरत्या क्षेत्रात (Emerging Areas) पदवी अभ्यासक्रमाची नांवे सुचविण्याकरीता कार्यगट [Working Group] नियुक्त करण्यात आला. सदर कार्यगटाच्या शिफारशीच्या अनुषंगाने अखिल भारतीय तंत्र शिक्षण परिषद, नवी दिल्ली यांनी "Artificial Intelligence & Data Science (AI & DS)" हा पदवी अभ्यासक्रम नव्याने सुरु करण्याबाबत मान्यता दिल्याचे संदर्भान पत्रान्वये कळविले आहे. यास्तव संदर्भाधीन पत्र माहिती व पुढील उचित कार्यवाहीसाठी सोबत जोडले आहे. सदर पत्रात नमूद केल्यानुसार अॅप्रुव्हल प्रोसेस हँडबुक मधील अटी व शर्ती, भौतिक तथा पायाभूत सोयीसुविधा, अध्यापक व इतर आवश्यक बाबींची पूर्तता करणा-या व सदर अभ्यासक्रम सुरु करण्यास ईच्छुक असलेल्या संस्थानी पुढील उचित कार्यवाही करण्यात यावी. तसेच संस्थानी प्रस्तूत अभ्यासक्रम सुरु करण्यास परिषदेस सादर केलेल्या अर्जाची माहिती या संचालनालयास दि. १५ जानेवारी, २०२० पर्यंत उपलब्ध करुन द्यावी.

(डॉ. अभय वाघ)

संचालक

तंत्र शिक्षण, महाराष्ट्र राज्य, मुंबई

प्रत,

सहसंचालक, तंत्र शिक्षण, विभागीय कार्यालय, मुंबई, पुणे, नाशिक, औरंगाबाद, अमरावती व नागपूर

त्यांना कळविण्यात येते की, संचालनालयाच्या अधिपत्याखालील आपल्या कार्यक्षेत्रात येणा-या संस्थाना सदर पत्र आपले स्तरावरुन अग्रेषित करण्यात यावे.



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सत्यमेव जयते

अखिल भारतीय तकनीकी शिक्षा परिषद्
(भारत सरकार का एक सांविधिक निकाय)
(मानव संसाधन विकास मंत्रालय, भारत सरकार)
नेल्सन मंडेला मार्ग, वसंत कुंज, नई दिल्ली-110070

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
(A Statutory Body of the Govt. of India)
(Ministry of Human Resource Development, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

F. No. AICTE/AB/WR/EAT/2019-20

Date: 13.11.2019

To,

The Vice Chancellors,
All Affiliating Universities of AICTE approved Technical Institutions
The Secretaries of Higher & Technical Education Deptt. & Directors of
Technical Education of all States / UTs.

**Subject: Introduction of new Under Graduate Courses in Emerging Areas of
Technology.**

Sir,

1. The matter regarding Introduction of new Under Graduate courses in Emerging Areas of Technology by AICTE was discussed in EC meeting of AICTE held on 17.09.2019 vide Agenda Item No. 128.01.03. In this connection, a short term and medium term perspective plan prepared by Shri. B.V.R. Mohan Reddy, Chairman BOG-IIT-Hyderabad, was discussed and approved in 120th EC meeting on 27.12.2018. As per the report, it was suggested that ICT specifically digital technology be made part of the curricula for every stream of Engineering. The nine emerging areas identified are Artificial Intelligence, Internet of Things (IOT), Robotics, Cyber Security, Block Chain, Quantum Engineering, Data Sciences/ Big Data & Analytics, 3D Printing & Design and Augmented reality/virtual reality. Accordingly, a Working Group was constituted by AICTE to suggest nomenclature/specialization of new UG courses in emerging areas of technology.

2. The Executive Committee considered the recommendations of the Working Group as proposed and approved the following:

(i) AICTE shall approve the introduction of B. Tech. Programme in Artificial Intelligence & Data Science (AI&DS) only. However, only those institutions who can ensure quality should be allowed, for which AICTE can identify certain criterion. To start with institutes with NBA accreditation or by closing some existing courses as per APH 2019-20 shall be permitted.

(ii) Courses in emerging areas can be allowed as specialization from the same department. The minimum credits for such courses should be in the range of 16-18 and this can be mentioned in the degree, as specialization in that particular area. For example, doing extra credits for Robotics in Mechanical Engineering can earn B. Tech. (Hons) Mechanical Engineering with specialization in Robotics.

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urgently

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- (iii) Minor program in emerging areas may be allowed wherein a student of another department can take courses (with minimum credits in the range of 16-18) and get a degree with minor from another department.)
- (iv) EC approved that AICTE may consider to fix seats / intake for generic programs rather than for specializations.

Further, the EC suggested that a course in an emerging area can be attached to a generic discipline in engineering. The said course attached to the Computer Science Engineering discipline will be treated as a specialization in the emerging area. The said course attached to a conventional discipline of engineering may be treated as a minor programme in emerging area. The EC also suggested that the emerging area courses may also be offered in PG Engineering programmes.

The Model curriculum in the emerging areas shall be provided by the Council.

4. **In view of the above AICTE has decided to fix the intake only for generic programmes.** You are therefore, requested to take necessary steps to allocate the intake for each specialization to be offered by the Institutions within the approved intake without hampering the generic course, if an institution is having the required infrastructure facilities, faculty and other requirements as per APH. You are also requested to share the details of the Institutions & the course(s) with specialization to be offered by 31st January, 2020.

Yours Sincerely,



(Prof. Rajive Kumar)
Member Secretary