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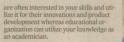
Multidimensional career opportunities for PhDs

MANY OPTIONS Besides academics, a PhD opens up a plethora of opportunities in a host of sectors, writes Ravichandra M

G one are the days of staunch belief that PTND is a degree susful only to become university professor." Though academic positions in universities and colleges are first choice of PhD hold-ers, it is not the only option for current generation research aspirant. As emphasized by Prof. Pankaj Jalote, Senior Professor at Dept. of Computer Science and Engineering, ITT Kanpur in their web portal. Students interested to pursue research but not willing to take up academic/teaching positions should on thesitate to take up doctoral studies because of this reason alone. Today there are multiple career opportunities for re-searchers in Industry, Research & Devel-opment taks and Ailled fields. Here is an attempt to pur in nurshell pre-requisites, still sets and career opportu-nities for PhD scholars. "PhD- (Doctor O Philosophy) as we all how is highest degree given in any disci-pline. It is a degree that adds two dimen-

know is highest degree given in any disci-pline. It is a degree that adds two dimen-

sions to your profile- "Skills" & "Knowl-edge". Employer (Industry/ R & D Labs)



The Life-Cycle

The Life-Cycle Most of the universities have following process for earning a PhD degree, it starts with an Entrance examination, qualified candidates face an interview on successful completion have to take up course work examination (where sub-jects in your area of research are dealt in depth), on succeeding in course work exams, candidates have to define their problem by extensive literature study and most universities expect you to de-fend it among a panel of researchers termed as comprehensive viva. On suc-cessful completion candidates can start actual research work publish papers and actual research work publish papers and experimental results and finally come up with dissertation to be defended in front of an expert panel. The whole process should take up 3 to 5 years. Ma-jority of Universities offer PhD pro-



grammes in both Full-time and Part-time basis. Most important prerequi-sites for part-time PhD scholars is get-ting Principal Investigator/ Guide/Supervisors consent to guide you. According to many professors and veter-an researchers, Pursuing PhD does not remains actrong intellisment though

require extreme intelligence, though brilliance helps in speedier progress. tience, perseverance, hard work, and motivation are keys to success. One more misconception among student community is that inventing a new pr uct alone gets you doctorate, but the

truth is not only formulating a new prob-lem and solving it, also solving existing problems with a different approach, improvising existing solutions can also lead to award of degree. Plethora of Career Opportunities

Conce can find out multiple avenues for researchers apart from academic posi-tions. Some of them are as follows: Entrepreneurs: There is always encour-agement for young entrepreneurs from policy makers/Governments to start up new firms and as doctorate you can start

torate and is interesting avenue for PhD

graduates. Pharmaceutical/Information Tech-nology/Bio Technology/Finance/Law Industries to name a few utilize the serv-ices of researchers in their organizations for product development and service de-olowment.

less of researchers in their organizations for product development and service deployment.
Sales: Organizations involved in developing technical complex products rely on sales managers capable of understanding technically complicated gadgets and Doctoral candidates in respective areas have better chances of joining such work force.
There are plenty of blogs and other Internet resources available that provide fair idea on career options that one can explore with doctorate as a fruitful educational accomplishment. PhD can culminate with himmense satisfaction of prefixing the two characters "Dr." with your name with significant monetary gains too. If even after doctorate your hirts for education doesn't subside, no problems continue with Post-Doctoral studies in some reputed national or international university!

university! Word of Caution: PhD has value provid-ed you obtain it from a reputed universi-ty (verify the credentials of awarding body before starting) as there are plenty of PhD selling schools around us which violate regulatory body rules.

your own organization and realize inno-vative dreams come true. • Writing, By the time you obtain doctor-net, your writing skills would have honed tremendously, a boon in disguise to pur-ue a career in media that either publish broadcast technology news as a technical cesaercher. Pervide financial expert opin-ions in a Economy channels, Medical and pharmacy related expertise in health channels, Legal expertise and Education-al expert opinions to harme a few. * Venture Capitalist: You do not want to ten put hone single organization but can have a passion to help new start-ups to realize the dreams in the role of ven-ture capitalist. • Consultant Consultancy is second love for most Doctorates, after teaching, It is his profession that provides flexibility and freedom for Researchers to share their ideas equally with Industry and Uni- **vensites**. on and realize inno-

their ideas equally wata analysis versities. **Public Sector Service:** Doctorates are always in demand for making public pol-icy decisions in Governments as technical advisors. Also if your patriotic intuitions drive you for defense and military, re-search opportunities in defense organi-zations should be interesting option. **Bechnology Transfer:** It is a process of transferring patents from research labs to industries for market production. This transition process desires skills of a Doe-

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से अधिक विद्या

संस्थानों में पिछले

कर चुके हैं

आत्महत्या

आईआईटी

पांच वर्ष में

00

उच्च शिक्षण संस्थानों में हो रही आत्महत्याएं

रे और बच्चे की चमक में कोई फर्क नहीं है। दोनों की चमक हीरे की तरह इस दुनिया को रोशन करती है। जिस तरह आसमान से तारा टटने पर उसकी चमक कम होती है, वैसे ही एक बच्चे की मौत दुनिया को उसकी चमक से महरूम कर देती है। कॅरियर को लेकर हो रही देश के मेधावी छात्रों की मौतें भी ऐसी ही हैं। हर साल आईआईटी और एम्स जैसे उच्च शिक्षण संस्थानों में प्रवेश के लिए प्रयासरत और 03 प्रवेश पा चुके कुछ हीरे तनाव में ऐसा कर रहे हैं। इससे पहले विद्यार्थियों ने पिछले कि किसी तरह के तनाव या दबाव से ऐसा ही कोई और जिंदगी साल आत्महत्या की से निराश हो, मौत को गले लगाने की सोचे, आप उसे गले लगा राष्ट्रीय आयुर्विज्ञान लीजिए। थोड़ा-सा ध्यान देकर उसे बचा लीजिए। कैसे हो संस्थान (एम्स) सकता है यह सब, इसी पर पढ़िए आज का सण्डे जैकेट... दिल्ली में

क्या हैं कारण और निवारण अधिक समय तक दबाव की स्थिति नहीं रखें

क्या युवाओं में मानसिक दबाव बढ़ रहा है ? उच्च शिक्षा में प्रतिस्पर्धा के चलते मानसिक

समस्या बढ़ जाती हैं। एकाग्रता में कमी आती है। मांसपेशियों में खिचाव व सिरदर्द की शिकायत, घबराहट, चिड्चिड़ापन, उदासी और काम में अरुचि। इससे बचने नशे की शुरुआत करने लगते हैं। कोई युवा या युवती इस दौर से गुजर रही है, इसकी पहचान कैसे हो सकती है?

मानसिक तनाव से याददाशत कम हो रही है। हीन भावना। भूलने की शिकायत। अनिष्ट की आशंका रहने लगती है। स्ट्रेस तीन कैटेगिरी में दिखाई देते हैं। मानसिक, शारीरिक और सामाजिक। बुरे सपने। सिर में भारीपन या सिरदर्द की शिकायत, सांस लेने मे घुटन, पेट में गड़बड़ी, पेट टाइट होना। हाथ-पैरों में पट टाइट होगा। होव-परा म झनझनाहट या सूनापन। ऐसा युवा या युवती परिजनों से कटे रहने लगते हैं और छोटी-छोटी बातों पर झगडने लगते हैं। पेरेन्टस पर इल्जाम लगाने लगते हैं। पढ़ाई से अरुचि होने लगती है।

अवसाद या डिप्रेशन से प्रभावित हो

सकता है। डिप्रेशन सिर्फ मूड में

एक अस्थाई परिवर्तन या कमजोरी की निशानी ही नहीं है। यह कई

भावनात्मक, शारीरिक और व्यवहार लक्षणों के साथ वास्तविक

चिकित्सकीय हालत है।

क्या हैं कारण..

विद्यार्थी के थकान ज्यादा रहने लग जाती है। वे सामाजिक रूप से कट (जैसां कि डॉ. आलोक त्यागी ने योगेंद्र योगी को बताया)

डिप्रेशन को पहचानें और

ह र व्यक्ति जीवन में कई बार उदासी अनुभव करता है। कई लोग एक बार या ज्यादा लेकिन तरह के भाव अधिक समय तक

सरी या खालीपन, दो धिक समय के लिए मैं मन न लगना। विष्य के बारे में 5 विचार आना। अच्छा लगना व बहुत कम	परिवारिक इतिहास। मरितम्ब के रसायनों में असंतुलन के कारण। कठिम प्ररिश्वितियां, मसलन- उपेक्षा, तलाक, परिवारिक हिंसा, पैसे की तकतीफ।
कर काम नहीं कर पाना, रूति महसूस करना, इसूस करना।	किसी और बीमारी से लंबे समय से चसित होने से निराषा। बराब या नहीले पदार्थी का लगातार लम्बे समय तक सेवन।
क्या करे	स्वयं क्या करें
ि क्या करे ५ से अधिक बातचीत करें, ते सुनें। सैर-सपाटे या मनोरंजन की व्यवस्था	स्वय वया करे अपने समाह की योजना के लिए एक डायरी का उपयोग करें। जिससे क्या करना हैं, किस काम के वार्सव में आप अश्विक सक्षम हैं। वारसव में
5 से अधिक बातचीत करें, में सुनें। सैर-सपाटे या	अपने सप्ताह की योजना के लिए एक डायरी का उपयोग करें। जिससे क्या करना है, किस काम को करने में

(जैसा कि डॉ. अनिल तांबी ने विकास जैन को बताया)

अपनाएं। नहीं से दूर रहें।

दबाव बढ़ रहा है। जयपुर में ही एक मनोचिकित्सका के पास देश में होने वाली कुल आत्महत्याओं में युवाओं (15 से 29

वर्ष) की संख्या है

34 प्रतिशत

सिकनेस थी, गोली ने उसको दूर

हर रोज पांच-छह केस आते हैं। दबाव किस क्षेत्र में ज्यादा है ? मेडिकल और आईआईटी में कम्पीटिशन ज्यादा टफ है। एमबीबीएस में पिरामिड डीएम व

पीजी सीट कम हैं। एक तो एंट्रेस में दबाव बहुत ज्यादा और दूसरा मेडिकल इंटर्न को काम बहुत ज्यादा करना पड़ता है। पब्लिक डीलिंग भी सीखनी पड़ती है। आईआईटी में भी प्रवेश एवं कोर्स के दौरान और फिर जॉब प्लेसमेंट में प्रतिस्पर्द्धा बहुत बढ़ गई है।

इस दबाव का युवाओं और उनके परिजनों पर क्या प्रभाव पड़ रहा है ?

जाते हैं। नींद में समस्या शुरू हो जाती है। तनाव से पेट संबंधी

तुरन्त उपाय करें

छोटी और सीमित अवधि के लिए ऐसा अनुभव करते ही हैं। जब इस और बार-बार रहते हैं तब व्यक्ति

मुख्य लक्षण..

काम

जिंदर

अके

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ध्यान

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REPR

परि

उवास उसे ध फिल्म

करें।

खेल, धार्मि

अन्य रुचि

रुत्रेह और ।

व्यक्ति या ब

सकती है

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ार उदासा या खालापन, दा	पारवारक इल
से अधिक समय के लिए	मरितष्क के र
छाज में मन न लगना।	कारण।
ी व भविष्य के बारे में	कठिन परिस्थि
ाजनक विचार आना।	तलाक, पारिव
नापन अच्छा लगना व बहुत कम	तकलीफा
फरना।	किसी और बी
लगा कर काम नहीं कर पाना,	वासित होने से
तोर समृति महसूस करना,	श्वराब या नशी
वट महसूस करना।	लम्बे समय त
वार क्या करे	स्वयं क
। व्यक्ति से अधिक बातचीत करें,	अपने सप्ताह ।
यान से सुनें। सैर-सपाटे या	डायरी का उप
भ जैसे मनोरंजन की व्यवस्था	करना है, कि

अनशंसा की थी। अब उन अनुशंसाओं का बंग अब उन अनुशंसाओं का क्या हुआ, इसके बारे में मुझे जानकारी नहीं है। लेकिन अभी जो आत्महत्याएं हो रही हैं, वह दुर्भाग्यपूर्ण है, लेकिन हमें दोनों पहलुओं पर गौर करना होगा। यह कहना कि ज्यादा पढ़ने वाले और प्रतिभावान छात्र भी आत्महत्या कर रहे हैं, तो जो आईआईटी में पहुंचते हैं, वो सभी होशियार और

उन्हें भावनात्मक सहारा दें

डॉ. एम. आनंदकृष्णन,

चेयरमैन, आईआईटी-कानपुर अग इंआईटी और केंद्र सरकार से

अने। सहायता प्राप्त तकनीकी संस्थानों के छात्रों में बढ़ते तनाव

और आत्महत्याओं को रोकने के

मंत्रालय द्वारा एक टास्क फोर्स का

गठन किया गया था। इस टास्क

फोर्स ने छात्रों में आत्महत्या की प्रवृत्ति को रोकने के लिए एक

व्यापक रिपोर्ट के जरिए अनुशंसाएं पेश की थीं। टास्क फोर्स में प्रतिष्ठित

संस्थानों के पेशेवर लोग शामिल थे।

छात्र इससे गुजर रहे होते हैं, वह पढ़ाई के दौरान काफी व्यथित होते

हैं और उन हालात से उबर न पाने के कारण मौत को गले लगा लेते हैं।

दूसरी बड़ी वजह थी, हीनता

मानव संसाधन विकास

क्यों साथ छोड रहे

में बहुत सारे 'पॉपुलर' लड़के होते हैं, लेकिन आईआईटी की डिग्री लेने हमारा बडा मकसद यही था कि छात्र हमार्य बढ़ा मकसर वहां था कि छात्र आत्महत्या क्यों कर रहे हैं? इस रिपोर्ट में हमने कुछ कारण गिताए। पहला बड़ा करण था, व्यक्तिगत त्रासदी, यानी घर-परिवार में किसी की मौत या हादसा। जो के लिए सभी को 'प्रॉपर ग्रेइस' लेनी पड़ती हैं। अगर वे ऐसा नहीं करते, तो फिर प्रबंधन उन्हें ज्यादा वक्त लेकर कार्य पुरा करने के लिए कहता है। इसमें प्रबंधन की कोई गलती नहीं है। छात्र पढाई में होशियार हो सकता है, पर काम वक्त पर ही पूरा बोभ। कुछ छात्र बहुत ही ग्रामीण

ष्ठभूमि से आते हैं और वो कैम्पस में बड़े शहरों के छात्रों के रहन-सहम, भाषा-संस्कृति से हीनता सुरुमुस करते हैं। इसके चलते वे खुद को उस माहौल में ढाल नहीं पाते हैं। तीसरी वजह थी, अत्यधिक अपेक्षाएं। कई दफा अभिभावकों और रिश्तेदारों अपेक्षाओं को पूरा नहीं कर पाते हैं और वे अंदर ही अंदर घुटने लगते हैं। इस स्थिति को वे अपने लोगों या दोस्तों से साझा भी नहीं करते और वे भीरे-धीरे अवसाद में चले जाते हैं। हमारी अनशंसाओं में यह बात प्रमुखता से थी कि इन कॉलेजों में संरचित काउंसलिंग तंत्र होना चाहिए। हमने यह बताया कि इस तंत्र में पेशेवर मनोविजानी हो जानकार चिकित्सक हो, काउंसलर हों। इसके अलावा एक संस्थान में बेहतर माहौल के लिए कई अन्य जानकारियां भी दी गई। हालांकि कई आईआईटी में पहले से अच्छी काउंसलिंग की व्यवस्था मौजूद है। कुछ दूसरे संस्थानों में ऐसी व्यवस्था ले के लिए भी हमने सरकार को पढ़ने वाले होते हैं। कई संस्थानों

करना पड़ेगा। अगर वे नहीं करेंगे, तो डिग्री में पिछड़ेंगे और फिर कई बार वे आत्महत्या जैसा कदम उठा लेते हैं। ऐसे में छात्रों को भावनात्मक सहारे की बहुत जरूरत होती है और वह काउंसलिंग के जरिए संस्थान को मुहैया कराना चाहिए। लेकिन पहले छात्र की ओर से परेशानी साझा करना बहुत जरूरी है।

महज यह कह देना कि आईआईटी की शिक्षा ज्यादा बोझिल हो गई है और छात्रों पर पढ़ाई का दबाव है, तो यह तर्क कतई ठीक नहीं है। आईआईटी का सिस्टम खराब नहीं है, बल्कि वहां तो एक सम्पूर्ण व्यक्तित्व तैयार करने के सम्पूर्ण व्यक्तित्व तयार करन क प्रयास होते हैं। आर कुछ छात्र ऐसा नहीं कर पाते हैं, तो उसकी अलग और निजी वजहें हो सकती हैं। आईआईटी में किसी छात्र को किताबों और एक कमरे तक सीमित नहीं रखा जाता है। वहां खूब आपसी संवाद होता है, रचनात्मक गतिविधियां होती हैं। फिर भी किसी

हल निकाला जाता है। दसरा यह तर्क भी सरासर गलत है कि नए आईआईटी खुलने से स्तर कमजोर हो रहा है, छात्रों को अच्छा प्लेसमेंट नहीं मिल रहा है। बहुत सारी गतिविधियां कक्षा से बाहर होती है, इनमें सोशल, साइंटिफिक और इनोवेशन सब शामिल है। एकेडमिक तो सिर्फ 30 फीसद ही है, ऐसे में ज्यादा तनाव का सवाल ही नहीं उठता। अमरीका में तो हमारी आईआईटी की तारीफ होती है, लेकिन हम उन्हें नकारने में लगे हैं। अभी भी आईआईटी देश का बेहतरीन संस्थान है और वहां सर्वश्रेष्ठ छात्र तैयार होते हैं।

छात्र को समस्या है, तो उसे फौरन साझा करना चाहिए, वहां उसका

(लेखक छात्र आत्महत्या रोकने के लिए बनी टास्क फोर्स के अध्यक्ष थे)

एक युवा की कहानी...

सार-सम्भाल ने बदले हालात

य ह एक ऐसे बच्चे की कहानी है जो टेलेंटेड भी है और इमोशनल भी। माता-पिता और एक बहन। परिवार भी ज्यादा बड़ा नहीं है पर जितना है वो बच्चा उससे गहरा जुड़ा है। कोचिंग के

बिना अपनी स्वाभाविक प्रतिभा से उसका चयन आईआईटी में हो गया। यहीं से कहानी बदल जाती है। बच्चे पर इमोशन हावी हो जाते हैं। कॅरियर, उससे मिलने वाला अथाह वेतन और शानो-शौकत भरी जिन्दगी उसे अपने छोटे से परिवार से भी छोटी लगने लगती है। वह अपना फैसला सुना देता है-मुझे कहीं नहीं जाना। आप ही के साथ रहना है। इसी शहर में रहना है। माता-पिता बेचारे परेशान। एक तरफ बेटा दूसरी तरफ लम्बे-चौड़े अरमान। अपने

जा निए 'होम सिकनैस' की वजह से अवसाद में गए और फिर परिवार की सार-सम्भाल से उबरे आईआईटी के एक छात्र की कहानी। जिसने न सिर्फ टॉप किया, बल्कि आज एक एमएनसी में अपनी चमक बिखेर रहा है।

से ज्यादा उन्हें बच्चे के भविष्य की चिंता सताने लगी। खूब समझाया। उसके निर्णय का अच्छा-बुरा बताया लेकिन फिर भी वो अपने निर्णय पर अडिंग। अन्त में उन्होंने अपने एक परिचित मनोचिकित्सक की मदद

कुरेदा-खूब बुलवाया। पढ़ाई स लेकर घर-परिवार और देश-पर्चे पर एक

दुनिया की ढेरों बात कीं। दुनियादारी समझाई और अन्त में गोली का नाम लिखा। बोले तीन दिन लेना। अच्छा लगे तो पन्द्रह दिन लेकर फोन करना। माता-पिता को मस्त रहने की हरी झण्डी दी। झण्डी काम कर गई। बच्चे को होम

. भारत	में आत	महत्याष				
1,35,445	2,246 परीक्षा में फेल होना	आत्महत्या के त 3,849 प्रेम सम्बन्धों के चलते	मूल कारण 1,731 बेरोजगारी के कारण	यहां विद्यार्थी अधिक संवेदनशील प्रदेश विद्यार्थी ओडीशा ४२३ आंध प्रदेश ५५७ कर्नाटक ५६०	रो शहर आज शहर विद्यार्थी दिल्ली १८५ मुलबई १३७ चेन्नई १२१ कानपुर २०	राहर विद्यार्थी पूना 46 जयपुर 42 कोटा 34 सुरत 33
2012 कुल आत्महत्याओं	1,35,585	1,34,599 2010	1,27,151	मध्य प्रदेश 595 तमिलनाडु 795 महाराष्ट्र 921	नागपुर ६६ हैदराबाद ६० अहमदाबाद ५५	इंदौर ३२ भोपाल ३० जबलपुर २८
में युवा (15 से 29 वर्ष) 34.4 %			2009 रोजगार	1,25,017 2008 ल काइम रिकॉर्ड ब्यूरो	1,22,637 2007	1,18,11 2006

किया। सात दिन बाद उसने आईआईटी ज्वाइन कर ली। माता-पिता उसके पास नियमित जाते रहे। मेधावी था ही, पहला ही नहीं, सभी समेस्टर टॉप किए। गोल्ड मेडल लिया। पीजी किया और आज एक बहुराष्ट्रीय कम्पनी में बड़े ओहदे पर है। खुद की ही नहीं, खानदान की सूरत बदल गई है। आज भी डाक्टर ने बच्चे को बुलाया। खूब परिवार उसके लिए सब कुछ है। पुरी कहानी का सन्देश यह है कि-

'बच्चे की पूरी जिम्मेदारी माता-पिता की है। जब तक वह मजबूती से अपने पैरों पर खड़ा नहीं



HRD ministry orders NAAC-UGC split

Takes Accreditation Body Under Its Wing, Will 'Sanitize' It After Allegations Of Favour

Hemali Chhapia

Mumbai: In a watershed decision, the human resource development ministry has asked the NAAC, the country's accreditation body for educational institutions, to snap ties with the University Grants Commission.

The ministry will take the National Assessment and Accreditation Council (NAAC) under its wings. Currently, the NAAC functions under the UGC, but the HRD ministry has in a letter bluntly asked the accreditation body and the UGC to keep each other at "an arm's length".

The divorce will require the NAAC to draw up new bylaws, besides amending its memorandum of association (MOA). Ministry sources said

No council recognition to 133 varsities

A head of the of the admission season, UGC prepared a list of universities accreditation status and the data threw up startling facts. As many as 133 universities in India are eligible for accreditation but have not yet applied to undergo the process and 77 have let their NAAC accreditation expire in 2014. Of these 29 have applied for re-accreditation. Still, there are 209 universities across the country that are not eligible for accreditation. Two premier universities in Tamil Nadu – Anna University and the University of Madras – too don't have the mandatory NAAC accreditation. This probably explains why many students passing out colleges the country face problems in getting jobs or admission to higher studies. Academics said the poor quality of higher education in the country is forcing many students to look overseas for education, despite the high cost. TNN

apart from routine administrative changes, the NAAC whose inspections have been the subject of intense scrutiny and debate, with widespread allegations of favours taken and given — has to be revamped and "sanitized". "After the UGC made accreditation mandatory, the idea of making the NAAC an independent body has, been stressed upon in several meetings," an HRD ministry official said. Across the world, such a separation is the norm. "The regulator [UGC] and the assessor [NAAC] cannot be the same body; they must be independent," said Goverdhan Mehta, NAAC executive council chairman. "How can assessment be carried out by a body of your own creation?"

Many in the ministry blame the UGC for the limited growth of the NAAC. Officials feel the National Board of Accreditation (NBA), which grades technical courses, underwent a transformation "financially and functionally' after it was separated from the All India Council for Technical Education (AICTE). The process of making the NBA autonomous and independent of the AICTE was driven by the goal of making the NBA a member of the Washington Accord, which is seen as an international platform for governing quality in undergraduate engineering programmes.

"Thus, keeping in view the existing requirements of a globally accepted quality regime for enhancing student mobility, it is requested to work out a copy of the draft MOA and rules to make the NAAC autonomous in relation to the UGC," the ministry's letter said. Most members of the NAAC executive committee refused to comment and said the matter was "confidential".

Once independent, the head of the NAAC, the chairperson of the executive council, would be appointed by the ministry.

For the full report, log on to www.timesofindia.com

UGC finds 77 universities have let NAAC certificate lapse

M Ramya,TNN | Feb 9, 2014, 03.49 AM IST

CHENNAI: Two premier universities in Tamil Nadu - Anna University and the University of Madras - don't have the mandatory NAAC accreditation. That probably explains why many of the two lakh-odd students passing out of engineering, arts and science colleges in Tamil Nadu face problems in getting jobs or admission to higher studies.

That the two big institutions don't have the stamp of quality that an accreditation gives came to light when the University Grants Commission prepared a list of universities and their accreditation status ahead of the admission season. UGC found that 77 universities across the country, including eight in TN, have let their NAAC accreditation expire in 2014. Of this, 29 have applied for re-accreditation. In Tamil Nadu, Anna University and Madras University are among those that have let their accreditation expire.

M Anandakrishnan, chairman of IIT-Kanpur's board of governors and former Anna University

vice-chancellor, said, "Some institutions haven't realized that in the last four or five years, employees, foreign universities and foreign embassies have been inquiring whether the institution the candidate comes from is accredited. Universities are ignorant as to why accreditation is essential," he added. Nasscom regional director K Purushothaman said NAAC accreditation is a "certification of credibility" that companies recognize while recruiting candidates.

The 150-year-old University of Madras, commonly referred to as the parent university in the state, has been functioning without accreditation for nearly two years. The National Assessment and Accreditation Council awarded an 'A' grade to the university with a cumulative grade point average of 86% the last time. The university's accreditation expired on March 2012.

University vice-chancellor R Thandavan said that the previous administration had failed to apply for the re-accreditation on time. "As soon as I took charge I applied for re-accreditation. We are allowed to apply for the process within a year after the validity expires." He said that a team from NAAC is expected to visit the university from March 3 to 7. "We don't expect any problem in getting the accreditation after the team's visit," Thandavan said.

Anna University, which has more than 550 engineering colleges affiliated to it, has been functioning without an accreditation since February 2007. University officials said administration changes, including the splitting of the university into four Anna Universities of Technology and the formation o Anna University-Chennai as a unitary university in 2007, and the consequent merger of the five universities in 2012 led to delays in applying for re-accreditation.

S Ganesan, registrar in charge of Anna University, said, "We applied for re-accreditation recently. We are waiting for the NAAC team's visit. But, it has been cancelled thrice for administrative reasons. The meeting has been set up in June or July now." The government has made accreditation mandator for all higher educational institutions to ensure quality. Still 133 universities in India that are eligible for accreditation have not yet applied to undergo the process.

Anandakrishnan said that many of the institutions postpone the accreditation process because they are unable to conduct a self review. "The accreditation criteria have completely changed now, and is more based on teaching, learning and governance parameters. Institutions are afraid of not making a good grade, so they try to postpone the process at least during a particular person's governance."

Promise of infra sops to Seemandhra

NEW DELHI: The Telangana Bill cleared by the Union Cabinet has several infrastructure sops for the Seemandhra region, which did not find a mention earlier, a move seen as a bid to placate people opposed to the bifurcation of Andhra Pradesh.

The residuary state will have a Petroleum University, National Institute of Disaster Management, steel plant in YSR district and a metro rail network, says the Andhra Pradesh State Reorganisation Bill.

Efforts will also be made to upgrade Visakhapatnam, Vijayawada and Tirupati airports to international standards.

These are part of the 32 amendments, which the Cen-

tre will move when it is tabled in Parliament.

The residuary state will also get an IIM, IIT, IIIT, NIT, IIS-ER, tribal university, central university, an AIIMS-type superspeciality hospital-cumteaching institution and an agricultural university by 2023.

Telangana will have a Tribal University and a Horticulture University, according to the proposed 13th schedule of the Bill.

In a politically interesting move, the government also proposed that Steel Authority of India should examine the feasibility of establishing an integrated steel plant in YSR district, formerly known as Kadapa. The district was named after former chief minister Y S Rajashkehar Reddy. The YSR Congress, led by his son Jaganmohan Reddy, has staunchly opposed the bifurcation of the state.

SAIL will also examine within six months from the formation of the new state the feasibility of establishing a similar steel plant in Khammam in the Telangana region.

According to the amendments that will benefit Seemandhra, the Centre will also examine the feasibility of a metro rail facility in Visakhapatnam and the Vijayawada-Guntur Tenali Metropolitan Urban Development Authority within one year from the date of bifurcation.

The Centre will also take measures to establish rapid rail

and road connectivity from the new capital of the successor state of Andhra Pradesh to Hyderabad and other important cities of Telangana.

The amendments have put a timeline for considering and taking a decision on several infrastructure projects.

A decision on the already announced plans on having a railway zone for Andhra and a rail coach factory for Telangana will have to be taken within six months of the bifurcation.

A one-year deadline has also been set to examine the feasibility of the Vizag-Chennai Industrial Corridor along the lines of the existing Delhi-Mumbai Industrial corridor.

DH News Service

HT Lucknow

Indian-origin academicians lead top global institutes

Vanita Srivastava

vanita srivastava@hindustantimes.com

NEW DELHI: The club of Indianorigin academicians taking up key roles in the best international institutes is getting bigger: And Sanjeev Kulkarni, an Indian-American, recently appointed as dean of the Princeton University Graduate School is its latest member.

Last month, Indian-American professor Rakesh Khurana joined the prestigious club after being appointed dean of Harvard College.

In 2010, Nitin Nohria made the country proud after he became the first Indianorigin head of the prestigious Harvard business school. In the same year, University of Chicago's Booth School of

Business named Sunil Kumar as its dean.

"This is a natural consequence of the inflow of Indianorigin academicians in the US universities some 20-25 years ago. Their progression in their respective institutes is now reflected in their career growth," Kumar told HT.

Sri Zaheer, dean at the University of Minnesota's Carlson School of Management believes the US provides a meritocratic environment that has helped immigrants from different nationalities to rise to top ranks. "I hope in this process all of us who have a soft spot for our home countries can act as bridges," Zaheer said.

Soumitra Dutta took over as the dean of Cornell University's management



Sunil Kumar

ON TOP OF THE WORLD

- Sanieev Kulkarni next dean of Princeton University Graduate School
- Rakesh Khurana will take over as the next dean of Harvard College in July

school in 2012. Although opening a campus in India is not part of his future plan, he



Soumitra Dutta

- Soumitra Dutta is dean of management school at Cornell
- Nitin Nohria was appointed dean of Harvard Business School in 2010

wants to build stronger links with researchers.

"This trend has essentially

THIS TREND IS **BECAUSE OF INDIANS BEING SKILLED AND** HARD WORKING

born out of Indians being skilled, hard working and global and also because America is a country that judges you by your skills," Dutta said.

"Some of the best Indian students come here for higher education, particularly for research. India needs to have more research varsities," says Naravanamurti Venkatesh, who became the dean of School of Engineering and Applied Sciences in 1998.

He became dean of Physical Sciences at Harvard university in 2003.

Math is like sport. Training is tough but the win's wonderful

Who would have thought that the longest-running scripted TV show in the world, 'The Simpsons', contains hidden math messages inserted by the writers themselves? British science writer Simon Singh discovered this, and has documented the story in his recent rib-tickling book 'The Simpsons and Their Mathematical Secrets'. Singh, a physicist and math lover, has worked with the BBC. made television shows and

FOR THE RECORD

documentaries, taught in schools — including a stint at the Doon School, Dehradun and written popular books on code breaking, famous math puzzles, debunking homeopathy and the Big Bang. On a visit to Delhi recently, he met up with Subodh Varma to talk about a range of subjects, including math & alternative medicine

'The Simpsons' has got hidden math? It sounds weird! How did you discover this?

I have always loved watching TV. And Simpsons is a favorite. In one of the episodes, Homer is hiding behind a bookcase because his sisters-in-law have come for a surprise visit. There, he finds a mysterious portal. He goes through it to find himself in a 3-D world where well-known math equations appear to fly by him. I did some digging and found that five of the key script writers have math or physics degrees from Harvard. Two of them have PhDs! So I went and met with them and talked to them. That's how the book came by A very large number of people love The Simpsons show. I want them to start loving math too.

Why does math cause so much fear among students?

In the school I went to, a teacher taught us math for eight successive years and my love originated there. So, whether math is loved or hated depends largely on the education system, and the teachers. Unfortunately, something has gone wrong somewhere. In England, for instance, there are no takers for physics in schools. The authorities saw this trend and said, "We have to make physics easy!" So they took out all the math from physics! The students found it comfortable but when they hit real physics at the university, they were flummoxed. In the early years in school, interest in math and science is rising because of some policies but as you get to higher classes the interest declines. You are saying that teaching methods are flawed?

It is one big factor. The standard method is this: the teacher teaches in the class and then you go home and try to solve the problems on your own. If you get stuck, there is no teacher to help. Shouldn't it be the other way around students should be solving problems with a teacher guiding and helping them. Now, with the rise of educational videos like the excellent Khan Academy ones, students can get help while solving math problems. In fact new technologies have opened new opportunities. A computer can know that you are getting stuck at the steps that involve, say, division or fractions. So, it will tell you - "Ok, let's go back to the division chapter and run through

it again". Isn't that wonderful? How do you generate confidence among students?

Once, I was giving a lecture at a school. I said the usual thing -math is great fun, you will enjoy it etc etc. After me, Marcus du Sautoy (professor at Oxford and famous math/science popularizer) got up and said the reverse - math will make you miserable, stressful, frustrated, but once you go through all

this, you will feel great. Nowadays, I have shifted to using the du Sautoy approach. Doing math is like training for a sport. The training part is tough and monotonous, but when you win a game or a race, it's wonderful. You wrote a controversial book debunking traditional medicine and homeopathy. Is it really bogus?

Look, if you say that sucking ginger helps relieve throat irritation, I have no objection. But in most cases it goes far beyond this. My family members get all

kinds of concoctions from India. How do I know what chemicals are there in those desi concoctions? I don't know how they will interact with the medicines already in the system. At worst, it is dangerous; at best, it will help for minor things. I can understand that here in India, where many people don't have access to modern medicine, or are too poor to pay for it, they will try out traditional remedies. But why in England? I think there it is a middle-class fad that believes in a sort of cosy 'lap of nature' feeling, nothing more. Mind you, pharma companies also play dirty, pushing all kinds of irrational drugs. So, one has to be careful.

February 10

Times Of India ND 10.02.2014 p-4

IT-D test drive a success, biogas-fuelled car a reality

Manash Pratim Gohain TNN

New Delhi: The latest models launched at the 12th Auto Expo 2014 are by now common knowledge among vehicle enthusiasts but few are aware that IIT Delhi has successfully tested India's first biogasfuelled passenger car.

Compressed biogas was tested on a regular CNG car for over 15,000km. The best news was for the environment — the emissions were lower than CNG. Also, existing CNG vehicles need not undergo any modification to be compatible to CBG.

The water-scrubbingbased biogas upgrade and compression/bottling system developed at the campus is now patented with IIT-D. promising a green and low cost fuel for automobiles and cooking. The project is being developed by Biogas Development and Training Centre, Centre for Rural Development and Technology, IIT Delhi, and is being sponsored by ministry of new and renewable energy.

"IIT-D has developed a

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Existing CNG vehicles need not undergo modification to be CBG compatible

small scale biogas upgrading system using water scrubbing technology (20 m3/h system). The system consists of a water scrubbing column and methane-enriched biogas compression system. Commercial viability of the biogas purification and bottling plant can be attained above 500m3/d capacity. Its payback period ranges from one to four years depending upon capacity of plant, cost of raw material for gas production and selling price of CBG," Prof. Virendra Kumar Vijay, heading the project. said.

There is no significant change in mileage of the vehi-

cle fuelled with CBG (24.11km/kg) as compared to CNG (24.38km/kg).

Vijay added, "We tested the regular CNG car on CBG for more than 15,000km. The fuel economy and mass emission of the vehicle fuelled with CBG with 93% methane and compressed natural gas were evaluated. Emissions such as CO, HC and NOx are found to be marginally higher with CNG than CBG."

Worldwide, biomass accounts for over two-thirds of all renewable energy supplies. Among biomass sources, biogas is a interesting option with a large potential, offering many excitingpossibilities to supplement existing fuels, thereby reducing our dependence on fossil fuels.

"The total potential of biogas from all sources has been estimated to be 48,382 million cubic metres a year. Assuming 50% of total upgraded biogas is used in transport sector and 50% in cooking sector, bottled biogas can fulfill 43.4% of the total transport sector demand and 41.7% of cooking sector needs," Vijay said.

Pioneer ND 10.02.2014 p-8

IITs are great, but they don't create Nadellas

Is there some dismay that the new CEO of Microsoft is not an IITian? IITs mass produce excellence, but 'lesser' institutions seem to chip in with brilliance. Mr Satya Nadella is one such product. What is remarkable is that in this era of relentless pursuit of individual careers and hopping on to disparate job contents, Mr Nadella has stuck with one company to persevere for 22 long years, to be a titan. Pedigreed IITians have only managed to, become big, maybe in larger numbers, on the wings of a generic brand value.

This brand has been finding greater acceptance on Wall Street or in IT start-ups and less in premiere engineering or scientific research institutions. In these six-plus decades of IITs, in an era of ever-exploding scientific ken, the branded alumni ought to contribute to cutting edge technologies and seminal scientific papers. We would then be not seeking vindications through the success of men of Indian origin elsewhere.

> R Narayanan Ghaziabad



HT.COM ND 10.02.2014 p-6

GREAT BRAINS STUDY ALIKE

TOP SHOTS Indians heading global firms have strikingly similar Bio-data, especially in terms of academics

Press Trust of India

he educational background of global business leaders that India has produced has a striking similarity — most of them obtained their Bachelor's in India and got their Master's in Business Administration from premier institutes in the country or the US.

The latest to join the list of Indian origin persons holding top posts at global corporations Satya Nadella's credentials resonate with this trend.

Nadella holds a Bachelor's degree in electronics and communication engineering from Manipal University, a Master's degree in Computer Science from the University of Wisconsin, Milwaukee and an MBA from the University of Chicago.

Others in this league include, PepsiCo Chairman Indra Nooyi, Reckitt Benckiser Chief Executive Rakesh Kapoor, Ajay Banga President and Chief Executive of MasterCard, Anshu Jain of Deutsche Bank.

Nooyi got Bachelor of Science degree from the Madras Christian College, later an MBA from the Indian Institute of Management (Calcutta) and a Master's degree in Public and Private Management from Yale University.

Jain studied economics at Shri Ram College of Commerce in Delhi and holds an MBA in Finance from the University of Massachusetts, Amherst.

Reckitt Benckiser's Kapoor has a Chemical Engineering degree from the Birla



From left) Microsoft founder and technical advisor Bill Gates, new CEO Satya Nadella and former CEO Steve Ballmer at a Microsoft employee rally in Redmond, Washington, on Tuesday
NYT PHOTO

Institute of Technology and Science (BITS), Pilani, and an MBA from XLRI- Xavier School of Management, Jamshedpur, India.

While, Ajay Banga of MasterCard has a degree in Economics from St Stephen's College in Delhi and MBA from the Indian Institute of Management, Ahmedabad. Experts are of the opinion that Indians'

Experts are of the opinion that Indians' focus on good education and ability to work in difficult situations is aiding to this rising trend and more and more Indians could rise to top positions at global companies in the near future. The technical skills and the behavioural patterns of Indians executives make them very much adaptable to any kind of situation they come across.

According to experts this trend in higher education in Asia's third largest economy is wide spread.

FRIENDS FROM INDIA

Experts believe that Indians' focus on good education and ability to work in difficult situations is aiding to this rising trend



PepsiCo Chairman Bachelors: Science from the Madras Christian College

MBA: Indian Institute of Management (Calcutta, now Kolkata)

> Master's: Degree in Public and Private Management from Yale University



AJAY BANGA CEO, MasterCard Bachelors: Economics from St Stephen's College, DU MBA: IIM, Ahmedabad

ANSHU JAIN Co-CEO, Deustche Bank Bachelors: Economics from SRCC, DU MBA: From University of Massachusetts, Amherst

Business Line ND 10.02.2014 p-14

Narendra Modi's poll promise: an IIT and IIM in every State

Calls knowledge most potent tool to fight poverty

OUR BUREAU

Chennai, February 9

The BJP will set up prestigious institutions such as IITs, IIMs and All India Institute of Medical Sciences (AIIMS) in every State when it comes to power, said Gujarat Chief Minister Narendra Modi, the party's prime ministerial candidate.

Students' access to such prestigious institutions and to education is limited and "this is our biggest challenge," he said at the ninth convocation of SRM University at Kattankulathur, 35 km south of Chennai.

According to him, it is unfortunate that even after 65 years of Independence, there has not been much focus on education, which is important not only for an individual's progress but for economic development and nation-building.

"We need to renew our commitment to education and commit ourselves to educating every child.

"We should not be left behind any other country in terms of coverage or quality of education," he said in a 30minute speech which was a mix of English and Hindi.

Modi said this is an era of knowledge, which is the most potent tool to fight poverty, and there is no reason why India should lag behind in education.

The nation has the brightest minds and a number of philanthropists, he pointed out.

Too few SRMs

"Why are there only a few SRMs? Why can't such institutions be established in every nook and corner of the country?" he said, and added that the private sector is eager to enter the field but requires an enabling environment.

It should be given a free



Think big Gujarat CM Narendra Modi at SRM University's convocation at Kattankulathur, near Chennai, on Sunday. BIJOY GHOSH

hand, he added. However, institution-building has to begin with the government, Modi said.

"It is our commitment to establish an IIT, an IIM and AIIMS in every State," he added.

Emphasising entrepreneurship development, Modi commented on Hyderabad-born Sathya Nadella's recent appointment as Microsoft's CEO.

Do a Nadella

"You must dream to reach the heights of Nadella. Create companies like Microsoft, Apple and Google in India, own them and manage them.

"Do whatever you can to make India innovative and competitive," he said.

According to him, India's advantage is the demographic dividend, with nearly 65 per cent of the population below the age of 35.

"Give our youth the strength and opportunity, they will do in 60 months what we could not do in 60 years," he said.

Modi urged students to strengthen their skills and think big.

"When the Japanese are thinking of improving their bullet trains, we are still thinking of adding bogies to our trains," he said.

Honorary doctorate

SRM University conferred an honorary doctorate degree on Avinash Chader, Scientific Adviser to the Defence Minister and Director-General, Defence Research and Development Organisation, for his contribution to science.

This year, 10,290 students graduated in engineering, medical and health sciences, and science and humanities courses.

PLEASURE PLAY

Soon, a contraceptive for men m

Vanita Srivastava

vanita.shrivastava@hindustantimes.com

NEW DELHI: For those who consider using condoms as one of the most inconvenient ways of deriving intimate pleasures, there is some good news. A male contraceptive to be taken as an injection — one shot effective for 10 years — is expected to hit the market soon. Scientists at IIT Kharagpur are in the final stages of developing the drug and planning its restricted monitored launch in few districts of Uttar Pradesh and Bihar.

If successful, the invention would bring about a radical change in the contraceptives' sector. "The contraceptive called Reversible Inhibition of Sperm Under Guidance (RISUG) would generate positive electrical energy when injected in the body. The positive charge of the drug would cancel the negative charge of the sperms making them incapable for fertilisation," explained Dr Sujoy Kumar



ILLUSTRATION: ABHIMANYU

Guha, professor at the School of Medicine, Science and Technology who is also in-charge of the project.

The non-hormonal, polymer-based contraceptive is injected into the vas deferens, the muscular tube that begins at the lower end of epididymis and passes upward along the side of the testis. "The contraceptive's effect will remain for 10 years, may be even more," Guha said.

The team working on RISUG has also come out with two of its variants — RISUGadv and RISUG-PH. RISUGadv has been granted patent in Europe and is being clinically studied on human volunteers in some parts of Europe for its effectiveness as a combined contraceptive and prostate cancer preventive.

"RISUG-PH, is in the animal trial stage and indirect evidence shows it can cure baldness, particularly crown baldness," Guha said.

RISUG is expected to cost ₹200-300, depending on market forces, whenever it is launched.

HT.COM ND 10.02.2014 p-6

First self-publishing MA offers DIY education in UK

Alison Flood

The University of Central Lancashire in northern England has announced the launch of what it describes as the world's first degree in self-publishing. The MA will begin in September, and

The MA will begin in September, and course leader Debbie Williams believes it will help "legitimise" self-publishing. "Things have definitely changed. In the last two years, self-publishing has stopped being a dirty word, and is a legitimate option for authors," she said. "Even the biggest authors are looking at it now."

Despite the negative light in which selfpublishing is viewed by some — Jeffrey Archer recently said "it doesn't work, don't do it. The only person who reads it is the person who gets it published", while Sue Grafton has characterised DIY-ers as "too lazy to do the hard work" — the university pointed to research from the books data company Bowker, which found that around 390,000 titles were self-published in the US in 2012, up 59% on 2011 and a massive 422% on 2007. Digital self-publishing also continues to boom, accounting for 40% of

Things have changed. In the last two years, self-publishing has stopped being a dirty word. DEBBIE WILLIAMS, Course leader self-published titles in the US in 2012, up from just 11% in 2007, according to Bowker. "Self-publishing is becoming a global phenomenon," said Williams.

"Everyone has a book in them — and many of us have a manuscript sitting in the drawer, unsure what to do with it. Think of all the literary treasures that have never had the chance to see the light of day because their authors were put off by the traditional publishing model. Our new MA will help guide these individuals through the process to help them realise the dream of seeing their book in print." The idea of launching a self-publishing MA was sparked by demand, she said, and would-be students are already applying. **GNS**

The concept of do-it-yourself (DIY) publishing is condemned by authors like

FILE PHOTO

Jeffrey Archer

