'Goal of higher education cannot be to mimic robots ... if you are industry-ready today, you may be jobless tomorrow'

Research and industry voices have been drawing attention to a crisis in the Indian job market because of young graduates lack of skills. Rupamanjari Ghosh, vice-chancellor of Shiv Nadar University, spoke to Nandita Banerji about how to revitalise higher education, accelerate employability, and prepare for the future

■ Why are so many young Indian graduates unemployable?

Business organisations today require fresh recruits who can hit the ground running. So training these graduates has to start inside higher education institutes.

the job market changing very fast in today's world. many of the skills that needed



today. Ongoing skill acquisition is critical for staying relevant in the industry, and to enable this, the key skill we need to impart to our students is that of critical thinking and creative problem solving.

Universities may offer specialisations in tune with the needs of industries or research. But the very nature of higher education should be to drive rather than just respond to industry requirements. We have to understand that an engineer doesn't just need to build a dam that is structurally and mechanically solid, he also needs to think of the environmental and economic impact. You cannot solve a problem if you don't know the context of the problem.

■ How do you assess our higher education institutes?

The problem with higher education institutes in India is that they reward implementation, not original thinking. They focus on creating clones instead of original thinkers. Students in Indian institutions have traditionally studied subjects in silos as most of our higher education system does not allow for an interdisciplinary and multidisciplinary approach to learning, which is often needed for real life problem-solving.

Students need to be generators knowledge, not just consumers. India should aim for a net surplus of knowledge. Our system encourages passive learning by promoting a "degree college culture where the learners are just bombarded with information that they are expected to memorise. Learning is not fun but has

become a rote process.

How should the learning

Investment is required for resources in infrastructure. You can't have shortcuts. Students need to participate in the learning to remember. Learning by doing has to exist, otherwise, after each exam, there is a delete button on what was learnt. Research should be encouraged, not just for PhD students and faculty, but also for undergraduate students

The responsibility of learning is upon the student, but it is the task of the educators to facilitate

that learning. Students need all the tools available to find their passion, which is rare, but if the student finds it, the chances of excelling are the highest. They need a flexibility during the learning process, along with supervision and mentoring, to be able to find that passion. The concept of university-wide electives can help with this. Choosing a combination of major and minor subjects can help with the exploration process

Can a top-down approach work?

We need to start necessarily with a vision-oriented strategy, a top-down approach based on collective wisdom or national policies, and it has to merge with an inclusive, organic, bottom-up approach, which is stable.

We need to look at both the content and method of delivery in the degree programmes. There has been an over-emphasis on mastering the fundamentals and being safe but an under-emphasis on exploration-driven learning and learning from failures. The mode has to be student-centric, active or participatory so that they 'learn by doing'. The most

important element in this is quality faculty as facilitators of learning. To enable the faculty we of course need resources, and leadership has to be competent and professional.

What other took

■ What other tools do students need to be employable?

People spend a lot of time in packaging though the content is more important

But communication is one tool you need to impart no matter what. You also need to be open to possibilities. Industry-ready should not be the only focus. If you

are industry-ready today, you may be jobless tomorrow. You need to be prepared for critical and creative thinking. That is the skill you need to learn.

■ In what way will digitisation affect job prospects?

School, college and university knowledge can't skirt the issue of livelihood. People are worried about 'the future of work' and how the digital world is going to take away jobs, from even the 'smart' ones. The livelihood issue that our country is facing, starting with the farmers, has to become a part

which the farmers, has to become a part of our education.

We are producing graduates who cannot find jobs and livelihood today but are worrying about the future of work, which is based on a phobia for digitisation. This fear is also present with graduates who feel nervous that they will lose their jobs because of digitisation. But the goal of higher education cannot be to mimic robots. You have to find out what is essentially human that robots cannot do. We need to be ahead of the timestamp.







ಮಣಿಪಾಲ । ಬೆಂಗಳೂರು । ಹುಬ್ಬಳ್ಳಿ । ಕಲಬುರಗಿ । ದಾವಣಗೆರೆ । ಮುಂಬಯಿ

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ಪುಟಗಳು 12+8+4

ಮೂರು ಕೋರ್ಸ್ಗಳತ್ತ ಅಭ್ಯರ್ಥಿಗಳ ಚಿತ್ರ I ಕಂಪ್ಯೂಟರ್ ಸೈನ್ಸ್, ಮೆಕ್ಯಾನಿಕಲ್ ಕೋರ್ಸ್ ಗೆ ಹೆಚ್ಚಿದ ಬೇಡಿಕೆ

ಬೆಂಗಳೂರು, ಆ. 2: ಎಂಜಿನಿಯರಿಂಗ್ ಪೂರಕ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಉತ್ತೀರ್ಣರಾದ ಟೆಕ್ನಾಲಜಿ ಸಹಿತ ಅನೇಕ ಕೋರ್ಸ್ಗಳನ್ನು ಕಾಲೇಜಿಗಳು ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ಸೆಳೆಯಲು ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಹಂಚಿಕೆ ಮಾಡಲಾಗುತ್ತದೆ. ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಆಫರ್ ಮಾಡಲಾಗುತ್ತದೆ. ತಂತ್ರಜ್ಞಾನ ಆಧಾರಿತ ಹೊಸ ಕೋರ್ಸ್ ಗಳನ್ನು ಇದಕ್ಕಾಗಿ ಅಭ್ಯರ್ಥಿಗಳ ದಾಖಲೆ ಆದರೆ ವಿದ್ಯಾರ್ಥಿಗಳ ಚಿತ್ರ ಮಾತ್ರ ಪರಿಚಯಿಸುತ್ತಿದ್ದರೂ, ಕಂಪ್ಯೂಟರ್ ಸೈನ್ಸ್ ಪರಿಶೀಲನೆಯೂ ನಡೆಯುತ್ತಿದೆ. ರಾಜ್ಯದ ಕಂಪ್ಯೂಟರ್ ಸೈನ್ಸ್ ಮೆಕ್ಯಾನಿಕಲ್, ಮಕ್ಕಾನಿಕಲ್, ಎಲೆಕ್ಟಾನಿಕ್ಸ್ ಮತ್ತು

ಕಮ್ಮೂನಿಕೇಷನ್ ಕೋರ್ಸ್ಗಳಗೆ ಬೇಡಿಕೆ ಹೆಚ್ಚಾಗಿದೆ.

ವೃತ್ತಿಪರ ಕೋರ್ಸ್ಗಳ ಪ್ರವೇಶ ಪ್ರಕ್ರಿಯೆ ಆರಂಭವಾಗಿದೆ. ಸರಕಾರಿ ೋಟಾದಡಿ ಪ್ರಸಕ್ತ ಸಾಲಿನಲ್ಲಿ

Melund ಹಂಚಿಕೆಯ ಒಂದು ಮತ್ತು ಏರೋಸ್ಟೇಸ್ಎಂಜಿನಿಯರಿಂಗ್,ಮೆಕಾನಿಕಲ್ ಪಡೆದಿರುವ ಅಭ್ಯರ್ಥಿಗಳಲ್ಲಿ ಶೇ.75ಕ್ಕೂ ಎರಡನೇ ಸುತ್ತು ಪೂರ್ಣಗೊಂಡಿದೆ.

ಕಂಪ್ಯೂಟರ್ ಸೈನ್ಸ್ ಸಿವಿಲ್ ೯ಗಳ ಸುತ್ತವೇ ಕೇಂದ್ರೀತವಾಗಿದೆ. ಎಂಜಿನಿಯರಿಂಗ್, ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಸಿವಿಲ್ ಎಂಜಿನಿಯರಿಂಗ್ ಕೋಸ್

ತಂಚಕೆಯಾಗಿ ಉಳಿದ ಸೀಟುಗಳನ್ನು ಎಂಜಿನಿಯರಿಂಗ್ ಹಾಗೂ ನ್ಯಾನೋ ಮೂಲಗಳುಖಚಿತಪಡಿಸಿವೆ.

215 ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಲ್ಲಿ ಎಲೆಕ್ಟಾನಿಕ್ಸ್ ಮತ್ತು ಕಮ್ಯೂನಿಕೇಷನ್ ಕೋಸ್

ಮತ್ತು ಎಲೆಕ್ಟಾನಿಕ್ಸ್ ಕೆಮಿಕಲ್ ೯ಗೆ ಬೇಡಿಕೆ ಕಡಿಮೆಯಾಗಿರುವುದರಿಂದ ಶಿಕಣ ಎಂಜಿನಿಯರಿಂಗ್, ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಕಂಪ್ಯೂಟರ್ ವಿಜ್ಞಾನ, ಮೆಕ್ಯಾನಿಕಲ್ ಕೋಸ್ ಮತ್ತು ಕಮ್ಯೂನಿಕೇಷನ್, ೯ಗಳಿಗೆ ಬೇಡಿಕೆ ಹೆಚ್ಚಾಗಿದೆ. ಕರ್ನಾಟಕ ಲಭ್ಯವಿದ್ದ 55,216 ಎಂಜಿನಿಯರಿಂಗ್ ಎರೋನಾಟಕಲ್ ಎಂಜಿನಿಯರಿಂಗ್, ಪರೀಕ್ಷಾ ಪ್ರಾಧಿಕಾರದ ಮೂಲಕ ಸೀಟು ಎಂಜಿನಿಯರಿಂಗ್, ಎನ್ವಿರಾನ್ ಮೆಂಟ್ ಸೈನ್ಸ್ ಹೆಚ್ಚಿನವರು ಈ 3 ಕೋರ್ಸ್ ಗಳನ್ನೇ ಆಯ್ಕೆ 2ಗೇ ಮುಂದುವರಿದ ಸುತ್ತಿನಲ್ಲಿ ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ, ಅಟೋಮೊಬೈಲ್ ಮಾಡಿಕೊಂಡಿದ್ದಾರೆ ಎಂದು ಪ್ರಾಧಿಕಾರದ

ಹೆಚುವರಿ ಸೀಟು ಲಭ್ಯ

ವೃತ್ತಿಪರ ಕಾಲೇಜುಗಳಲ್ಲಿ ಎಂಜಿನಿಯರಿಂಗ್ ಸೀಟು ಗಳನ್ನು ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಮುಕ್ಕವಾಗಿ ಮಾರಾಟ ಮಾಡುತ್ತಿರುವುದು ಗೌಪ್ತವಾಗಿ ಉಳಿದಿಲ್ಲ ಸರಕಾರಕ್ಕೆ ಸೀಟ್ ಮ್ಯಾಟ್ರಿಕ್ ನೀಡುವ ಮೊದಲೇ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಸೀಟು ಹಂಚಿಕೆ ಮಾಡುವುದು ಉಂಟು. ಮ್ಯಾನೇಜ್ ಮೆಂಟ್ ಕೋಟಾದ ಸೀಟುಗಳಲ್ಲಿ ಭರ್ತಿಯಾಗದೇ ಉಳಿದ ಸೀಟುಗಳನ್ನು ಕಾಮೆಡ್ -ಕೆಗೆ ನೀಡುತ್ತಾರೆ. ಅಲ್ಲಿಯೂ ಭರ್ತಿಯಾಗದ ಸೀಟುಗಳನು ಸರಕಾರಿ ಕೋಟಾದಡಿ ಹಂಚಿಕೆ ಮಾಡಲು ಪ್ರಾಧಿಕಾರಕ್ಕೆ ಸಲ್ಲಿಸುತ್ತಾರೆ.