



Report - One Day National Seminar on
“Perspective and Challenges on Adopting the Curriculum for Engineering and
Technology in INDIA”
Organized by
Internal Quality Assurance Cell (IQAC)
Vignan’s Foundation for Science, Technology and Research, Vadlamudi 522 213,
Andhra Pradesh, INDIA.
Date: 21st December, 2019 (SATURDAY)

One day National seminar on “Perspective and Challenges on Adopting the Curriculum for Engineering and Technology in INDIA” was organized by IQAC at Spoorthi seminar hall, A block, Vignan’s Foundation for Science, Technology and Research on 21st December, 2019. The Seminar was formally inaugurated by Rector Dr. K. Prasad, Dean IQAC - Dr. Ramakrishna, Prof. Radhika, Principal, Vignan’s NIRULA Prof. Vijayaramu, Dean Academics, speakers of the seminar Prof. C.R.Muthukrishnan, Former Deputy Director, IIT, Chennai, Prof. R.K.Misra, IIT-BHU, Varanasi, Prof. Rajashekhar, Pro Vice-Chancellor, University of Hyderabad and Dr. Malliga, Head-Media, NITTTTR, Chennai. The chief guests lit the lamp and started this program.

On this occasion the chairman of VFSTR Dr. LavuRathayya said that indian universities has no problem with curriculum but we should change the way of treating our curriculum, we have a memory and theoretical based curriculum which can be added with practical methods that increase the standards of the students. “Conventional black board teaching curriculum should be changed with practical sessions which helps the students to interpret, analyze, observe and grasp the depths of every topic” he opined. The chief guests were felicitated by the staff of VFSTR.

Rector Dr. K. Satya Prasad has appreciated the executive committee of IQAC Dr. K. Balamurugan, Dr. N.S.Sampath Kumar, Dr. U. Janardhan Reddy, Ms. J. Pratibha and Y.Jyoththi for organized and arrangements of the seminar in a good way. Inaugural vote of thanks given by Dr. V. Srinivasadesikanorganizing secretary of the one dayNational Seminar. Deans, heads of various departments, faculty of VFSTR, faculty from various institutions and research scholars were attended this seminar. Almost 300 participants were benefited by this National Seminar.

Prof. Muthukrishnanhas delivered his first talk in the seminar with the title of “Engineering Curriculum - Compromise or balance of Stake-holder expectation and interests”. He focused on goal of the (new) curriculum. Prof. Muthukrishnan said that the present engineering students and teaching staff should get involved into practical study rather than a theoretical study for the betterment of the curriculum, the main challenges that comes in adopting this kind of curriculum is breaking the conventional methods of learning by student and teaching by teacher. He explained there needs to be a strong emphasis on laboratory and project work, preferably from the first year onwards, to complement theory. He pointed out that the students who join in the Engineering branches may not be passionate to their disciplines and they need to be sufficiently motivated. He also suggested some of the key points to be followed during the time of Curriculum design which are;design of the curriculum, some useful ingredients are:A strong grounding in various areas like science, engineering, humanities and management; start in the first few semesters to kindle students' interest in innovation and technology etc.,

Prof. R.K.Misra from IIT-BHU who designed the Bridge course for AICTE 2018 model curriculum, delivered his talk on “Humanities courses for Engineering and Technology: a case study of AICTE model curriculum”. He emphasized the importance of Humanities subjects for engineering students. Humanities courses would be connected with and have an understanding of one's family, neighborhood, society, nation and the world. He advised that the courses can be arranged in following three categories; such as 1. Human Values Courses 2. Foundational humanities courses 3. Elective humanities courses

Prof. Rajashekhar, Pro Vice-Chancellor of University of Hyderabad delivered his talk with the title of “Qualities issues in Curriculum Design and Development”. He mentioned the importance of Outcome-Based Teaching and Learning. Also emphasized that the people concerned in curriculum planning gathering without conflicting points on foundations. They may be able to work faster. If persons involved have no agreement on these. This would create confusions. Societal and ideological problems facing curriculum have broadened the cultural and philosophical dilemma. The challenges in developing an effective curriculum are Teacher effectiveness, Life skills, Drug abuse Education, Economic Problems, Change in curriculum, needs financial support and New teaching materials.

The last session of the seminar was delivered by Dr. P. Malliga, Head-Media, NITTTR, Chennai. She delivered the talk with the title of “Technology and Innovations in Teaching and Learning”. She mentioned that the new generation of learners need to fulfill with effective and digitalized curriculum. There are various learners and learning methodology which are Multimodal Learners Good at Discovering information, Shorter attention span, Flexible Learning environments, Relaxed Learning environments, Like Informal and stimulating environments, Prefer Active Learning, Prefer interaction and Collaboration, Experiential Learners, Comfortable with technology, Multitask, Extremely relational, Peer Learning

etc., Various e-contents are available and few are WWW.SWAYAM.GOV.IN, WWW.VLAB.CO.IN, https://spoken-tutorial.org etc., She also quoted that the INNOVATIVE TRENDS in EDUCATION are as follows; Paperless books, Artificial Intelligence, AR/VR in classrooms, Social Media Influence, Online courses and Learning, Digital and Media Literacy, Embedding Innovative e-Resources, Gamification and Gamified Learning, Flipped Learning, Analytics and Data driven Decisions, Wearable Technology, Data Privacy and Cyber Security etc., With this information she concluded her talk and addressed the questions raised by audience effectively. Then the certificate distribution followed by valedictory held successfully at Spoorthi seminar hall.



