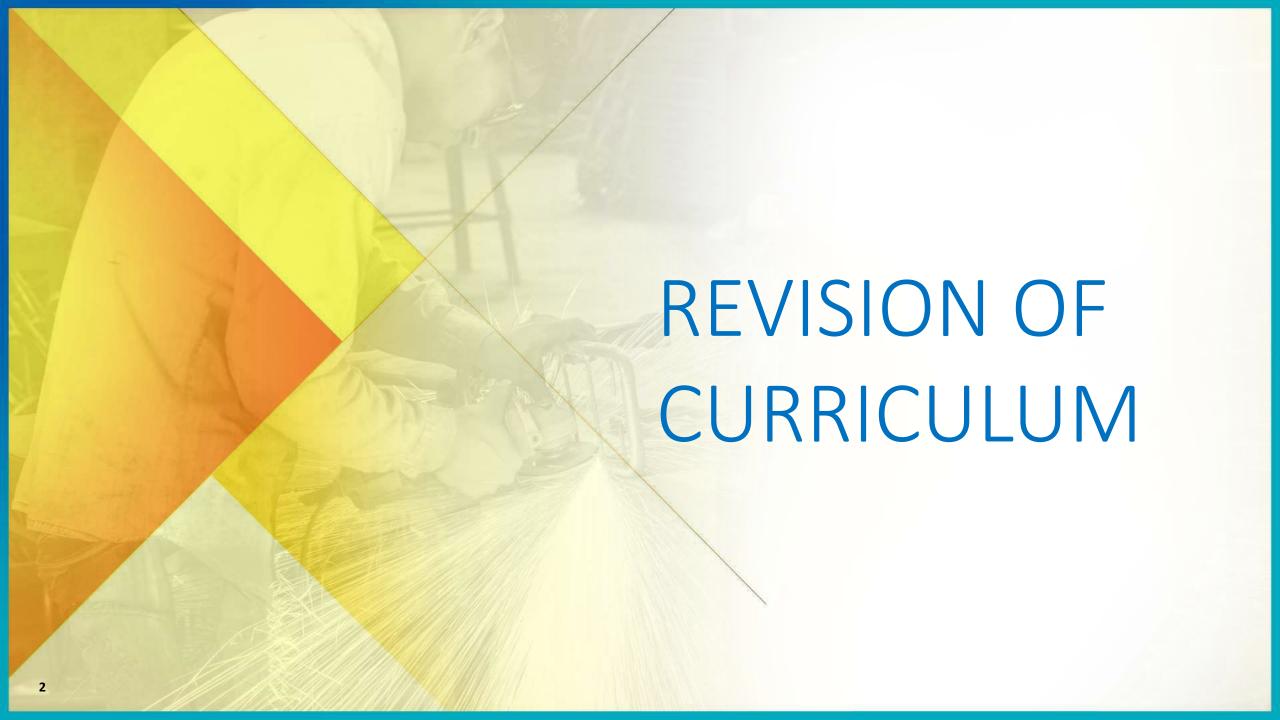


अखिल भारतीय तकनीकी शिक्षा परिषद् All India Council for Technical Education

81

AICTE

QUALITY
INITIATIVES
IN TECHNICAL
EDUCATION



Disciplines covered in Model Curriculum (UG)

Emerging areas



ΑI



IoT



Robotics



Quantum Computing



Block chain



Data Science



Cyber Security



Design



AR/VR



3d printing

Under Graduate

Computer Science
Civil Engineering
Electrical Engineering
Mechanical Engineering
Electronics &
Communication Engg.
Chemical Engineering
Metallurgical Engineering
Architecture

Disciplines covered in Model Curriculum(PG)

Emerging areas



ΑI



IoT



Robotics



Quantum Computing



Block chain



Data Science



Cyber Security



Design



AR/VR



3d printing

Post Graduate

-7-8

Computer Science Engineering

Electrical Engineering

Mechanical Engineering

Civil Engineering

Chemical Engineering

Electronics & Telecommunication

MBA & PGDM

Model Curriculum Development:Institutions & Industry Experts



- Most of the Technical Universities adopted AICTE Model Curriculum
- Implementation from A/Y 2019-20.
- UG Credits reduced to 160 from 200
 to 220 and in line with requirements
 of Industry 4.0.
 - PG Credits reduced to 68 in
 Engineering & 102 in Management.



- UG Model Curriculum
- Eleven Committees
- Experts (33) from IITs
- Experts (8) from industry



- PG Model Curriculum
- Experts (22) from National
 Institutes of Repute
- Experts (12)from Industry







Activities under Induction Program (So far...)

Workshops conducted So far: 100+.

Induction Cell established at AICTE to monitor induction activities

Feedback Analysed to improve the induction program

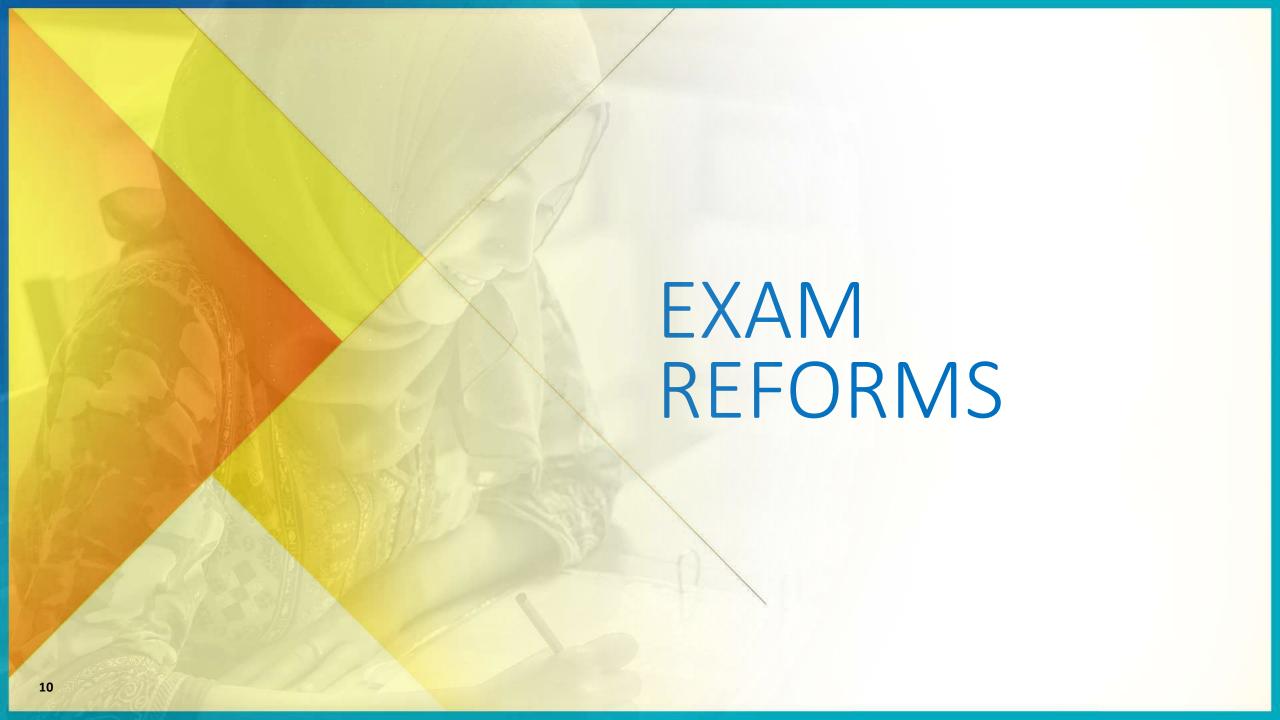
Faculty members participated: 9,000+.

Feedback from students, faculty and institutions has been collected to access the impact of Induction program The target is to involve
100% students entering in
technical education
undergo Induction
program

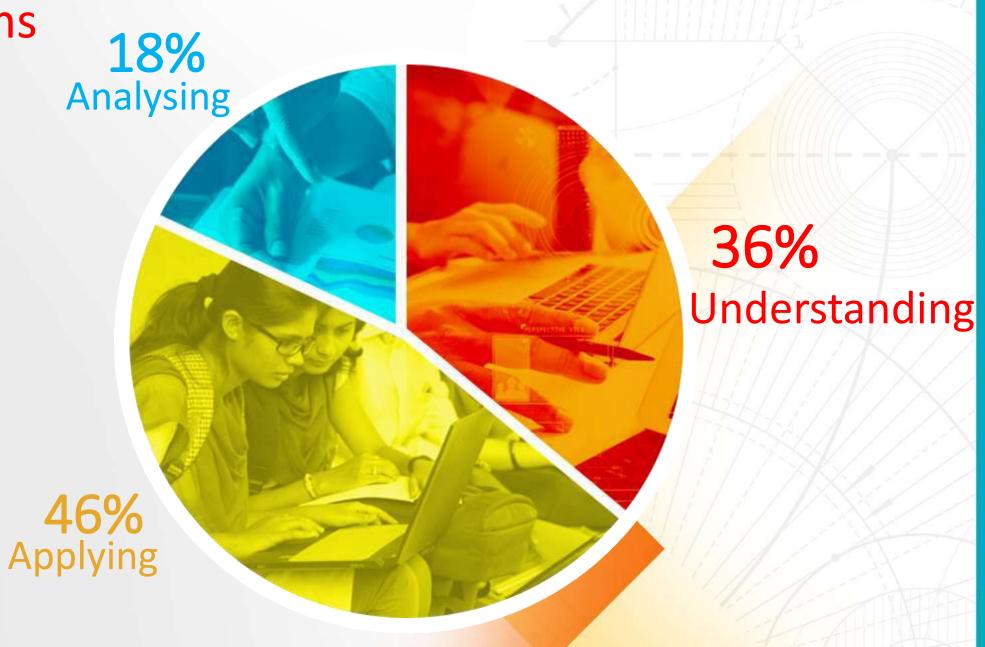
Budget of Rs. 6.00 cr approved by Council

70,000+ Students, 24,000+ Teachers and 1200+ Institutions submitted feedback.

EC approved 100 projects of Rs 50000 each for faculty members to study impact of induction



Exam Reforms



Exam Reforms

Workshops

Nine workshops Conducted on Exam Reforms for Controller of Examination, Deans and Senior Faculty members Universities and Institutions.

1600

Number of faculty trained till now

25

Number of Workshops planned in next 3 months

Faculty training

Train the trainer workshops to train faculty from **NITTTRs** and identified faculty from the workshops already conducted.

Target

10% faculty in next one year targeted to be trained through workshops.

09

Number of Workshops conducted till now



AICTE activity Point Programme



- Recommends 1000 hrs
 Activity Programme for each B.Tech student.
 - 600-700 hrs for Internship requirements
 - 300-400 hrs for Community service & Allied activities.



- Recommends 700 hrs
 Activity Programme for each Diploma student
 - 450-500 hrs for Internship activities
 - 200-250 hrs for Community service & allied activities.

Budget

Each institute to allocate 1 % of their total budget for these activities

Monitoring & Evaluation



Evaluation by faculty supervisor

Overall
Student
Performance
Analysis



Evaluation through Seminar/ Presentation



Activities for Students, Faculty & Institutions

- AICTE ICT Academy developed Internship portal. **211 institutions, 8000 students** and **142 industries** already registered.
 - 4 Internship policy workshop organised for Eastern, Western, Northern, North west and Southern regions
- O Approx. **500 Industries and 1000 Institutes** TPO and Heads participated.
 - Industries meet scheduled to register **13,000 establishments enrolled**with BOATs/BOPT at AICTE Internship portal during the workshop.
 Communication to register on portal developed by AICTE & ICT Academy
 - Two Industry meets organized at Kolkata & Pune. Around **200+ industry representatives** participated.
- MoUs with various organizations to facilitate students in getting internships.
- 5 MoU with Industries have been made mandatory for Institutions.





Training Modules During Induction of Teachers

General Orientation towards Technical Education

Inculcation of Values and Attitudes

Communication Skills

Instructional Planning & Classroom Delivery

Technology Enabled Learning and Life-long Self-learning

Effective Modes of Student Evaluation

Creative Problem Solving, Innovation and Meaningful R & D

Institutional Management & Administrative Procedures 21





Mentored Teaching

Online courses

NITTTR developed online courses for four modules and remaining modules will be developed by April 2019.

Faculty Development Programs

Around 300 Faculty Development Programs organized in collaboration with ISTE to train approx. 12,000 faculty members.

Mandatory clearance

For Incumbent teachers clearing eight modules mandatory for upward movement.



08 MoUs

Technical Universities to organize Faculty Development Program.

Five Faculty Development **Programs**

organized in thrust areas as identified by Reddy Committee (Perspective Plan).

Mandatory training

For Inductee teachers, attending one year teachers training program is mandatory.



Overview

A committee under the Chairmanship of Shri. BVR Mohan Reddy, Chairman, Board of Governors, IIT, Hyderabad and having representatives of FICCI, CII, NASSCOM, ASSOCHAM and PHD Chamber constituted on 18th October 2018 for preparing short term and medium term perspective plan.

The committee submitted report & Executive Committee (EC) on 27th

December 2018 approved

The main recommendations of the committee are:

Courses on following emerging technologies must be included:



ΑI



Data Science



IoT



Cyber Security



Robotics



Design



Quantum Computing



Block chain



AR/VR



3d printing

Greater focus on multi-disciplining courses by reducing seats in conventional disciplines and converting existing seats into these courses.

NITTTR Chandigarh Prepared curriculum of the above 9 (nine) Technologies

Workshops organized to train the faculty based on New Curriculum. So far, 8 workshops have been organized and around 400 faculty members have been trained.



Mandatory Accreditation



Mandatory for all technical institutions to have their 60% programs NBA accredited in next four years, else no extension of approval will be granted.



Approx. 48 Margdarshaks identified and trained to mentor the institutions.



Eleven institutions selected under scheme Margdarshan.



Attributes that Employers look for



Planning skills
Management skills
Organisation skills
Presentation skills
Entrepreneurial skills
Listening skills
Communication skills
ICT skills



Good appearance

Manners

Creative

Dependable

Trustworthy

Understanding

Team player

Confident

Self-motivation

Good customer service

Time management

Positive attitude

Tolerant

Hard working

Friendly

Qualification

Industry readiness - mandatory cell



Mandatory for all the intuitions to have industry institute cell.



Every institute has to sign 5 MoUs with industry.



Various organisations given presentation on how to impart soft skills to the students



Proposals of organisations examined by group of Experts.



Innovation cell

To encourage ideation, creativity amongst school and college students.



Tweaking of Indian education system to make it more suited to foster innovation-based economy.



AICTE's Innovation Mission



To Create mechanism to harness India's ability as a services-led economy for building knowledge-based and innovation-driven economy.

To promote 'Think in India' philosophy.

To facilitate commercialization of celebrated incremental and frugal innovations





Invest and Reward

IP creation.

Major Programs

Development of policy framework on Innovation & Start-ups for Indian HEIs.

Smart India Hackathon (SIH) 2019

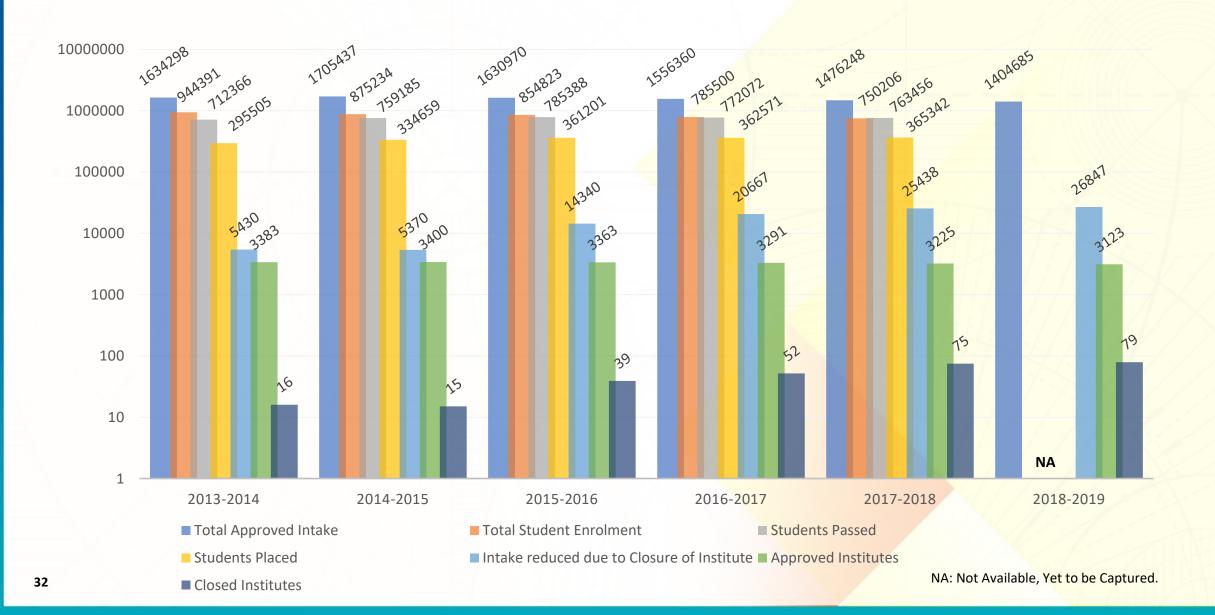
Atal Ranking of Institutions on Innovation Achievements (ARIIA)

Institution Innovation Councils (IIC) MBA/PGDM in Innovation Entrepreneurs hip & Venture Development

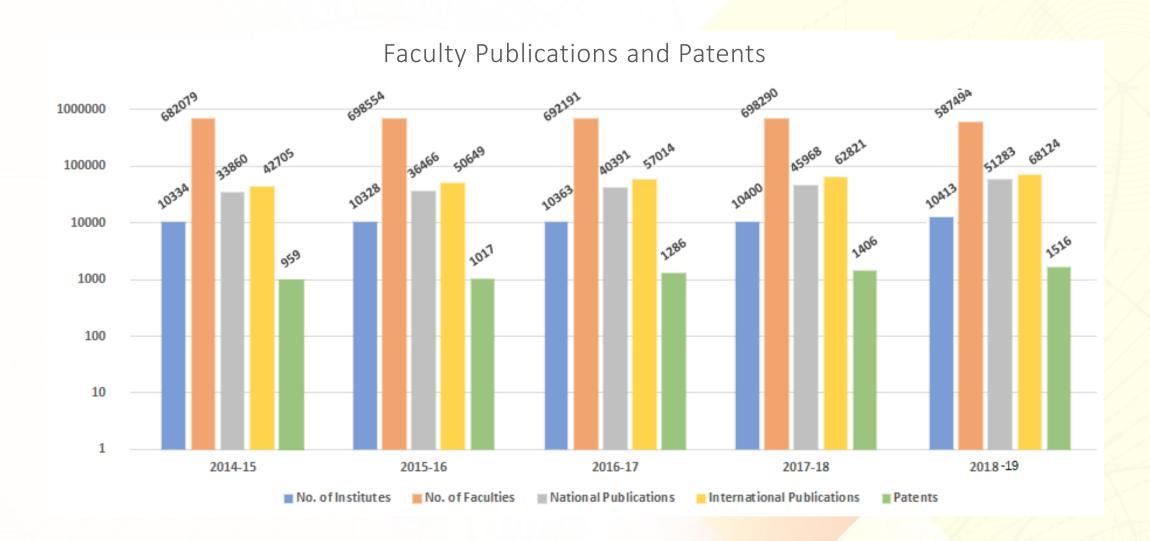
AICTE Start-up
Policy
Advocacy
Program



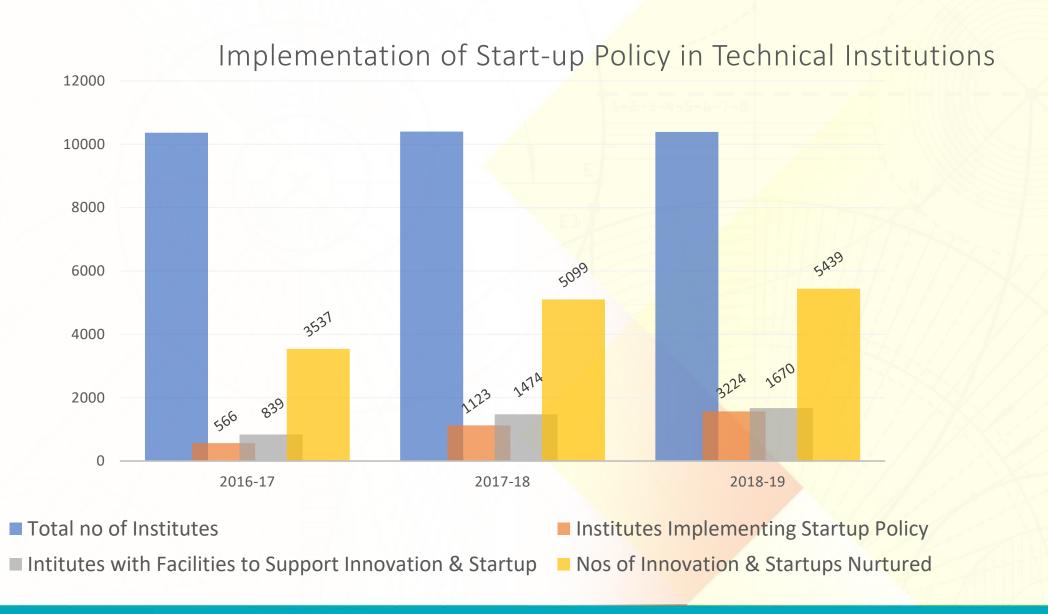
AICTE Approved Institutions, Intake, Enrolment, Passed, Placed...



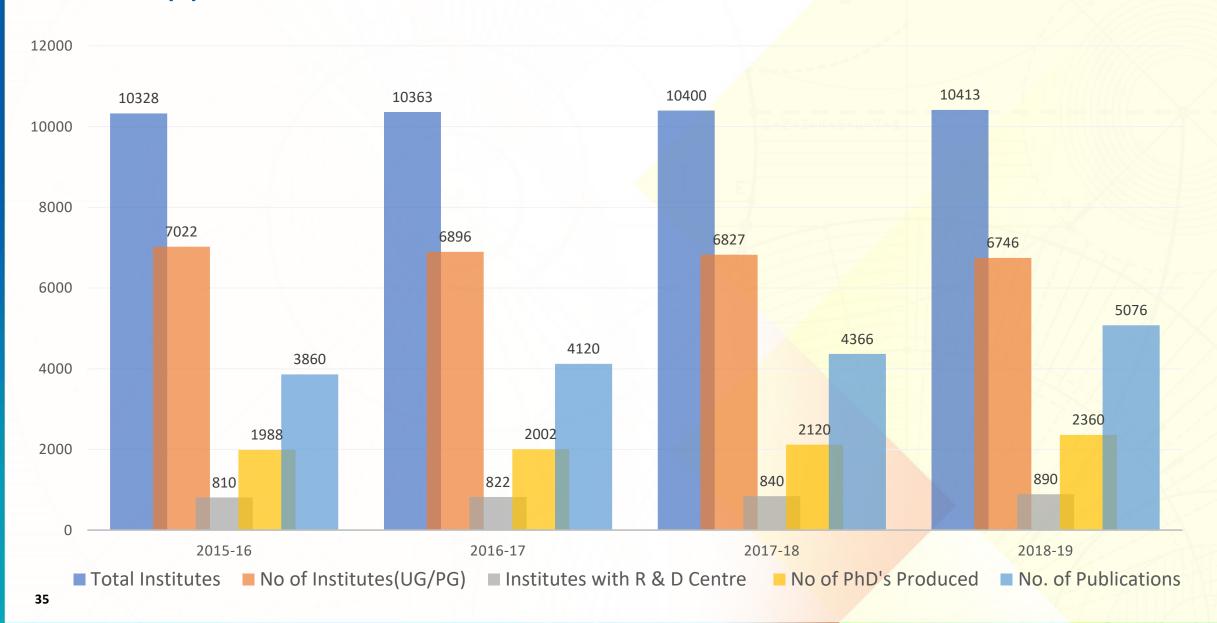
AICTE Approved Institutions: Faculty Publications and Patents



Implementation of Start-up Policy in AICTE Approved Institutions



AICTE Approved Institutes with R &D Centres and Publications



Thank you!