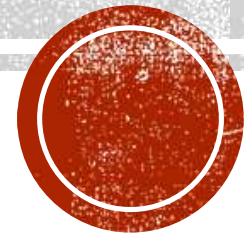


CURRICULUM IMPROVEMENT



OBJECTIVE

- Closure of courses that are obsolete with respect to present industry demands.
- To propose new courses that provide more job opportunities in present scenario.
- Suggestions for improvement of curriculum as per New Education Policy-2020.



CRITERIA CONSIDERED FOR CLOSURE OF OBSOLETE COURSES

- There were 3 criterions taken into consideration while proposing the recommendations :
 - Intake vs Admission
 - Placements
 - Although popular as per industry demand but still admissions are poor
- The data for last 5 years were taken into consideration for deriving the recommendations
- Courses with less than 30% admissions are proposed to be closed



PROPOSAL FOR CLOSURE OF OBSOLETE COURSES

| S.NO. | NAME OF THE COURSE | REMARK |
|--------------|--|---|
| <u>1</u> | 1. (104) P.G DIPLOMA IN TEXTILE DESIGN. 2. (106) P.G DIPLOMA IN CUSTOMER SERVICE MANAGEMENT. 3. (107) P.G DIPLOMA IN MARKETING AND SALES MANAGEMENT. 4. (101) P.G DIPLOMA IN ADERTISING AND PUBLIC RELATIONS 5. (112) P.G DIPLOMA IN COMPUTERISED ACCOUNTS AND TAXATION. 6. (113) P.G DIPLOMA IN WEB DESIGNING* 7. (114) P.G DIPLOMA IN COMPUTER HARDWARE AND NETWORKING.* | ADMISSIONS IN THESE BRANCHES ARE TOO LOW OR NO ADMISSIONS.SO THE MENTIONED COURSES MUST BE CLOSED. |
| <u>2</u> | (357) PAINT TECHNOLOGY (358) PLASTIC AND MOULD TECHNOLOGY (363) FOOD TECHNOLOGY | THESE BRANCHES HAVE COMPARATIVELY LESS ADMISSIONS BUT THESE ARE IN DEMAND IN INDUSTRY . SO, IT IS SUITABLE TO RUN THESE BRANCHES IN ANY ONE INSTITUTE SO THAT THE SEATS MAY GET FULL AND FACULTY CAN PROPERLY IMPART KNOWLEDGE TO THE STUDENTS. BRANCH HAS COMPARATIVELY LESS ADMISSIONS (APROX. 20%) AND THERE IS AVERAGE DEMAND IN INDUSTRY ALSO . SO, IT IS SUITABLE TO RUN THIS BRANCH IN ANY ONE INSTITUTE SO THAT THE SEATS MAY GET FULL. |
| <u>3</u> | 1. (202) PGDCA 2. (215) DIPLOMA IN MODERN OFFICE MANAGEMENT & SECRETARIAL PRACTICES | 1. IN THESE BRANCHES THERE IS AVERAGE ADMISSIONS IN SOME INSTITUTES AND IN SOME INSTITUTES IT IS VERY LESS SO T WILL BE SUITABLE TO MERGE AND RUN THESE BRANCHES IN ANY ONE INSTITUTE SO THAT THE SEATS MAY GET FULL AS WELL AS THE FACULTY MAY GET TRANFERRED TO THAT INSTITUTE. 2. PROPER MARKETING STRATEGY MUST BE ADOPTED FOR IMPROVING AWARENESS OF THE SAID COURSES AND JOB OPPORTUNITIES MUST BE NOTIFIED WHILE PROMOTION. 3.G.O MUST BE ISSUED BY STATE GOVERNEMENT FOR EQUIVALENCY ISSUE OF MOM & SP AND CCC. And for PGDCA & A level of NIELIT. *SINCE BOTH THE COURSES ARE COMPUTER RELATED SO IT MUST BE MADE MANDATORY THAT CANDIDATES APPLYING FOR THE ABOVE MENTIONED COURSES MUST BE GRADUATE IN COMPUTER .IF NOT THEN CLOSURE RECOMMENDED. |

ON THE BASIS OF CORE BRANCH AND AREA OF THAT RESPECTIVE BRANCH WE CAN REMOVE INSIGNIFICANT COURSES/SUBJECTS.

**MECHANICAL
ENGINEERING(PRODUCTION)**

MECHANICAL ENGINEERING(COMPUTER AIDED DESIGN)

MECHANICAL ENGINEERING(REFRIGERATION &
AIRCONDITIONING)

MECHANICAL ENGINEERING(AUTOMOBILE)

MECHANICAL ENGINEERING(MAINTENANCE)

MECHANICAL ENGINEERING

**MECHANICAL
ENGINEERING**



ELECTRONICS ENGINEERING

**ELECTRONICS ENGINEERING(MODERN
CONSUMER ELECTRONICS)**

**ELECTRONICS ENGINEERING(P.G.
MICROPROCESSOR AND INTERFACE)**

**ELECTRONICS ENGINEERING(MICRO
ELECTRONICS)**

ELECTRONICS ENGINEERING

**ELECTRONICS AND COMMUNICATION
ENGINEERING**

**ELECTRONICS
ENGINEERING**



CRITERIA CONSIDERED FOR INTRODUCING NEW STREAMS

There were 3 criterions taken into consideration while proposing the recommendations:

- Courses that can be taught with available resources (infrastructure & faculties)
- Courses that need new resources (infrastructure & faculties)
- Geographical presence (One District One Product)
- New Education Policy 2020



COURSES WHICH CAN RUN WITH AVAILABLE RESOURCES (EXISTING INFRASTRUCTURE & EXISTING FACULTY)

Computer Science and IT branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|--------------|--|--|
| 1. | P.G. DIPLOMA IN DATA SCIENCE (ONE YEAR) | <ul style="list-style-type: none">• Lucknow• Ghaziabad• Gautam Buddha Nagar• Kanpur |
| 2. | P.G. DIPLOMA IN MACHINE LEARNING (ONE YEAR) | <ul style="list-style-type: none">• Lucknow• Ghaziabad• Gautam Buddha Nagar• Kanpur |
| 3. | P.G. DIPLOMA IN CLOUD COMPUTING (ONE YEAR) | <ul style="list-style-type: none">• Lucknow• Ghaziabad• Gautam Buddha Nagar• Kanpur |

COURSES WHICH CAN RUN WITH AVAILABLE RESOURCES (EXISTING INFRASTRUCTURE & EXISTING FACULTY)

Computer Science and IT branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|--------------|--|--|
| 4. | P.G. DIPLOMA IN INTERNET OF THINGS (IoT) (ONE YEAR) | <ul style="list-style-type: none">• Lucknow• Ghaziabad• Gautam Buddha Nagar• Kanpur |
| 5. | P.G. DIPLOMA IN BIG DATA (ONE YEAR) | <ul style="list-style-type: none">• Lucknow• Ghaziabad• Gautam Buddha Nagar• Kanpur |
| 6. | P.G. DIPLOMA IN ARTIFICIAL INTELLIGENCE (ONE YEAR) | <ul style="list-style-type: none">• Lucknow• Ghaziabad• Gautam Buddha Nagar• Kanpur |

COURSES WHICH CAN RUN WITH AVAILABLE RESOURCES (EXISTING INFRASTRUCTURE & EXISTING FACULTY)

Computer Science and IT branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|--------------|---|--|
| 7. | P.G. DIPLOMA IN COMPUTER SIMULATED ANIMATION (ONE YEAR) | <ul style="list-style-type: none">• Lucknow• Ghaziabad• Gautam Buddha Nagar• Kanpur |
| 8. | P.G. DIPLOMA IN VIRTUAL AND AUGMENTED REALITY (ONE YEAR) | <ul style="list-style-type: none">• Lucknow• Ghaziabad• Gautam Buddha Nagar• Kanpur |
| 9. | P.G. DIPLOMA IN BLOCKCHAIN TECHNOLOGY (ONE YEAR) | <ul style="list-style-type: none">• Lucknow• Ghaziabad• Gautam Buddha Nagar• Kanpur |
| 10. | P.G. DIPLOMA IN DIGITAL MARKETING (ONE YEAR) | <ul style="list-style-type: none">• Lucknow• Ghaziabad• Gautam Buddha Nagar• Kanpur |

COURSES WHICH CAN RUN WITH AVAILABLE RESOURCES (EXISTING INFRASTRUCTURE & EXISTING FACULTY)

Civil Engineering and Architecture branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|--------------|--|---|
| 11. | DIPLOMA IN CIVIL ENGINEERING (WITH MINOR SPECIALIZATION IN SUSTAINABILITY ENGINEERING) (THREE YEAR) | <ul style="list-style-type: none">• Agra• Aligarh• Bareilly• Jhansi• Kanpur• Lucknow• Moradabad• Rampur• Saharanpur |
| 12. | DIPLOMA IN ARCHITECTURAL ASSISTANTSHIP (WITH MINOR SPECIALIZATION IN GREEN MATERIALS & TECHNOLOGY) (THREE YEAR) | <ul style="list-style-type: none">• Agra• Aligarh• Bareilly• Jhansi• Kanpur• Lucknow• Moradabad• Rampur• Saharanpur |



COURSES WHICH CAN RUN WITH AVAILABLE RESOURCES (EXISTING INFRASTRUCTURE & EXISTING FACULTY)

Civil Engineering and Architecture branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|--------------|--|---|
| 13. | DIPLOMA IN CIVIL ENGINEERING (WITH MINOR SPECIALIZATION IN STRATEGIC CIVIL INFRASTRUCTURE) (THREE YEAR) | <ul style="list-style-type: none">• Agra• Aligarh• Bareilly• Jhansi• Kanpur• Lucknow• Moradabad• Rampur• Saharanpur |
| 14. | DIPLOMA IN ARCHITECTURAL ASSISTANTSHIP (WITH MINOR SPECIALIZATION IN SMART CITIES) (THREE YEAR) | <ul style="list-style-type: none">• Agra• Aligarh• Bareilly• Jhansi• Kanpur• Lucknow• Moradabad• Rampur• Saharanpur |
| 15. | DIPLOMA IN ARCHITECTURAL ASSISTANTSHIP (WITH MINOR SPECIALIZATION IN GREEN HOUSE TECHNOLOGY) (THREE YEAR) | <ul style="list-style-type: none">• Agra• Aligarh• Bareilly• Jhansi• Kanpur• Lucknow• Moradabad• Rampur• Saharanpur |

COURSES WHICH CAN RUN WITH AVAILABLE RESOURCES (EXISTING INFRASTRUCTURE & EXISTING FACULTY)

Civil Engineering , Mechanical , Electronics and Architecture branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|--------------|--|---|
| 16. | P.G. DIPLOMA IN AUTOCAD & 3D VISUALIZER (ONE YEAR) | <ul style="list-style-type: none">• Ghaziabad• Gautam BuddhaNagar• Lucknow• Kanpur• Agra• Aligarh• Bareilly• Moradabad |
| 17. | DIPLOMA IN ELECTRONICS ENGINEERING (WITH MINOR SPECIALIZATION IN ROBOTICS) (THREE YEAR) | <ul style="list-style-type: none">• Gautam buddha nagar• Meerut• Ghaziabad |



COURSES WHICH NEED NEW RESOURCES (NEW INFRASTRUCTURE & NEW FACULTY)

Geographically Preferred

Mechanical Engineering/ Electronics Engineering branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|--|---|
| 18. | P.G. DIPLOMA IN MECHANICAL BEHAVIOR OF MATERIALS (ONE YEAR) | <ul style="list-style-type: none">• Agra• Aligarh• Jhansi• Kanpur• Lucknow• Chitrakoot |
| 19. | P.G. DIPLOMA IN MECHATRONICS (TWO YEAR) | <ul style="list-style-type: none">• Gautam buddha nagar• Meerut• Ghaziabad |
| 20. | P.G. DIPLOMA IN BRASS & METALWARE TECHNOLOGY (ONE YEAR) | <ul style="list-style-type: none">• Moradabad• Agra• Aligarh• Ghaziabad |
| 21. | P.G. DIPLOMA IN G.I.S. AND REMOTE SENSING (ONE YEAR) | <ul style="list-style-type: none">• Lucknow• Kanpur |

COURSES WHICH NEED NEW RESOURCES (NEW INFRASTRUCTURE & NEW FACULTY)

Geographically Preferred

Pharmacy Branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|---------------------------------------|--|
| 22. | DIPLOMA IN PHARMACY (TWO YEAR) | <ul style="list-style-type: none">• Basti• Azamgarh• Deoria• Mirzapur• Ghazipur• Gorakhpur• Handia |

Chemical Engineering Branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|--|--|
| 23. | DIPLOMA IN CHEMICAL PROCESS ENGINEERING (THREE YEARS) | <ul style="list-style-type: none">• Mathura• Agra• Ghaziabad• Noida |



COURSES WHICH NEED NEW RESOURCES (NEW INFRASTRUCTURE & NEW FACULTY)

Geographically Preferred

Chemical Engineering Branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|--|--|
| 24. | P.G. DIPLOMA IN FRAGRANCE OIL AND PERFUMARY TECHNOLOGY (TWO YEAR) | <ul style="list-style-type: none">• Kannauj• Noida |
| 25. | P.G. DIPLOMA IN CEMENT TECHNOLOGY (TWO YEAR) | <ul style="list-style-type: none">• Sonbhadra• Mirzapur |
| 26. | P.G. DIPLOMA IN INDUSTRIAL SUGAR ENGINEERING (ONE YEAR) | <ul style="list-style-type: none">• Meerut• Saharanpur• MuzaffarNagar• Shamli• Bijnore• Bulandshahr• Badaun• Bareilly |

COURSES WHICH NEED NEW RESOURCES (NEW INFRASTRUCTURE & NEW FACULTY)

Geographically Preferred

Chemical Engineering Branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|--|---|
| 27. | P.G. DIPLOMA IN SOAP MANUFACTURING AND PROCESS ENGINEERING (ONE YEAR) | <ul style="list-style-type: none"> • Kanpur • Agra • Ghaziabad • Meerut |

Textile Branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|--|--|
| 28. | DIPLOMA IN HANDLOOM TECHNOLOGY (THREE YEAR) | <ul style="list-style-type: none"> • Mau • Meerut • Bhadohi • Azamgarh • Varanasi • Etawah • Agra |
| 29. | DIPLOMA IN CARPET TECHNOLOGY (THREE YEAR) | <ul style="list-style-type: none"> • Bhadohi • Bareilly • Agra • Etawah • Mirzapur |

COURSES WHICH NEED NEW RESOURCES (NEW INFRASTRUCTURE & NEW FACULTY)

Geographically Preferred

Computer Science and IT branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|---|--|
| 30. | P.G DIPLOMA IN CYBER SECURITY (TWO YEAR) | <ul style="list-style-type: none">• Lucknow• Ghaziabad• Gautam Buddha Nagar• Kanpur |

Fine Arts branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|--|---|
| 31. | DIPLOMA IN FINE ARTS (THREE YEAR) | <ul style="list-style-type: none">• Lucknow• Ghaziabad• Prayagraj |



COURSES WHICH NEED NEW RESOURCES (NEW INFRASTRUCTURE & NEW FACULTY)

Geographically Preferred

Printing technology

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|--|---|
| 32. | P.G. DIPLOMA IN PACKAGING TECHNOLOGY (TWO YEAR) | <ul style="list-style-type: none">• Varanasi• Gautam buddha nagar• Meerut |

Food Technology

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|---|--|
| 33. | P.G. DIPLOMA IN FOOD PROCESSING TECHNOLOGY (TWO YEARS) | <ul style="list-style-type: none">• Ghaziabad• Lucknow• Prayagraj• Noida• Meerut |



COURSES WHICH NEED NEW RESOURCES (NEW INFRASTRUCTURE & NEW FACULTY)

Geographically Preferred

Biotechnology Engineering Branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|--|--|
| 34. | DIPLOMA IN MEDICAL LAB TECHNOLOGY (TWO YEARS) | <ul style="list-style-type: none"> • Gautam buddha nagar • Lucknow • Kanpur |

Aviation Branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|--|---|
| 35. | P.G. DIPLOMA IN AVIATION HOSPITALITY (ONE YEAR) P.G. DIPLOMA IN AIRLINE & AIRPORT MANAGEMENT | <ul style="list-style-type: none"> • Varanasi • Gautam buddha nagar • Ghaziabad • Aligarh |
| 36. | P.G. DIPLOMA IN DRONE TECHNOLOGY (ONE YEAR) | <ul style="list-style-type: none"> • Gautam buddha nagar • Ghaziabad • Lucknow |



COURSES WHICH NEED NEW RESOURCES (NEW INFRASTRUCTURE & NEW FACULTY)

Geographically Preferred

Mechanical / Metallurgy Engineering Branch

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|---|---|
| 37. | DIPLOMA IN METALLURGY ENGINEERING (THREE YEARS) | <ul style="list-style-type: none">• Moradabad• Agra• Aligarh• Ghaziabad• Mirzapur• Hathras |

Mechanical Engineering

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|---|---|
| 38. | P.G. DIPLOMA IN WOODEN CARVING TECHNOLOGY (TWO YEARS) | <ul style="list-style-type: none">• Sahranpur• Bijnor, |



COURSES WHICH NEED NEW RESOURCES (NEW INFRASTRUCTURE & NEW FACULTY)

Geographically Preferred

Tourism & Travel Management

| S.NO. | PROPOSED COURSE AND DURATION | PROPOSED LOCATION |
|-------|---|---|
| 39. | DIPLOMA IN EVENT MANAGEMENT (ONE YEAR) | <ul style="list-style-type: none">• Lucknow• Prayagraj• Varanasi• Agra• Ayodhya• Mathura• Kanpur• Meerut |
| 40. | DIPLOMA IN HOSPITALITY MANAGEMENT (THREE YEAR) | <ul style="list-style-type: none">• Lucknow• Prayagraj• Varanasi• Agra• Ayodhya• Mathura• Kanpur• Meerut |



NEW EDUCATION POLICY - 2020

The New Education Policy 2020 emphasis on:

- Outcome based approach
- Multiple entry and multiple exit can be achieved iff model curriculum is adopted
- Introduce emerging courses related to Artificial Intelligence etc in curriculum



RECOMMENDATIONS BY UNNAYAN COMMITTEE

- 1.Recommendation on closure of 7 courses as mentioned on slide 4
2. New courses as described in earlier slides should be opened
3. The courses in which less admissions occur must be merged to run in one or two institutes with full strength and faculty.
- 4.G.O for addressing the issue of MoM and PGDCA courses with NIELIT CCC & A-level moreover promotional strategy must be adopted to make the students aware of the courses.
- 5.Diploma courses must be run in core stream only with minor specialization.
- 6.There must exist curriculum-industry interface and zone wise center of excellence.
- 7.Strategic plan to be developed to run geographically preferred courses.
- 8.As per NEP-2020, model curriculum must be adopted in diploma courses.

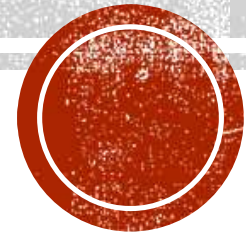


RECOMMENDATIONS FROM THE COMMITTEE MEETING

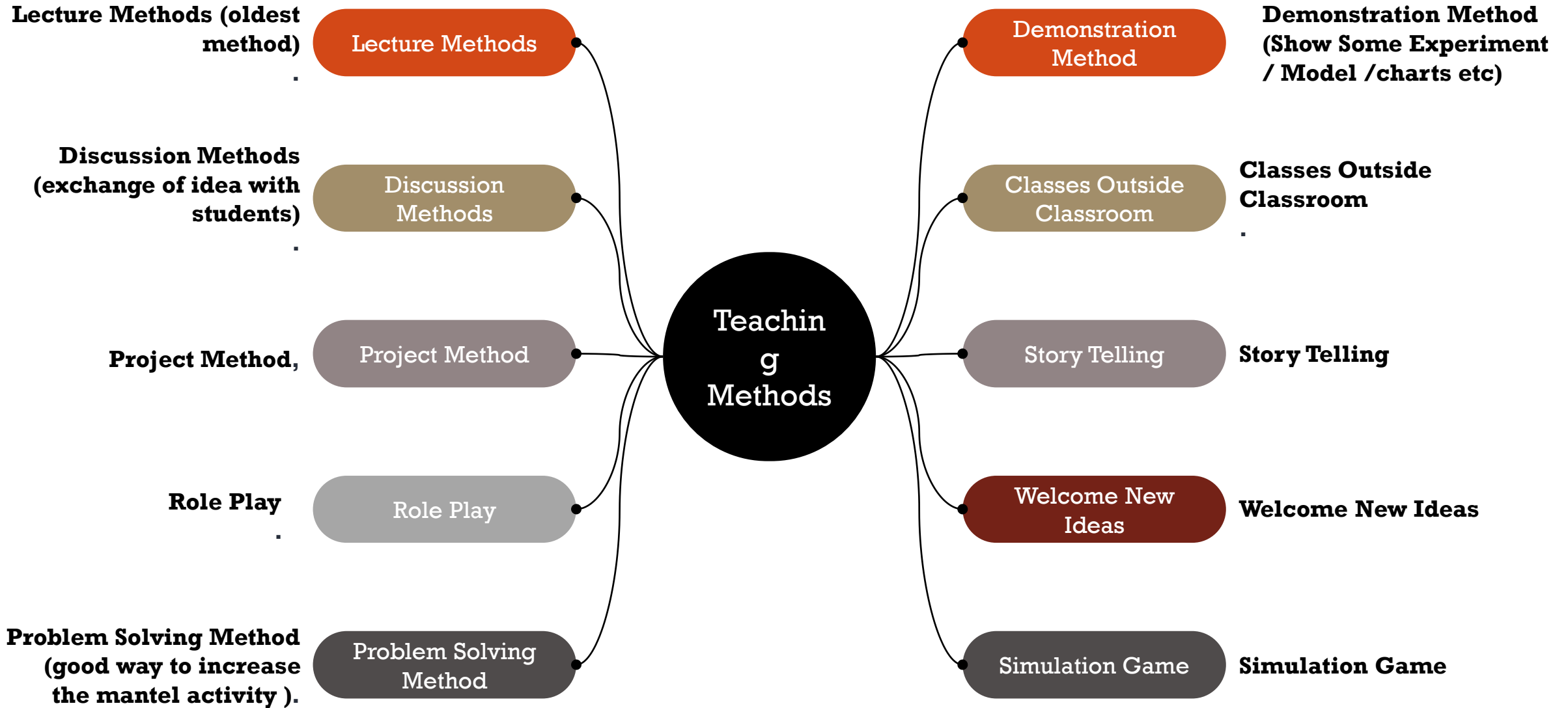
1. More factors should be considered for proposal of closure of a course rather than just lack of admissions
2. Any course that is being proposed for closure should first be curtailed to certain colleges, monitored for some time and then final decision should be taken.
3. Courses should be tweaked as per industry needs in consultation with the them
4. New marketing strategies should be opted for spreading awareness of the course in schools among the students.
5. Orientation of students should be done once they join to make them understand their journey ahead.
6. Labs should be upgraded as per curriculum.
7. Lab supporting staff should be appointed for regular maintenance.
8. Focus on practical training should be emphasized by bringing industry closer to campuses.
9. Awareness of certificate courses that can add value should be given to the students.
10. Soft skills should be made a part of curriculum in all 3 years.



CURRICULUM IMPLEMENTATION, ASSESSMENT NORMS AND MONITORING SYSTEMS



EFFECTIVE TEACHING METHODS TO BE ADOPTED



TOOLS AND TECHNIQUES OF EVALUATION

| Tools | Techniques |
|--------------------|-------------------|
| Portfolio | Observation |
| Checklist | Assignment |
| Rating Scale | Project |
| Anecdotal Recorder | Interview |
| Rubrics | Debate |
| Schedules | Test/ Exam |
| Questionnaires | |



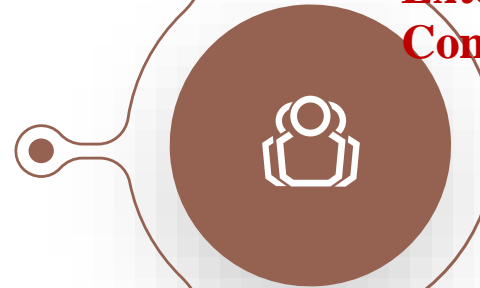
Academic committee will be responsible for formulating the policies, providing the resource support and guidance to the institutions, carry out the research and suggest the remedial measures in solving the problems

Mechanism For Curriculum Implementation



Institution Curriculum Implementation Unit (ICIU)

shall be set-up in every polytechnic. This unit will be responsible for institutional planning, monitoring curriculum implementation and to maintain the records.



External Academic Monitoring Committee (EAMC)

In order to ensure proper implementation of the curriculum, a committee will be formed. The members of the committee will be from other institutions.



Internal Academic Monitoring Committee (IAMC)

The ex-officio members of the ICIU will form the committee for internal monitoring. This committee is expected to follow the guidelines provided by Academic Committee through IRDT and ensure its implementation for all the departments in the institute.

S

STRENGTHS

- 147 GOVERNMENT INSTITUTES
- 19 AIDED INSTITUTE
- 1266 PRIVATE INSTITUTE

WEAKNESSES

- Vacant Posts
- Labs / Practical work
- Library
- Job Responsibility
- Computational Facilities
- Monitoring System
- Work Culture

W

SWOT

T

THREATS

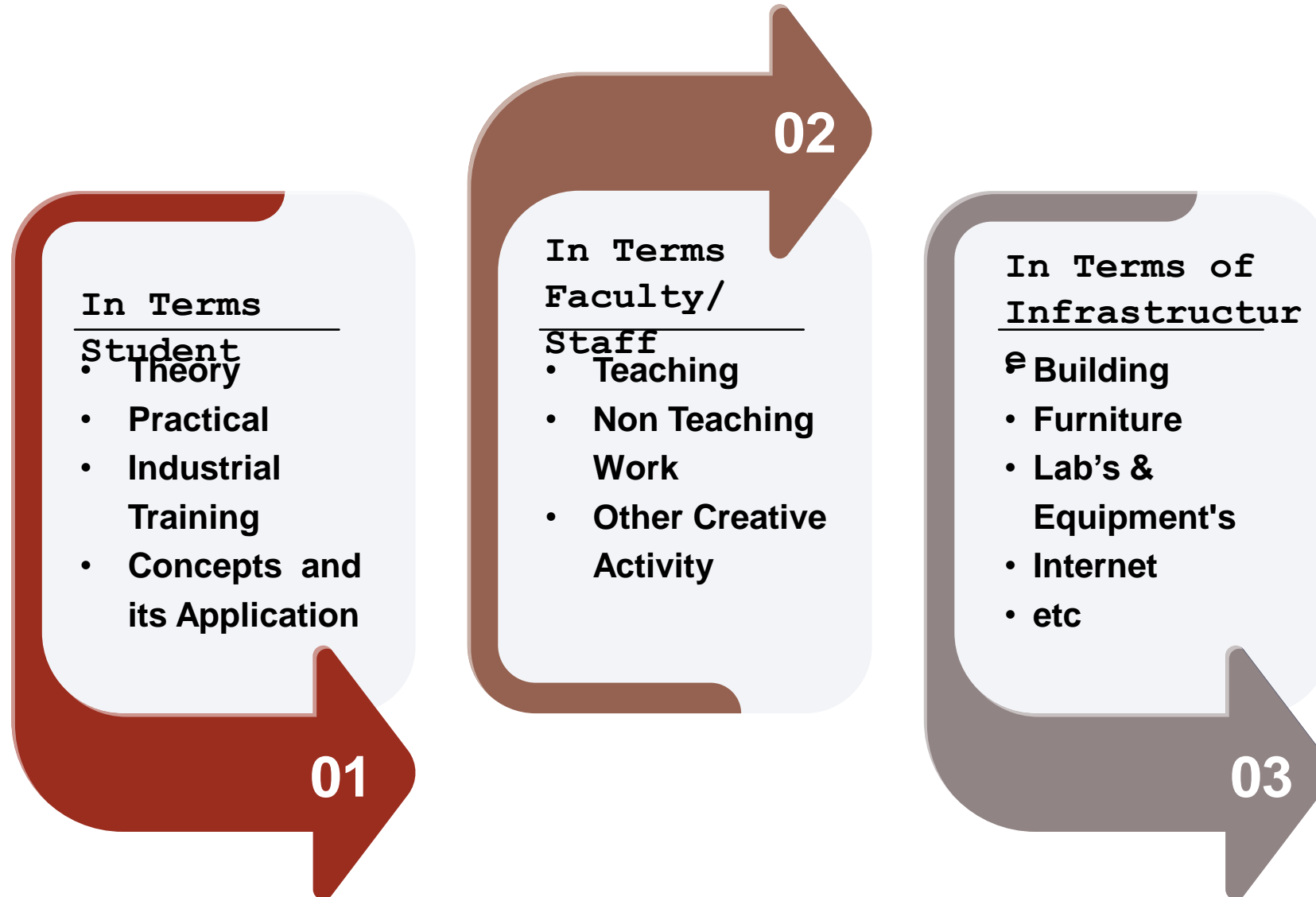
Resistance for
Implementing
changes

OPPORTUNITIES

To Improve Work
Culture In
Department

O

EVALUATION PROCESS



RECOMMENDATIONS BY UNNAYAN COMMITTEE

1. शैक्षिक पदों की रिक्ति दूर करना - जब तक आयोग से चयन नहीं हो जाता है तब तक 11 माह के अनुबंध से लेक्चरर रखे जाय।
2. कार्यालय हेतु - नियमित चयन होने तक वैकल्पिक व्यवस्था आउटसोर्सिंग स्टाफ उपलब्ध कराया जाय
3. लैब सहायक के पद स्वीकृत किया जाय - लैब के कुशल संचालन हेतु लैब सहायक के पद स्वीकृत किया जाय / कार्मिक उपलब्ध कराये जाय
4. चतुर्थ श्रेणी कार्मिक - प्रति संस्था में चतुर्थ श्रेणी के आवश्यक कार्मिक उपलब्ध कराये जाय (जैसे सफाई कार्मिक , लैब अनुचर , कार्यालय हेतु चतुर्थ श्रेणी कार्मिक) हर संस्था में वैकल्पिक व्यवस्था तक आउट सोर्सिंग स्टाफ उपलब्ध कराया जाय
5. सभी पदों के कार्य एवं दायित्वों का निर्धारण किया जाय
6. हर लैब हेतु स्टैण्डर्ड लैब मैनुअल्स का निर्माण कराया जाय
7. हर लैब हेतु लैब सहायक आवश्यक रूप से उपलब्ध कराया जाय
8. लैब हेतु आवश्यक उपकरण उपलब्ध कराया जाय
9. पॉलिटैक्निक संस्थाओ की विद्वुत आपूर्ति शहरी फीडर के करायी जाय जिससे प्रयोगात्मक कार्य समय से संपन्न हो सके
10. सभी संस्थाओ का सभी प्रकार का डाटा ऑनलाइन फीड कराया जाय व एक स्थान पर स्टोर किया जाय
11. प्रदेश स्तर पर विभाग का एक कंप्यूटर / आईटी सेल बनाया जाय
12. Centralised डाटा का access विभिन्न आवंटित/अधिकृत अधिकारिओ द्वारा प्रयोग करके सूचना प्राप्त की जा सकती है
13. व्यवस्था विभिन्न घटकों के साथ समन्वय से डिजाईन की जा सकती है
14. सभी प्रकार की सूचना एक स्थान पर स्टोर की जाय
15. इस प्रकार की व्यवस्था से विभाग के विभिन्न घटकों के बीच सूचना का आदान प्रदान पारदर्शी प्रक्रिया एवं एक मजबूत मोनिटरिंग सिस्टम बनाने में सहायक होगी
16. क्या हम ऐसा सिस्टम बना सकते है जिसमे समय के अनुसार डिप्लोमा सेक्टर में सुधार आ सके
17. क्या हम लोग संस्थाओ में प्रयोगात्मक कार्य की गुणवत्ता सुधार हेतु कुछ योगदान दे सकते है
18. क्या हम समय के अनुसार तकनीकी ज्ञान छात्रों को दे सकते है जो भविष्य के कर्णधार है
19. क्या हम लोग उत्तर प्रदेश की तकनीकी शिक्षा विभाग में वर्क कल्चर में सुधार के लिए कुछ कर सकते है

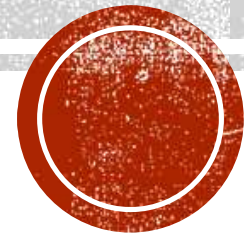


RECOMMENDATIONS FROM THE COMMITTEE MEETING

1. At least one computer operator should be appointed in each college
2. A new examination system should be created for capturing both theoretical and practical aspect.
3. New assessment norms needs to be created and pushed through department.
4. Strong Monitoring & Evaluation framework needs to be designed and implemented.
5. Automation of processes should be done so that everything can be monitored easily.
6. Outcome based examination system should be implemented.
7. Micro projects should be introduced to enhance practical experience of the students.
8. Provide autonomy to Board of Technical Education for running the systems.
9. Provide more funds to BTE for running the entire system.
10. Upskill faculty members on various topics to improve learning outcomes.



FACULTY DEVELOPMENT & TRAININGS



PROPOSED PLAN ACTIVITIES

- Create simple feedback channels with staff, industry experts. Outcome based Training and learning
- Encourage use of Information and Communication technology (ICT) to provide access to content, professional development and professional learning communities
- Coordination with NITTT, Chandigarh, NITTTR Bhopal, NITTTR Kolkata, AICTE Training And Learning (ATAL) Academy
- Collaboration with National/International Universities for **advance courses trainings** for Faculty/Principal/Administrator
- Collaboration with IITs/IITs/NITs institutes for training/workshop in Incubation Centre for various streams
- Annual Technical Magazine/e-Newsletter Publication



TRAINING GUIDELINES

Newly Joined/Existing Faculties having less than 5 years of experience on 01st March 2019 are required to complete 8 NITTT Modules.

1. Orientation towards Technical Education & Curriculum Aspects
2. Professional Values, Ethics, Ecology & Sustainable Development
3. Communication Skills, Modes and Knowledge Dissemination
4. Instructional Planning and Delivery
5. Technology Enabled Learning and Lifelong Self-learning
6. Effective Modes of Student Assessment and Evaluation
7. Creative Problem Solving, Innovation and Meaningful R&D
8. Miscellaneous Aspects (Institutional Management & Administrative Procedures)



PROPOSED FACULTY DEVELOPMENT PROGRAMMES FOR F.Y. 2022-23

- ❖ **Best Teaching Practices**
- ❖ **Art of effective Teaching: mentoring and Holistic Development**
- ❖ Teaching Methodology
- ❖ Ethical Values in Academics
- ❖ Assessment and Evaluation
- ❖ **Effective Use of ICT in Education**
- ❖ Management of Online Teaching and Learning System with MOOCS/ Moodle
- ❖ **Life Skills for Educators**
- ❖ Hands-On Workshop Innovative Design & Manufacturing Education
- ❖ Advanced Leadership Skills
- ❖ Advanced Presentation Skills
- ❖ Communication Skills
- ❖ Generate learning designs for teaching using visualizations
- ❖ Design virtual laboratory experiments.
- ❖ Facilitate learner-centered teaching and learning in classroom
- ❖ Communication System Design Workshop
- ❖ **Creative Thinking**
- ❖ **Decision-Making Skills**
- ❖ Digital Literacy Program
- ❖ **Emotional Intelligence**
- ❖ How to manage Stress among student
- ❖ Experiential Engineering Workshop
- ❖ Outcome Based Assessment
- ❖ Effective Management and Utilization of Engineering Laboratories



PROPOSED FACULTY DEVELOPMENT PROGRAMMES FOR F.Y. 2022-23

- ❖ Additive Manufacturing
- ❖ Current Trends in Air Conditioning
- ❖ **MATLAB in mechanical Engineering**
- ❖ Tool Engineering
- ❖ Laser and its industrial applications
- ❖ Applications of ultrasonics in engineering and medical field
- ❖ Application of electrostatic
- ❖ Fuzzy Mathematics programming
- ❖ Mathematical Developments in Cryptography and Data Science
- ❖ Applications of Mathematics in Science & Engineering
- ❖ **Financial management**
- ❖ Institutional Management
- ❖ Trends in Machine Learning
- ❖ **Cyber Security & IT Laws in India**
- ❖ **Internet of Things (IoT) & it's Future**
- ❖ **EMBEDDED SYSTEM DESIGN**
- ❖ Green Chemistry & Sustainable Industrial Development
- ❖ Advanced Energy Materials
- ❖ Electrical Personal Protective Equipment
- ❖ Drive & Automation Technology



PROPOSED WEBINARS/SEMINAR/ONE DAY WORKSHOP FOR F.Y. 2022-23

- ❖ Approval Process of AICTE
- ❖ Cyber Security Awareness
- ❖ Awareness Program for Apprenticeship Training
- ❖ Brain-storming Workshop on Teaching Pedagogy
- ❖ Mental Health Awareness Program
- ❖ Woman Empowerment
- ❖ Gender Sensitization and Prevention of Sexual Harassment of Women at Workplace
- ❖ Yoga & Meditation
- ❖ Use of ICT in Education
- ❖ Academia industry Interface Workshop



THANK YOU

