Thrust Areas

- 1. Artificial Intelligence
- 2. Internet of Things (IoT)
- 3. Block chain
- 4. Machine Learning
- 5. Robotics
- 6. Quantum Computing
- 7. Data Sciences
- 8. Cyber Security
- 9. 3D Printing and Design
- 10. Augmented Reality (AR)/ Virtual Reality (VR)
- 11. Drones

Engineering

- 1. Systems Engineering
- 2. Sustainability Engineering
- 3. Computer Science; Biology
- 4. Energy Engineering
- 5. Green Technology
- 6. Electrical; Computer Engineering
- 7. Strategic Civil Infrastructure
- 8. Coastal; Offshore Engineering
- 9. Smart Cities
- 10. Waste Management Technology
- 11. GIS; Remote Sensing
- 12. Construction Technology
- 13. Engineering Law
- 14. Climate Sciences
- 15. Mining; Mineral Processing
- 16. Underground Space Utilization
- 17. Bio Similar Technology
- 18. Genome Engineering; Technology
- 19. Precision Health Technology
- 20. Control Systems; Sensors Technology
- 21. Infrastructure Engineering
- 22. Environmental Geo-technology
- 23. Earthquake Engineering
- 24. Waterways Transport Engineering
- 25. Lean Construction Technology
- 26. Aqua-food technology
- 27. Organ Printing Technology
- 28. Nutrition Technology
- 29. Drug Engineering
- 30. Cellular Agriculture
- 31. Sensors Technology
- 32. Electric Vehicles
- 33. Energy Storage
- 34. Magnetic Levitation
- 35. Photonics
- 36. Low cost desalination
- 37. Ontogenetic

- 38. Wearable Devices
- 39. Gamification
- 40. Telemedicine
- 41. Molecular Manufacturing
- 42. Alternate Fuels
- 43. Real Time Translation
- 44. Biotechnology
- 45. Biomimetic
- 46. Novel Materials
- 47. Lab on Chip
- 48. Cloud Technology
- 49. Digital Holography & 3D Imaging
- 50. Immersive Virtual Reality
- 51. Human Centre Computing
- 52. Design Thinking
- 53. Lab/Incubators/Prototype Lab, 3D Printers for Prototyping dstudent ideas) Consulting
- 54. Mining and Data analytics
- 55. Fog Computing
- 56. Digital Forensics
- 57. Digital Currency

Management

- 1. Technology Management
- 2. Business Analytics
- 3. Six Sigma in Quality Management
- 4. Engineering Management
- 5. Innovation Management
- 6. Supply Chain Resilience
- 7. Heritage Management
- 8. Project Management
- 9. Operations Management
- 10. Organizational Behavior
- 11. Strategic Planning
- 12. Management Information System
- 13. Social Enterprise Management
- 14. Talent Management
- 15. Risk Management

Arts & Craft

- 1. Sculpture
- 2. Animation
- 3. Ceramics
- 4. Metal Craft
- 5. Photography
- 6. Visual Communication
- 7. Communication Design
- 8. Illustration
- 9. Painting
- 10. Mural

Design & Media

- 1. Animation Film Design
- 2. Apparel Design
- 3. Ceramic; Glass Design
- 4. Design for Retail Experience
- 5. Digital Game Design
- 6. Film and Video Communication
- 7. Furniture and Interior Design
- 8. Graphic Design
- 9. Information Design
- 10. Interaction Design
- 11. Lifestyle Accessory Design
- 12. New Media Design
- 13. Photography Design
- 14. Product Design
- 15. Textile Design
- 16. Toy; Game Design
- 17. Transportation; Automobile Design
- 18. Universal Design
- 19. Fashion Communication
- 20. Design thinking

<u>Life Skills Management</u>

- 1. Productivity Enhancement
- 2. Capacity Building
- 3. Leadership Excellence
- 4. Emotional Intelligence
- 5. Team-building and Coordination
- 6. Perception & Decision Making
- 7. Training for Social Connectedness and Inspiration
- 8. Personal Effectiveness
- 9. Stress Management
- 10. ROAD Response Effectiveness, Organizing Self, Attitudinal Shift, Decision Making
- 11. Developing Consciousness (Yoga and Meditation)
- 12. Problem Solving
- 13. Execution Planning
- 14. Execution implementation
- 15. Impact of social media
- 16. Comparative/Transcultural Linguistics
- 17. Human value ethics
- 18. Health and Happiness
- 19. Competency Mapping

NEP 2020 Implementation (New!)

- 1. Leadership FDP:
 - Sustainable Change Management
 - U.S Baldrige Education Performance
 - **Excellence Framework**
 - Community Service Importance
- 2. Project Management
- 3. Risk Management
- 4. Soft Skills Excellence:
 - Leadership Excellence
 - Effective Decision Making
 - Effective Time management
 - Effective Teamwork
 - Effective Project Management
- NEP 2020 Implementation Sharing Successes and Failures

Mechanical Engineering

- 1. Machining & Micro Machining Processor
- 2. Simulation technique
- 3. Digital Manufacturing technology
- 4. Precision manufacturing
- 5. Robotic Process automation

Civil Engineering

- 1. Sustainable construction technology
- 2. Automation in civil engineering
- 3. Ground Improvement techniques
- 4. Numerical Modelling & soil structure interaction
- 5. Geotechnical earthquake Eng.

Electronics Engineering

- 1. Satellite Navigation system
- 2. Speech signal processing
- 3. Micro electronics
- 4. Optical communication
- 5. Cognitive Sensor Network
- 6. Nano Technology, materials & science
- 7. Sensor network for agriculture management
- 8. Clean Eng. Materials

Other innovative, emerging thrust areas