

## SECTION-X

### *(Interdisciplinary and Special Engineering Fields and Leadership in Academia, R&D and Industry)*

#### ACADEMIA

S.No.	Name	Year of birth	Specialization
1.	Acharya, D	1949	Production-Inventory Systems, Logistics and Supply Chain Management
2.	Agarwal, GC	1930	Photogrammetry, Cartography & Remote Sensing, Educational Technology
3.	Anand, Sneha	1949	Biomedical Instrumentation and Rehabilitation Engineering
4.	Dube, SK	1947	Coastal Engineering and Storm Surge Prediction
5.	Ghosh, Ambarish	1973	Quantum fluids; Nanoscale optical and magnetic manipulation
6.	Guha, SK	1940	Biomedical Engineering, Medical Physiology
7.	Gupta, Yashwant	1962	Radio Astronomy
8.	Jain, PK	1964	Manufacturing Systems and Engineering; Optimization and Simulation
9.	Kamakoti, V	1968	Computer Architecture, Information Security and VLSI Design
10.	Kelkar, VL	1942	Management and Finance
11.	Krupanidhi, SB	1951	Epitaxial Compound Semiconductors; Device Physics & Engineering
12.	Kulkarni, Giridhar	1963	Nanomaterials and Self-assembly routes to nanofabrication
13.	Kumar, Ashok	1963	Biomedical Engineering, Biomaterials, Tissue Engineering, Regenerative Medicine, Bioprocess Engineering, Translational research, Technology and Innovation, Environmental Engineering, Interdisciplinary Science and Technology
14.	Lakshmi Kantam, Mannepalli	1955	Catalysis, Materials & Process Chemistry
15.	Misra, JC	1944	Bioengineering, Structural Engineering
16.	Misra, KB	1943	Reliability and Safety Engineering; Power System Engineering; Performance Engineering
17.	Mohanty, UC	1948	Tropical Meteorology; Weather and Climate Prediction; Regional; Climate Modelling; Monsoon Dynamics, Tropical Cyclone Studies, Climate Risk Management in Agriculture
18.	Mukherji, S	1967	Instrumentation; Biosensors
19.	Mukherji, Suparna	1966	Environmental Science & Engineering
20.	Munshi, P	1956	Computer Tomography; Nuclear Safety
21.	Nath, SK	1960	Earthquake and Engineering Seismology, Seismic Hazard, Vulnerability & Risk Microzonation, Hydrocarbon Exploration, Geophysical Tomography; Computational Geophysics, Geophysical Signal Processing & Pattern Recognition
22.	Nath, Sunil	1962	Biothermodynamics; Biological Molecular Machines
23.	Pal, SK	1970	Biomedical Instrumentation; Nanotechnology
24.	Patravale, Vandana Bharat	1965	Drug eluting devices, Targeted drug delivery systems, Nanodiagnostics, Tissue engineering

25.	Pradeep, T	1963	Nanoscience and nanotechnology, Water purification, Droplet science, Ice chemistry, Instrumentation
26.	Raghavan, S	1972	Materials; Electronic Devices
27.	Raghuwanshi, NS	1962	Water Management; IT Application in Agriculture
28.	Rajendran, C	1960	Industrial Engineering; Operations & Supply Chain Management
29.	Sahasrabudhe, Anil D	1957	Mechanical engineering - Vibration and noise control CAD-CAM, institutional governance and best practices; use of technology in education, accreditation and ranking of institutions
30.	Sarma, DD	1955	Condensed matter science
31.	Sen, Prasenjit	1956	Materials Science & Engineering; Nanotechnology
32.	Shakher, Chandra	1949	Optical Engineering; Laser Applications and Holography
33.	Shankar, R	1961	Industrial Engineering and Operation Management; Decision Science
34.	Shanker, Kripa	1949	Supply Chain and Logistical Management; Computer-Integrated/Flexible Manufacturing Systems
35.	Sharan, M	1953	Atmospheric Boundary Layer; Air Pollution; Biomed Engg.
36.	Shukla, AK	1947	Batteries, Fuel Cells
37.	Singh, Kehar	1941	Information Optics; Optical Engineering
38.	Singhal, RS	1962	Food science and technology, enzyme bioprocessing, bioprocess technology, traditional foods
39.	Sirohi, RS	1943	Optical Metrology; Coherent Optics
40.	Srinivasan, Sampath	1961	Materials Electrochemistry; Energy Systems
41.	Srivastava, Rohit	1976	Biomedical Engineering
42.	Tiwari, Manoj Kumar	1962	Logistics and Supply Chain Management; Manufacturing Planning
43.	VijayRaghavan, K	1954	Molecular Biology, Genetics and Chemical Engineering
44.	Visvesvaraya, HC	1928	Cement and Concrete Structures, Technology Upgradation
45.	Yadav, JS	1950	Organic Chemistry/Chemical Technology

### R&D

S.No	Name	Year of birth	Specialization
1.	Aiyagari, V Rao	1947	Management of Science & Engg. research, Science policy studies & planning. Operations Research, Industrial Engineering, R&D-Academia - Govt. networking and S&T programs
2.	Gupta, Akhilesh	1963	Climate Change; Atmospheric Sciences
3.	Jayaraman, V	1949	Electronic Engineering; Remote Sensing
4.	Kiran Kumar, AS	1952	Electro Optical Imaging; System Engineering
5.	Krishna Moorthy, JAR	1947	Electro-Optic Instrumentation, Control Systems
6.	Kumar, YP	1947	Materials S&T; International Cooperation in S&T
7.	Mandal, AB	1952	Physical/Biophysical Chemistry, Chemical Engineering and Biotechnology; Colloids, Surfaces, Polymers, Nanomaterials, Environmental Science and Technology
8.	Mohanty, Ajit	1959	Nuclear Physics and Engineering
9.	Nakhe, Shankar	1964	Laser systems, high voltage pulse power systems

10.	Prasada Raju, DR	1955	Manufacturing Engineering; Drinking Water-Purification Technologies
11.	Rajagopal, Chitra	1960	Integrated safety(explosives, environment fire ) management, Hazwaste & Hazchem management, QRA & DM
12.	Rao, Paruchuri G	1950	R&D Management, Technology Development, Scaleup and Transfer, Rural Development, Science & Society, Project monitoring and mentoring human resources.
13.	Ravichandran, M	1965	Physics, Oceanography, Meteorology, instrumentation, Ocean Observing systems, Ocean Modelling
14.	Roy, PK	1957	Biomedical Engineering; Biomedical Image Processing
15.	Tayal, Rajiv Kumar	1961	Policy Framework and Management of R&D, Technology Development
16.	Tyagi, Paritosh C	1932	Environmental Management
17.	Venkata Mohan, S	1970	Environmental Engineering, Environmental Biotechnology, Bioprocess Engineering, Circular Economy, Industrial Ecology, Renewable Chemicals and Fuels, Life Cycle Analysis, Biohydrogen, Bioelectrogenesis
18.	Verma, Sandeep	1966	Bioengineering, Biomaterials, Interdisciplinary R&D

### INDUSTRY

S.No	Name	Year of birth	Specialization
1.	Anand, YP	1934	Transportation Engineering and Management
2.	Behera, AK	1954	Agri-Business Development; Institutional Development & Management
3.	Chatterjee, Purnendu	1950	Operations Research, Entrepreneurship
4.	Chandrasekaran, N	1963	Global Strategy; Customer centricity
5.	Datla, Ramesh	1961	Spectroscopy Instrumentation, Instrumentation for Water, Agriculture, Food, and Chemical Warfare agents detection.
6.	Gupta, Syamal	1934	Environment and Energy; Precision Engineering
7.	Gurnani, CP	1958	Chemical Engineering, Technology, Leadership, Business Strategy, Innovation
8.	Kalyani, BN	1949	Technology; International Business Cooperation
9.	Kumar, Ranajit	1962	Nuclear Engineering; Electronics Engineering
10.	Mande, S	1962	Computational Biology, Bioinformatics, Multi-OMICs informatics
11.	Mazumdar-Shaw, Kiran	1953	Biopharmaceuticals; Affordable Healthcare
12.	Mohanty, RP	1944	Industrial and System Engineering, Supply Chain Management, Multi- Criteria Decision Making
13.	Naidu, BSK	1945	Power Engineering & Management; Water Resources (Hydro) Engineering; Renewable Energy; Management Science
14.	Patel, VB	1933	Water Resources Projects, Water Supply
15.	Premji, Azim Hasham	1945	Software, Leadership Development
16.	Rai, Beena	1964	Computational Materials Engineering

17.	Raju, KS	1950	Chemical Technology, Engineering Projects
18.	Ramachandran, Reena	1941	Chemical Technology and Management
19.	Ramakumar, SSV	1963	Energy Research; Materials Science including Nanotech
20.	Rao, GM	1949	Infrastructure; Corporate Social Responsibility
21.	Shah, RKD	1939	Power Engineering, General Management
22.	Subramanian, K	1967	Systems Biology; Bioinformatics
23.	Sumantran, V	1958	Automobile Engineering; Aerospace Engineering
24.	Verma, RB	1945	Design and Building of Nuclear Powered Submarines; Industrial Consultant in Farm Mechanisation and Auto Sector
25.	Wagh, GA	1970	Leadership, Strategy, Automotive, Sustainability, Electric Vehicles

#### **FOREIGN FELLOWSHIP**

<b>S.No</b>	<b>Name</b>	<b>Year of birth</b>	<b>Specialization</b>
1.	Gadgil, Ashok J.	1950	Environmental Engineering
2.	Laurencin, Cato Thomas	1959	Chemical Engineering; Interdisciplinary Engineering
3.	Packirisamy, M	1964	Micro-Nanotechnologies; Microsensors
4.	Reddy, JN	1945	Applied Mechanics; Computational Methods
5.	Williams, DF	1944	Biomaterials science; Tissue engineering

### INAE YOUNG ASSOCIATES ON ROLL

1.	Akula, Naga Vara Aparna	Intelligent Sensing Systems, Thermal infrared imaging, AI, Computer Vision, Electronics, Instrumentation
2.	Badhulika, Sushmee	Nanomaterials, devices and circuits, Flexible and wearable nanoelectronics, electrochemical nanosensors
3.	Barui, Ananya	Bioimmedical Engineering
4.	Chandra Sekaran, Bharathi Priya	Magnetorheological smart devices, Seismic vibration control, Structural Dynamics, PZT based SHM
5.	Gorthi ,Sai Siva	Biomedical Instrumentation & Optical Metrology
6.	Kothakota, Anjineyulu	Agriculture Engineering and Technology
7.	Mevada, Jayeshkumar Sevantilal	Imaging system, Healthcare diagnosis, AI-ML in education, Extraction, waste valorization, water purification
8.	Raghvendra Sai, VV	Biomedical Engineering, Nanotechnology, Chemical and Bio Sensors and Instrumentation, Fiber optic sensors, Plasmonic nanoparticles
9.	Ramalingam, Sathya	Eco-friendly Leather Processing, Nanotechnology in Leather Processing
10.	Rengan , AK	Biomedical Engineering (Nanotechnology)
11.	Ruth, D. Josephine Selvarani	Instrumentation and control Engineering
12.	Sathish, M	Leather Technology
13.	Sheikh, JN	Fibres & Textile Processing Technology
14.	Varshney, Pushkar	Refining Technology