

SECTION-VI
(Electronics and Communication Engineering)

ACADEMIA

| S.No. | Name | Year of birth | Specialisation |
|--------------|-------------------------|----------------------|--|
| 1. | Anand, GV | 1943 | Signal processing, Ocean acoustics, Nonlinear dynamics. |
| 2. | Balakrishnan, M | 1956 | Assistive Technology, Embedded Systems, EDA and System Level Design |
| 3. | Balakrishnan, N | 1950 | Information Security, Computational Electromagnetics |
| 4. | Bharadwaj, Amrutur | 1969 | Microelectronics |
| 5. | Bhat, Bharathi | 1941 | Microwave and Millimeter Wave Engineering |
| 6. | Bhat, KN | 1943 | Microelectronics |
| 7. | Bhat, Navakanta | 1968 | Nanoelectronics; Sensors |
| 8. | Bhatnagar, Manav | 1976 | Communication Engineering |
| 9. | Chakraborty, M | 1961 | Digital Signal Processing |
| 10. | Chandra, Kailash | 1934 | Electronics Instrumentation, Precision Measurement |
| 11. | Chakrabarti, Subhananda | 1970 | Semiconductor Optoelectronics |
| 12. | Chauhan, Yogesh | 1978 | Nanoelectronics, Modeling and Simulation of Semiconductor Devices, DC, RF and Noise Characterization |
| 13. | Chockalingam, A | 1962 | Wireless Communications and Networking |
| 14. | Dasgupta, Amitava | 1959 | Microelectronics, MEMS |
| 15. | Dasgupta, Nandita | 1962 | Semiconductor Devices; VLSI Technology |
| 16. | De, Swades Kumar | 1969 | Communication systems and networks |
| 17. | Desai, UB | 1951 | Communication and Signal Processing, AI and CPS. Services |
| 18. | Dutta Roy, SC | 1937 | Circuits, Systems and Signal Processing |
| 19. | Gandhi, Tapan Kumar | 1980 | Medical Electronics, Computational Neuroscience, Medical Signal & Image Processing, Assistive Technology, Rehabilitation Engineering |
| 20. | Guha, D | 1963 | Antenna Engineering, Applied Electromagnetics, and Microwaves |
| 21. | Gumaste, Ashwin | 1975 | Telecommunications, Cyber Security |
| 22. | Hari, KVS | 1962 | Signal Processing; Communications |
| 23. | Jagadesh Kumar, M | 1960 | Nanoelectronics; Device Modeling & Simulation |
| 24. | Jaleel Akhtar, M | 1971 | RF Sensors, Microwave Imaging Techniques, Nanocomposites Based Microwave Absorbers |
| 25. | Jayadeva | 1967 | AI/Machine Learning |

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|--------------|-----------------------|----------------------|---|
| 26. | Jhunjhunwala, Ashok | 1953 | Development of affordable products, like Wireless in Local Loop, remote health monitoring system, rural-ATM, Solar-DC for homes, electric vehicles etc; telecom design & manufacturing for import substitution; ICT to drive healthcare, education, agriculture |
| 27. | Kartikeyan, MV | 1961 | High Power Millimeter Waves; High Frequency Circuits, Antennas and Systems |
| 28. | Koillpillai, RD | 1962 | Wireless Communications, Digital Signal Processing |
| 29. | Kottantharayil, GA | 1971 | Solar Photovoltaics, Nanoelectronic Devices, Semiconductor Processing |
| 30. | Koul, SK | 1954 | Microwave and Millimeter Wave Engineering, CAD of Microwave ICs |
| 31. | Krishnapura, Nagendra | 1974 | Analog Integrated Circuit Design, Circuits and Systems Pedagogy |
| 32. | Kumar, Anurag | 1955 | Communication Networks and Cyber Physical Systems: modeling, analysis, optimisation, control |
| 33. | Kumar, PV | 1955 | Algebraic Coding Theory; Wireless Communication |
| 34. | Lahiri, SK | 1943 | Microelectronics & MEMS, Integrated Optics |
| 35. | Lodha, Saurabh | 1977 | Nanoscience and Nanotechnology |
| 36. | Mahapatra, Souvik | 1970 | Semiconductor Devices |
| 37. | Manjunath, D | 1964 | Telecommunication and Networking; Performance Models of Systems |
| 38. | Mallik, RK | 1964 | Electrical Communication Engineering |
| 39. | Mehta, NB | 1975 | Wireless Communications and standards |
| 40. | Murthy, CR | 1976 | Wireless Communications, Signal Processing |
| 41. | Murti, VGK | 1933 | Electrical Measurements, Networks and Systems |
| 42. | Narayanan, H | 1948 | Electrical Networks, Combinatorial Optimization |
| 43. | Panda, G | 1948 | Digital Signal Processing, Soft Computing in Communication |
| 44. | Paulraj, AJ | 1944 | Wireless Communication |
| 45. | Prasad, Surendra | 1948 | Signal Processing, Communications |
| 46. | Rajan, BS | 1958 | Communication Theory; Information Theory |
| 47. | Ramamurthi, B | 1959 | Communications, Wireless Networks |
| 48. | Ramakrishnan, AG | 1958 | Human-Computer Interface Technologies; Neuroscience and Signal Processing |
| 49. | Rao, V Ramgopal | 1965 | Nanoelectronics; CMOS Devices |

| S.No. | Name | Year of birth | Specialisation |
|-------|--------------------|---------------|--|
| 50. | Ray, KP | 1960 | Antennas, Radars, RF/Microwave, Electromagnetics, High Power Microwave Systems, RF-Photonics, Industrial/Medical Microwave Systems |
| 51. | Ray, SK | 1961 | Semiconductor Devices, Nanophotonics, Quatum Devices, Thin Films |
| 52. | Reddy, VU | 1939 | Signal Processing, Communications |
| 53. | Roy, S | 1966 | Nano-Bio-Photonics, Neurophtonics, Silicon Photonics, Optical Computing, Ultrafast Information Processing |
| 54. | Shanthi Pavan, Y | 1973 | Analog, Mixed-Signal and RF Circuits and Systems |
| 55. | Sharma, Anurag | 1955 | Photonics (Fibre Optics); Optical Engineering |
| 56. | Sharma, Vinod | 1957 | Wireless Communications and Networking; Information Theory |
| 57. | Shevgaonkar, RK | 1954 | Applied Electromagnetics and Antennas, Optical Communication and Photonics, Radio Astronomy |
| 58. | Shojaei Baghini, M | 1965 | Electrical Engineering - Electronics and Microelectronics |
| 59. | Thyagarajan, K | 1952 | Photonics; Opto-Electronics |
| 60. | Vasi, JM | 1947 | Microelectronics |
| 61. | Vinoy, KJ | 1969 | Microwave Engineering, Microelectro Mechanical Systems |

R&D

| S.No. | Name | Year of birth | Specialisation |
|-------|-------------------|---------------|--|
| 1. | Aatre, VK | 1939 | Digital Signal Processing, Sonar System Design |
| 2. | Agrawal, VK | 1953 | Electronics and Computer |
| 3. | Ahmad, Shamim | 1943 | Millimeter Wave, Semiconductor Devices Technology and Physics |
| 4. | Ananda Mohan, VP | 1949 | Analog VLSI Design, Cryptography |
| 5. | Bhatkar, VP | 1946 | Super Computing, Artificial Inatelligence |
| 6. | Bimalkhedkar, S | 1945 | Defensive Electronics and Signal Processing |
| 7. | Biswas, BB | 1948 | Control & Safety Instrumentation, particularly for Nuclear Plants |
| 8. | Calla, OPN | 1935 | Electronics Communication |
| 9. | Chander, V | 1946 | Signal Processing; Underwater Systems |
| 10. | Chatterjee, UK | 1938 | Lasers, High Voltage Switching |
| 11. | Christopher, S | 1955 | Air Borne Early Warning Systems; Radar Technology |
| 12. | Cleetus, George M | 1943 | Digital Signal Processing, Radar Systems Engineering |
| 13. | Das, Binoy Kumar | 1966 | Image Processing, Range Technology, Electro-Optics, Radar, EW System, DEW, SDR, Project Portfolio Management |

| S.No. | Name | Year of birth | Specialisation |
|-------|------------------|---------------|--|
| 14. | Deekshatulu, BL | 1936 | Digital Image Processing, Remote Sensing, Machine Learning, Artificial Intelligence, Control Engg. |
| 15. | Kumar, C | 1976 | Microwave Antennas; RF Communication |
| 16. | Kumar, D | 1946 | Information Technology, Integrated Networks |
| 17. | Kumar, Lalit | 1953 | Microwave Engineering; Vacuum Electronics Devices |
| 18. | Kumar, Vikram | 1947 | Semi-conductor Physics and Technology |
| 19. | Ghosh, HN | 1966 | Ultrafast Spectroscopy, Semiconductor Quantum Dots, 2D materials, Perovskites, Plasmonic Materials |
| 20. | Misra, Arundhati | 1962 | Microwave Remote Sensing Sensors' algorithm, processor and advanced techniques development |
| 21. | Muralidharan, R | 1953 | Semiconductor Material and Device Technology |
| 22. | Padmanabhan, VN | 1971 | Computer Networking; Mobile Systems |
| 23. | Pal, Surendra | 1948 | Space Communications, Microwaves, Electromagnetics and Antennas |
| 24. | Pithawa, CK | 1951 | Control and Instrumentation of Nuclear Power Plants, Research Reactors and Particle Accelerators |
| 25. | Ramalingam, RP | 1946 | Embedded Systems, Software Engineering |
| 26. | Ramamurthy, N | 1954 | Signal Processing; Communications |
| 27. | Sharma, SB | 1947 | Electronics & Communication; Microwave Engineering |
| 28. | Sitaram, N | 1946 | Military Communication, Command Control Information Systems |
| 29. | Varadarajan, S | 1949 | Radar Data Processing; Radar System Engineering |

INDUSTRY

| S.No. | Name | Year of birth | Specialization |
|-------|------------------------|---------------|--|
| 1. | Acharya, Tinku | 1963 | AI, Image Processing, VLSI, Computer Vision, Video Analytics, Corporate Management |
| 2. | De, Aloknath | 1962 | Cyber-Physical Systems; ATIC6: AI, Trusted Tech, IoT, Cobotics, 6G |
| 3. | Deshpande, Vinay L | 1947 | Digital Systems, Management of R&D |
| 4. | Gore, Dhananjay A | 1977 | Wireless Communications |
| 5. | Gowtama, MV | 1961 | Electronics Warfare |
| 6. | Jayasimha, Sriram | 1957 | Multirate Digital Signal Processing, Communications Systems |
| 7. | Kaura, SK | 1944 | Electronics |
| 8. | Kumar, N | 1950 | Electronics |
| 9. | Malla Reddy, B | 1947 | Electronics-Microwaves |
| 10. | Mehendale, MM | 1963 | VLSI Architectures; Low Power VLSI Design |
| 11. | Mittal, Sunil Bharti | 1957 | Telecom, Space Communications, Digital Solutions |
| 12. | Muralidharan, Raghavan | 1954 | Systems Engineering, Mission critical Real time systems Radios Communication systems AI/ML for Defence systems |

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|--------------|-------------------------|----------------------|---|
| 13. | Nagarajan, V | 1944 | Fibre Optics Communication, Digital Communication |
| 14. | Nayak, Sanjay | 1964 | Telecommunications & Networking; Electronics and Semiconductor |
| 15. | Parulkar, Ishwardutt | 1966 | Mobile Networks; Cloud Technologies |
| 16. | Pitroda, Satyan (Sam) G | 1942 | Electronics and Communication Engineering |
| 17. | Pradhan, BD | 1939 | Telecommunications, Electronics |
| 18. | Ravikumar, CP | 1961 | VLSI Design, VLSI Test, Embedded Systems, Programming, High Performance Computing |
| 19. | Roy, JN | 1957 | Semiconductor, VLSI, Solar-Photovoltaics |
| 20. | Saale, Manu | 1973 | Leadership, Enterprise Transformation, Embedded Systems and Software, Growth Strategies |
| 21. | Sastry, VVR | 1949 | Telecommunications & military communications; Technology Management |
| 22. | Sherlekar, SD | 1956 | Computer Science Engineering and Electronics Engineering |
| 23. | Shorey, Rajeev | 1963 | Communication Networks, 5G/6G Networks, Edge Computing, AI/ML/DL, Cyber Security, Automotive Systems, |
| 24. | Singh, Surjit | 1941 | Communications and Radar, Computer Sciences |
| 25. | Sivarajan, KN | 1965 | Communication Networks; Optical Networking |
| 26. | Srivastava, GP | 1949 | Automation & Control Systems Engineering, NDE Instrumentation, Security Electronics |
| 27. | Venkatesh, G | 1961 | Telecom Engineering; VLSI Design |
| 28. | Venkatesh, N | 1963 | Internet of Things; Wireless LAN |
| 29. | Zarabi, MJ | 1947 | Microelectronics; Physical Electronics |

FOREIGN FELLOWSHIP

| S.No. | Name | Year of birth | Specialization |
|--------------|-------------------------|----------------------|---|
| 1. | Baliga, B Jayant | 1948 | Electrical Engineering; Power Electronics |
| 2. | Bhargava, VK | 1948 | Wireless Communications; Digital Communications |
| 3. | Deen, M Jamal | 1955 | Optoelectronics; Micro/Nano-electronics |
| 4. | Jagadish, Chennupati | 1957 | Semiconductors, Optoelectronics, Nanotechnology, Photonics, Photovoltaics, Neurotechnology, Renewable Energy |
| 5. | Kazmerski, Lawrence Lee | 1945 | Electrical Engineering; Solar Photovoltaics (Renewable Energy) |
| 6. | Kailath, Thomas | 1935 | Signal Processing, Control, Communications |
| 7. | Kumar, PR | 1952 | Control Systems; Communication Networks |
| 8. | Letaief, Khaled B | 1962 | 6G Wireless Systems, artificial intelligence, mobile cloud and edge computing, wireless communications and networking, tactile Internet |
| 9. | Mishra, Umesh Kumar | 1958 | Semiconductor Materials and Devices , Gallium Nitride technologies |
| 10. | Mitra, Sanjit Kumar | 1935 | Analog and Digital Signal Processing |

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|--------------|--------------------------|----------------------|--|
| 11. | Narayanamurti, Venkatesh | 1939 | Electrical Engineering; Materials Engineering |
| 12. | Netravali, Arun | 1946 | Visual Communications, Computer Systems and Communications Sciences |
| 13. | Payne, David N. | 1944 | Photonics; Fiber Lasers |
| 14. | Rohde, Ulrich L | 1940 | Electronics & Comm. Engineering, Signal Generation & Signal Processing Engg. |
| 15. | Reddy, Raj | 1937 | Computer Science and Robotics - IT Education |
| 16. | Seshadri, Nambi | 1961 | Wireless Communications |
| 17. | Stata, Raymond S | 1934 | Electrical Engineering, Management |
| 18. | Tatipamula, Mallikarjun | 1968 | Telecommunications, Internet, Networking and Wireless technologies |
| 19. | Vaidyanathan, Palghat | 1954 | Digital Signal Processing and Communications |
| 20. | Wineland, David | 1944 | Atomic Physics, Atomic spectroscopy, Atomic clocks, Quantum information, Quantum computation |

INAE YOUNG ASSOCIATES ON ROLL

| S.No. | Name | Specialization |
|--------------|-----------------------------|--|
| 1. | Avasthi, Sushobhan | Photovoltaics |
| 2. | Chaudhary, Raghvendra Kumar | RF & Microwave Engineering |
| 3. | Das, Samaresh | Silicon based photodetector from visible to infrared wavelengths, Quantum devices for future electronics |
| 4. | Dash, Soumya Prakash | Communication theory, Wireless communications, Diversity combining, Digital communications |
| 5. | Dutta, Tanmay | Non-volatile/ Race-track/ Neuromorphic memory, Spintronics, MRAM (SOT,STT), HDD, SSD |
| 6. | Ghosh, Saptarshi | RF and Microwave |
| 7. | Kumar, Niraj | Plasma assisted Microwave & sub-THz source |
| 8. | Murali, Kota | Nano Devices and Technology |
| 9. | Nath, Digbijoy N | Semiconductor devices and heterostructures, gallium nitride (GaN) based high electron mobility transistors (HEMTs) and deep-UV photodetectors, gallium oxide deep-UV opto-electronics |
| 10. | Rajawat, Ketan | Signal Processing in Networks |
| 11. | Sandhan, Tushar Balasaheb | Computer Vision, Artificial Intelligence, Machine Learning |
| 12. | Sahay, Shubham | Hardware Platforms for Neuromorphic Computing, Hardware Security Primitives, Novel Device Architectures for Scaling CMOS Technology, Analytical and Compact Modeling of Semiconductor Devices, Non-volatile Memories, and Spintronics. |
| 13. | Sarkar, Debdeep | Antennas and Propagation, Microwaves, Applied Electromagnetics, Wireless Communication |

| S.No. | Name | Specialization |
|--------------|-----------------------------|---|
| 14. | Selvarajan, Naveen Kumar | Virtualisation, Cloud-Computing, AI and Machine Learning, Kubernetes, Backup and Recovery |
| 15. | Shrivastava, Mayank | Nanoelectronic Devices, Power Semiconductor and System on Chip |
| 16. | Singh, Jasbir | Global Navigation Satellite Systems, Automotive Radars, Automotive Safety |
| 17. | Sivaparkasam, Mohanasanakar | Medical devices, diagnostics and instrumentation |
| 18. | Srivastava, Suraj | Wireless Communications and Signal Processing |
| 19. | Supradeepa, VR | Photonics and Lasers, Optical Communications and RF Photonics |
| 20. | Suri, Manan | Electronics & Communication Engineering |
| 21. | Tolani, Harshita | RF/Microwave/mm-wave/Terahertz Circuits & Systems |
| 22. | Vaze, Rahul | Wireless Communication |