Version –4 (Valid from 9.2.2016)

PAY SCALE AND PAY BAND:

Post	Pay Band
Assistant Professor	**Pay Band: (PB-3) Rs.15600-39100+AGP 8000/-;** **Minimum Pay Rs.30, 000/-.** **After completion of 3 years of service as Assistant Professor in PB-3, candidates will be considered for movement to Pay Band: (PB-4) Rs.37000-67000+AGP 9000/-.** **Candidates with Ph.D. but with less then 3 years experience can be considered for Assistant Professor on contract pay as approved by the Board of Governors.**

UPDATED AREAS IN THE ROLLING ADVERTISEMENT

DEPARTMENTS :

1. APPLIED MECHANICS : Solid Mechanics, Fluid Mechanics, Metallurgy and Material Science, Design Engineering.

2. BIOCHEMICAL ENGG. & BIOTECHNOLOGY : Biochemical Engg. & Chemical Engg.

3. CHEMICAL ENGG. : Renewable and Conventional Energy Technologies, Interfacial Engg. and Nanotechnology, Molecular to Process Scale Modeling and Simulation, Optimization and Process Control, Bio-processing for Pharmaceutical and Healthcare Technology, Environment Technologies, Advance Novel Materials.

4. CHEMISTRY : Inorganic Chemistry.

5. CIVIL ENGG. : Environmental: Water and Waste Water Engg., Air Pollution Control Engg., Solid and Hazardous Waste Engg., Geotech: Geotechnical Engg., Rock Machanics and Rock Engg., Structures: Structural Engg. and Construction Management, Transportation: Transportation Engg., Pavement Engg., Traffic Engg., Water Resources: Water Resources and related areas.

6. COMPUTER SCIENCE & ENGG. : High Performance Computing and Visualization, Machine Learning and Artificial Intelligence, Wired and Wireless Networks, Mobile Computing and Machine-to-Machine(IOT), Algorithms & Complexity, Logic & Verification, Information Management, Data Science & Big Data, Computer Vision, Graphics & Robotics, Programming Languages, Semantics, Analysis & Language Implementation, Distributed & Multicore Computing, Cloud Computing, Cryptography and Systems & Information Security, Human Computer Interaction, Embedded Systems, Computer Architecture, VLSI and EDA.

7. ELECTRICAL ENGG. : In all areas of Electrical Engineering including Electronics & Circuits, Control & Automation, Communication & Radar, Computer Technology, Power Systems, Power Electronics, Machines & Drives.

8. HUMANITIES & SOCIAL SCIENCES : Economics, English (Literature), Linguistics, Philosophy, Policy Studies, Psychology, Sociology.

9. MANAGEMENT STUDIES : Strategic Management, Technology Management, Telecom Systems Management, Human Resource Management, Operations & Supply Chain Management, Information Systems Management, Marketing Management.

10. MATHEMATICS : All areas of Pure and Applied Mathematics, Theoretical Computer Science, Probability and Statistics.

11. MECHANICAL ENGG. : Mechanical Design, Production Engg., Industrial Engg., Thermal Engg. (For more details about specific areas visit http://mech.iitd.ac.in).

12. PHYSICS : All areas of Physics.

13. TEXTILE TECHNOLOGY : Textile Chemical Processing, Fabric Manufacture, Yarn Manufacture, Fibre Science & Technology, Emerging areas relevant to Textile, Computer Modelling, Mechanical, Electrical, Electronics Engineering (machine & instrument design), Chemical Engineering (polymer material), Management.

CENTRES:

14. APPLIED RESEARCH IN ELECTRONICS : Microwaves and RF: RFIC and RF MEMS, Imaging and Surveillance, RF Digital Co-design, Active and Reconfigurable Antennas and Arrays, High Power Solid State Systems, Non-linear Modeling and Measurements, Components & Systems up to THz, Signal Processing: Underwater Acoustics, Acoustics for Air and other Media, Speech Processing, Signal Processing for Communications, Sensor Array Signal Processing, Multisensor Fusion, Microelectronics: MEMS Sensors and Devices, Process and Device Fabrication Technologies, Non-destructive Characterization: Techniques and Systems, THz Devices & Technologies.

15. ATMOSPHERIC SCIENCES : Ocean Modelling, Climate Modelling, Meso-scale Studies, Atmospheric dispersion.

16. BIOMEDICAL ENGG. : Bioelectronics, Biomechanics, Bioinstrumentation, Biomaterials.

17. ENERGY STUDIES : Fuel Technology (Coal, Biomass), Electrical Energy System, Photovoltaic Devices and Systems, Solar Thermal Energy, Energy Economics and Energy Planning, Plasma Science and Technology (Experimental), Internal Combustion Engines and Alternative Fuels.

18. INDUSTRIAL TRIBOLOGY, MACHINE DYNAMICS & MAINTENANCE ENGG. Maintenance Engineering and Reliability, Condition Monitoring, Lubrication, Tribological Materials.

19. INSTRUMENT DESIGN & DEVELOPMENT: Optics with specialisation in optical Instrumentation/Metrology/Optical Engineering, Electronics with specialisation in Electronics Instrumentation/Embedded Systems/Power Electronics, Industrial Design with specialisation in Product Form and Aesthetics/Human Factor/Product Prototyping/Human Interface Design.

20. POLYMER SCIENCE AND ENGINEERING : Polymer Chemistry/Synthesis, Polymer Blends and Composites, Polymer Rheology and Processing, Polymer Technology, Polymer Nano Composites.

21. RURAL DEVELOPMENT AND TECHNOLOGY : Rural energy systems, Water, sanitation and habitat technologies, Food Technology (processing, food quality and safety), Engineering Design, Rural Technologies and Industries.

SCHOOLS:

22. BHARTI SCHOOL OF TELECOMMUNICATION TECHNOLOGY AND MANAGEMENT: All areas of telecom technology and management.

23. AMAR NATH & SHASHI KHOSLA SCHOOL OF INFORMATION TECHNOLOGY: Computational Neuroscience, Medical Applications of Information Technologies,

Computational & Systems Biology, Embedded Systems & Sensore, Computer Security, Internet of Things(IoT).

24. KUSUMA SCHOOL OF BIOLOGICAL SCIENCES: In-silico Biology Applications, Systems Biology, Infection Biology, Neurodegeneration.
