



**Indian Institute of Technology Bhubaneswar**  
**Autumn End-Semester Examination - 2019**  
**Dual Degree ( Semester-1 )**

Date / Day	B.Tech. in Mechanical Engineering and M.Tech. in Manufacturing Engineering	B.Tech. in Civil Engineering and M.Tech. in Structural Engineering	B.Tech. in Metallurgical and Materials Engineering and M.Tech. in Metallurgical and Materials Engineering	B.Tech. in Computer Science and Engineering and M.Tech. in Computer Science and Engineering	B.Tech. in Civil Engineering and M.Tech. in Transportation Engineering	B.Tech. in Civil Engineering and M.Tech. in Environmental Engineering	B.Tech. in Mechanical Engineering and M.Tech. in Mechanical Systems Design	B.Tech. in Electrical Engineering and M.Tech. in Power Electronics and Drives	B.Tech. in Mechanical Engineering and M.Tech. in Thermal Science and Engineering
<b>2:30 PM - 5:30 PM (Afternoon)</b>									
18-11-2019 Monday	Mathematics - I	Mathematics - I	Mathematics - I	Mathematics - I	Mathematics - I	Mathematics - I	Mathematics - I	Mathematics - I	Mathematics - I
19-11-2019 Tuesday	-	Electrical Technology	-	Electrical Technology	Electrical Technology	Electrical Technology	-	Electrical Technology	-
20-11-2019 Wednesday	Physics	-	Physics	Physics	-	-	Physics	-	Physics
21-11-2019 Thursday	-	Chemistry	-	Chemistry	Chemistry	Chemistry	-	Chemistry	-
22-11-2019 Friday	Mechanics	-	Mechanics	Mechanics	-	-	Mechanics	-	Mechanics
23-11-2019 Saturday	-	Learning English/ English for Communication	-	English for Communication	Learning English/ English for Communication	Learning English/ English for Communication	-	English for Communication/ Learning English	-
25-11-2019 Monday	Introduction to Programming and Data Structures	-	Introduction to Programming and Data Structures	Introduction to Programming and Data Structures	-	-	Introduction to Programming and Data Structures	-	Introduction to Programming and Data Structures



# Indian Institute of Technology Bhubaneswar

## Autumn End-Semester Examination - 2019

### Dual Degree ( Semester-3 )

Date / Day	B.Tech. in Mechanical Engineering and M.Tech. in Thermal Science and Engineering	B.Tech. in Mechanical Engineering and M.Tech. in Manufacturing Engineering	B.Tech. in Metallurgical and Materials Engineering and M.Tech. in Metallurgical and Materials Engineering	B.Tech. in Electrical Engineering and M.Tech. in Power Electronics and Drives	B.Tech. in Computer Science and Engineering and M.Tech. in Computer Science and Engineering	B.Tech. in Civil Engineering and M.Tech. in Structural Engineering	B.Tech. in Civil Engineering and M.Tech. in Transportation Engineering	B.Tech. in Civil Engineering and M.Tech. in Environmental Engineering	B.Tech. in Mechanical Engineering and M.Tech. in Mechanical Systems Design
<b>09:00 AM - 12:00 PM (Forenoon)</b>									
18-11-2019 Monday	Fluid Mechanics	Fluid Mechanics	Thermodynamics of Materials	Signals and Systems	Signals and Systems	Surveying	Surveying	Surveying	Fluid Mechanics
19-11-2019 Tuesday	-	-	Mathematics in India: Ancient to Modern Times/ Social Psychology/ Introduction to Sanskrit, German and Comparative Linguistics/ Speaking and Presentation	Speaking and Presentation/ Introduction to Economics/ Social Psychology/ Introduction to Sanskrit, German and Comparative Linguistics	Introduction to Economics/ Speaking and Presentation/ Social Psychology	-	-	-	-
20-11-2019 Wednesday	Introduction to Material Science and Engineering	Introduction to Material Science and Engineering	Introduction to Material Science and Engineering	Introduction to Material Science and Engineering	Data Structure	Introduction to Material Science and Engineering	Introduction to Material Science and Engineering	Introduction to Material Science and Engineering	Introduction to Material Science and Engineering
21-11-2019 Thursday	Introduction to Bioscience and Technology	Introduction to Bioscience and Technology	Introduction to Bio Science and Technology	Introduction to Bioscience and Technology	Introduction to Bioscience and Technology	Introduction to Bioscience and Technology	Introduction to Bioscience and Technology	Introduction to Bioscience and Technology	Introduction to Bioscience and Technology
22-11-2019 Friday	Theory of Machines - I	Theory of Machines - I	-	Introduction to Electronics	Introduction to Electronics	Solid Mechanics	Solid Mechanics	Solid Mechanics	Theory of Machines - I
23-11-2019 Saturday	Basic Electronics	Basic Electronics	Basic Electronics	-	Discrete Structures	Basic Electronics	Basic Electronics	Basic Electronics	Basic Electronics
25-11-2019 Monday	Transform Calculus	Transform Calculus	Numerical Methods	Probability, Statistics & Stochastic Processes	-	Probability, Statistics & Stochastic Processes	Probability, Statistics & Stochastic Processes	Probability, Statistics & Stochastic Processes	Transform Calculus



# Indian Institute of Technology Bhubaneswar

## Autumn End-Semester Examination - 2019

### Dual Degree ( Semester-5 )

Date / Day	B.Tech. in Civil Engineering and M.Tech. in Transportation Engineering	B.Tech. in Computer Science and Engineering and M.Tech. in Computer Science and Engineering	B.Tech. in Civil Engineering and M.Tech. in Structural Engineering	B.Tech. in Electrical Engineering and M.Tech. in Power Electronics and Drives	B.Tech. in Metallurgical and Materials Engineering and M.Tech. in Metallurgical and Materials Engineering	B.Tech. in Mechanical Engineering and M.Tech. in Thermal Science and Engineering	B.Tech. in Mechanical Engineering and M.Tech. in Manufacturing Engineering	B.Tech. in Mechanical Engineering and M.Tech. in Mechanical Systems Design
<b>09:00 AM - 12:00 PM (Forenoon)</b>								
19-11-2019 Tuesday	Mathematics in India: Ancient to Modern Times	Mathematics in India: Ancient to Modern Times	Mathematics in India: Ancient to Modern Times	Mathematics in India: Ancient to Modern Times	-	-	-	-
<b>2:30 PM - 5:30 PM (Afternoon)</b>								
18-11-2019 Monday	Design of Reinforced Concrete Structures	Formal Languages and Automata Theory	Design of Reinforced Concrete Structures	Power Electronics	Chemical metallurgy	Heat Transfer	Heat Transfer	Heat Transfer
19-11-2019 Tuesday	Environomics/ International Business/ Introduction to Indian Philosophy/ Managerial Economics	International Business/ Managerial Economics/ Global Communication/ Applied Organizational Psychology	Managerial Economics/ Introduction to Indian Philosophy/ International Business/ Environomics/ Global Communication	Managerial Economics/ Introduction to Indian Philosophy/ International Business/ Applied Organizational Psychology	Introduction to Indian Philosophy/ Global Communication/ Managerial Economics/ International Business	-	-	-
20-11-2019 Wednesday	Introduction to Ocean Dynamics/ Applied Thermodynamics/ Control System Technology/ Electrostatics for Engineers	Control System Technology/ Environmental Pollution Management/ Electrostatics for Engineers/ Applied Thermodynamics	Electrostatics for Engineers/ Control System Technology/ Introduction to Ocean Dynamics	Environmental Pollution Management/ Applied Thermodynamics/ Electrostatics for Engineers	Applied Thermodynamics	Control System Technology/ Environmental Pollution Management/ Introduction to Ocean Dynamics/ Electrostatics for Engineers	Environmental Pollution Management/ Introduction to Ocean Dynamics/ Control System Technology	Environmental Pollution Management/ Electrostatics for Engineers/ Control System Technology/ Introduction to Ocean Dynamics

<b>21-11-2019 Thursday</b>	-	Operating Systems	-	Electrical Power Transmission and Distribution	Corrosion and surface engineering	Systems & Control	Systems & Control	Systems & Control
<b>22-11-2019 Friday</b>	Water Resources Engineering	-	Water Resources Engineering	Measurement and Instrumentation	Mechanical properties and testing of materials	Casting, Welding and Forming	Casting, Welding and Forming	Casting, Welding and Forming
<b>23-11-2019 Saturday</b>	Soil Mechanics	-	Soil Mechanics	-	Phase transformation of materials	Design of Machine Elements	Design of Machine Elements	Design of Machine Elements
<b>25-11-2019 Monday</b>	-	Computer Organization and Architecture	-	Electromagnetic Field Theory	Mineral processing	-	-	-



**Indian Institute of Technology Bhubaneswar**  
**Autumn End-Semester Examination - 2019**  
**Dual Degree ( Semester-7 )**

Date / Day	<b>B.Tech. in Mechanical Engineering and M.Tech. in Mechanical Systems Design</b>	<b>B.Tech. in Civil Engineering and M.Tech. in Transportation Engineering</b>	<b>B.Tech. in Mechanical Engineering and M.Tech. in Thermal Science and Engineering</b>	<b>B.Tech. in Civil Engineering and M.Tech. in Structural Engineering</b>
<b>09:00 AM - 12:00 PM (Forenoon)</b>				
<b>18-11-2019 Monday</b>	Computer Aided Design & Manufacturing	Urban Transportation Planning	Computer Aided Design & Manufacturing	-
<b>19-11-2019 Tuesday</b>	Indian Philosophical Perspectives on Substance/ Emotional Intelligence/ Banking Theory and Practice	Indian Philosophical Perspectives on Substance/ Emotional Intelligence/ Banking Theory and Practice	Indian Philosophical Perspectives on Substance/ Banking Theory and Practice	Banking Theory and Practice/ Indian Philosophical Perspectives on Substance/ Emotional Intelligence/ Moral Thinking
<b>20-11-2019 Wednesday</b>	Vibrations	-	Advanced Fluid Dynamics	-
<b>21-11-2019 Thursday</b>	Advanced Solid Mechanics	Pavement Material Characterization	-	Dynamics of Structures
<b>22-11-2019 Friday</b>	-	-	-	Bridge Engineering
<b>23-11-2019 Saturday</b>	-	Design of Transportation Facilities and Safety	Computational Methods in Thermal & Fluid Engineering	Advanced Structural Analysis
<b>25-11-2019 Monday</b>	-	-	-	Construction Project Management



**Indian Institute of Technology Bhubaneswar**  
**Autumn End-Semester Examination - 2019**  
**B.Tech. ( Semester-1 )**

Date / Day	Civil Engineering	Computer Science and Engineering	Electronics and Communication Engineering	Mechanical Engineering	Electrical Engineering	Metallurgical and Materials Engineering
<b>2:30 PM - 5:30 PM (Afternoon)</b>						
18-11-2019 Monday	Mathematics - I	Mathematics - I	Mathematics - I	Mathematics - I	Mathematics - I	Mathematics - I
19-11-2019 Tuesday	Electrical Technology	Electrical Technology	Electrical Technology	Electrical Technology	Electrical Technology	Electrical Technology
20-11-2019 Wednesday	Physics	Physics	Physics	Physics	-	Physics
21-11-2019 Thursday	Chemistry	Chemistry	Chemistry	-	Chemistry	Chemistry
22-11-2019 Friday	Mechanics	Mechanics	Mechanics	Mechanics	-	Mechanics
23-11-2019 Saturday	Learning English/ English for Communication	Learning English/ English for Communication	Learning English	-	English for Communication/ Learning English	Learning English
25-11-2019 Monday	-	Introduction to Programing and Data Structures	Introduction to Programing and Data Structures	Introduction to Programing and Data Structures	Introduction to Programing and Data Structures	Introduction to Programing and Data Structures



**Indian Institute of Technology Bhubaneswar**  
**Autumn End-Semester Examination - 2019**  
**B.Tech. ( Semester-3 )**

Date / Day	Computer Science and Engineering	Mechanical Engineering	Electronics and Communication Engineering	Electrical Engineering	Civil Engineering	Metallurgical and Materials Engineering
<b>09:00 AM - 12:00 PM (Forenoon)</b>						
18-11-2019 Monday	Signals and Systems	Fluid Mechanics	Signals and Systems	Signals and Systems	Surveying	Thermodynamics of Materials
19-11-2019 Tuesday	Introduction to Economics/ Social Psychology/ Mathematics in India: Ancient to Modern Times/ Speaking and Presentation/ Introduction to Sanskrit, German and Comparative Linguistics	-	Introduction to Sanskrit, German and Comparative Linguistics/ Mathematics in India: Ancient to Modern Times/ Social Psychology/ Speaking and Presentation/ Introduction to Economics	Speaking and Presentation/ Mathematics in India: Ancient to Modern Times/ Introduction to Sanskrit, German and Comparative Linguistics/ Social Psychology/ Introduction to Economics	-	Social Psychology/ Mathematics in India: Ancient to Modern Times/ Introduction to Economics/ Introduction to Sanskrit, German and Comparative Linguistics/ Speaking and Presentation
20-11-2019 Wednesday	Data Structure	Introduction to Material Science and Engineering	Introduction to Material Science and Engineering	Introduction to Material Science and Engineering	Introduction to Material Science and Engineering	Introduction to Material Science and Engineering
21-11-2019 Thursday	Introduction to Bioscience and Technology	Introduction to Bioscience and Technology	Introduction to Bioscience and Technology	Introduction to Bioscience and Technology	Introduction to Bioscience and Technology	Introduction to Bio Science and Technology
22-11-2019 Friday	Introduction to Electronics	Theory of Machines - I	Introduction to Electronics	Introduction to Electronics	Solid Mechanics	-
23-11-2019 Saturday	Discrete Structures	Basic Electronics	-	-	Basic Electronics	Basic Electronics
25-11-2019 Monday	-	Transform Calculus	Probability, Statistics & Stochastic Processes	Probability, Statistics & Stochastic Processes	Probability, Statistics & Stochastic Processes	Numerical Methods



# Indian Institute of Technology Bhubaneswar

## Autumn End-Semester Examination - 2019

### B.Tech. ( Semester-5 )

Date / Day	Metallurgical and Materials Engineering	Electronics and Communication Engineering	Electrical Engineering	Civil Engineering	Computer Science and Engineering	Mechanical Engineering
<b>09:00 AM - 12:00 PM (Forenoon)</b>						
19-11-2019 Tuesday	Introduction to Sanskrit, German and Comparative Linguistics/ Mathematics in India: Ancient to Modern Times	Introduction to Sanskrit, German and Comparative Linguistics/ Mathematics in India: Ancient to Modern Times	Mathematics in India: Ancient to Modern Times/ Introduction to Sanskrit, German and Comparative Linguistics	Mathematics in India: Ancient to Modern Times/ Introduction to Sanskrit, German and Comparative Linguistics	Mathematics in India: Ancient to Modern Times/ Introduction to Sanskrit, German and Comparative Linguistics	-
<b>2:30 PM - 5:30 PM (Afternoon)</b>						
18-11-2019 Monday	Chemical metallurgy	Electromagnetic waves and Radiating Systems	Power Electronics	Design of Reinforced Concrete Structures	Formal Languages and Automata Theory	Heat Transfer
19-11-2019 Tuesday	Applied Organizational Psychology/ Global Communication/ Introduction to Indian Philosophy/ Managerial Economics/ International Business	Global Communication/ Introduction to Indian Philosophy/ International Business/ Environomics/ Managerial Economics/ Applied Organizational Psychology	Global Communication/ International Business/ Introduction to Indian Philosophy/ Applied Organizational Psychology/ Environomics/ Managerial Economics	Introduction to Indian Philosophy/ Managerial Economics/ International Business/ Applied Organizational Psychology/ Environomics/ Global Communication	Global Communication/ Managerial Economics/ International Business/ Environomics/ Introduction to Indian Philosophy/ Applied Organizational Psychology	-
20-11-2019 Wednesday	Electrodynamics for Engineers/ Introduction to Ocean Dynamics/ Applied Thermodynamics/ Environmental Pollution Management/ Control System Technology	Environmental Pollution Management/ Applied Thermodynamics/ Introduction to Ocean Dynamics/ Electrodynamics for Engineers	Electrodynamics for Engineers/ Environmental Pollution Management/ Applied Thermodynamics/ Introduction to Ocean Dynamics	Applied Thermodynamics/ Introduction to Ocean Dynamics/ Control System Technology/ Electrodynamics for Engineers	Electrodynamics for Engineers/ Introduction to Ocean Dynamics/ Environmental Pollution Management/ Control System Technology/ Applied Thermodynamics	Control System Technology/ Environmental Pollution Management/ Introduction to Ocean Dynamics/ Electrodynamics for Engineers
21-11-2019 Thursday	Corrosion and surface engineering	-	Electrical Power Transmission and Distribution	-	Operating Systems	Systems & Control
22-11-2019 Friday	Mechanical properties and testing of materials	Microprocessor and Microcontroller	Measurement and Instrumentation	Water Resources Engineering	-	Casting, Welding and Forming
23-11-2019 Saturday	Phase transformation of materials	-	-	Soil Mechanics	-	Design of Machine Elements



25-11-2019 Monday	Mineral processing	Digital Communication	Electromagnetic Field Theory	-	Computer Organization and Architecture	-
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**Indian Institute of Technology Bhubaneswar**  
**Autumn End-Semester Examination - 2019**  
**B.Tech. ( Semester-7 )**

Date / Day	Metallurgical and Materials Engineering	Electrical Engineering	Electronics and Communication Engineering	Civil Engineering	Computer Science and Engineering	Mechanical Engineering
<b>09:00 AM - 12:00 PM (Forenoon)</b>						
18-11-2019 Monday	Light metals and alloys	Switched Mode Power Conversion/ Digital Forensics - I/ Image and Video Processing	Image and Video Processing	Urban Transportation Planning/ Applied Soil Mechanics	Digital Forensics - I	Computer Aided Design and Manufacturing
19-11-2019 Tuesday	Materials in archaeology	Digital Control Systems	Network and Systems Security/ Optical Communication	Moral Thinking/ Indian Philosophical Perspectives on Substance/ Emotional Intelligence/ Banking Theory and Practice	Network and Systems Security	Banking Theory and Practice/ Indian Philosophical Perspectives on Substance/ Moral Thinking/ Emotional Intelligence
20-11-2019 Wednesday	Elements of electroceramics	Renewable Energy Systems	Communication Networks and Switching	-	Compiler Design	Operations Management
21-11-2019 Thursday	Polymers and nanocomposites	-	RF and Microwave Engineering	Open Channel Flows/ Pavement Material Charecterization/ Wastewater Treatment/ Dynamics of Structures	Advanced Algorithm	Gas Turbine & Jet Propulsion
22-11-2019 Friday	Advanced Physical Metallurgy	Theory and Analysis of Electric Drives/ Advanced Communication Engineering	Advanced Communication Engineering	Integrated Watershed Management	-	Finite Element Methods in Engineering
23-11-2019 Saturday	-	Electric Power Quality/ Internet of Things	Internet of Things/ Advanced Digital System Design	Solid Waste Management/ Surface Hydrology/ Advanced Structural Analysis/ Design of Transportation Facilities and Safety	Internet of Things/ Advanced Digital System Design	-
25-11-2019 Monday	-	-	-	Construction Project Management	-	Solar Energy



# Indian Institute of Technology Bhubaneswar

## Autumn End-Semester Examination - 2019

### M.Tech. ( Semester-1 )

Date / Day	Power Electronics and Drives	Computer Science and Engineering	Manufacturing Engineering	Electronics and Communication Engineering	Geotechnical Engineering	Transportation Engineering	Structural Engineering	Mechanical Systems Design	Climate Science and Technology	Thermal Science and Engineering	Power System Engineering	Metallurgical and Materials Engineering	Water Resources Engineering	Environmental Engineering
<b>09:00 AM - 12:00 PM (Forenoon)</b>														
18-11-2019 Monday	Switched Mode Power Conversion	Digital Forensics - I	Robotics and Automation	Image and Video Processing	Applied Soil Mechanics	Urban Transportation Planning	Applied Soil Mechanics	Robotics and Automation	Physics of Atmosphere and Ocean	Advanced Thermodynamics	Switched Mode Power Conversion	Materials Characterization	-	-
19-11-2019 Tuesday	Power System Analysis and Operation	Network and Systems Security	Lasers in Manufacturing	Optical Communication	Computational Geomechanics	Finite Elements Methods in Engineering	Finite Elements Methods in Engineering/ Computational Geomechanics	Sensing and Actuation	Dynamics of Atmosphere and Ocean	-	Power System Analysis and Operation	Heat Treatment of Materials	Water Treatment and Supply	Water Treatment and Supply
20-11-2019 Wednesday	Mathematical Methods	Mathematical Methods	Operations Management	Antenna Theory/ Mathematical Methods	Mathematical Methods	Mathematical Methods	-	Vibrations	Earth and Its Interior	Advanced Fluid Dynamics	Mathematical Methods	Advanced Thermodynamics and Kinetics	Mathematical Methods	Mathematical Methods
21-11-2019 Thursday	-	Advanced Algorithm	Advanced Manufacturing Processes-I	-	Multi-hazard design of foundation	Pavement Material Characterization	Dynamics of Structures	Advanced Solid Mechanics	Mathematical and Statistical Methods in Earth System Science	Gas Turbine & Jet Propulsion	Theory and Analysis of Electric Drives	Materials Processing	Open Channel Flows	Wastewater Treatment
22-11-2019 Friday	Theory and Analysis of Electric Drives	-	Design and Analysis of Welded Structures/ Finite Element Methods in Engineering	Advanced Communication Engineering	-	Bridge Engineering	Bridge Engineering	Finite Element Methods in Engineering	Satellite Oceanography and Meteorology	Mathematical Methods for Mechanical Engineers	-	Advanced Physical Metallurgy	Integrated Watershed Management	Environmental Chemistry and Microbiology
23-11-2019 Saturday	Electric Power Quality	Internet of Things	Machining Science	Advanced Digital System Design	-	Design of Transportation Facilities and Safety	Advanced Structural Analysis	-	Atmospheric Chemistry & Aerosol	Computational Methods in Thermal & Fluid Engineering	Electric Power Quality	-	Surface Hydrology	Solid Waste Management
25-11-2019 Monday	Renewable and Distributed Energy Sources	-	-	-	Construction Project Management	Construction Project Management	Construction Project Management	-	-	Solar Energy	Renewable and Distributed Energy Sources	-	-	-
<b>2:30 PM - 5:30 PM (Afternoon)</b>														
25-11-2019 Monday	-	-	-	-	-	-	-	-	Introduction to Atmospheric Radiation	-	-	-	-	-



**Indian Institute of Technology Bhubaneswar**  
**Autumn End-Semester Examination - 2019**  
**M.Sc. ( Semester-1 )**

Date / Day	Mathematics	Geology	Chemistry	Physics	Atmosphere and Ocean Sciences
<b>09:00 AM - 12:00 PM (Forenoon)</b>					
18-11-2019 Monday	Discrete Mathematics	Understanding Earth System	Inorganic Chemistry- Structure, Principle and Reactivity	Electronics	Physics of Atmosphere & Ocean
19-11-2019 Tuesday	Probability and Statistics	Structural Geology	Concept of Organic Synthesis	Classical Mechanics	Dynamics of Atmosphere & Ocean
20-11-2019 Wednesday	Computer Programming and Data Structures	Igneous and Metamorphic Petrogenesis	-	Mathematical Physics	Fundamental of Meteorology & Oceanography
21-11-2019 Thursday	Linear Algebra	-	Introduction to Quantum Chemistry	-	Mathematical and Statistical Methods in Climate Science
22-11-2019 Friday	-	Advanced Mineralogy & Crystallography	Mathematics for Chemists	Quantum Mechanics - I	-
23-11-2019 Saturday	Real Analysis	-	-	Electrodynamics - I	Atmospheric Chemistry and Aerosol
25-11-2019 Monday	-	Computational Geosciences	-	Introduction to Computational Methods	Modelling of Dynamical Processes of Ocean and Atmosphere



**Indian Institute of Technology Bhubaneswar**  
**Autumn End-Semester Examination - 2019**  
**M.Sc. ( Semester-3 )**

Date / Day	Physics	Chemistry	Atmosphere and Ocean Sciences	Geology	Mathematics
<b>2:30 PM - 5:30 PM (Afternoon)</b>					
18-11-2019 Monday	Nuclear and Particle Physics	Analytical Chemistry	Micro Meteorology and Oceanography	Ore Geology	Functional Analysis
19-11-2019 Tuesday	-	Organometallic strategies in Organic Synthesis	Atmospheric Diffusion, Air and Water Pollution	Coal and Petroleum Geology	Optimization Techniques
20-11-2019 Wednesday	Semiconductor Physics/ Fluid Dynamics	Advanced Heterocyclic Chemistry	Objective Analysis and Data Assimilation	-	Fluid Dynamics
21-11-2019 Thursday	-	Advanced Polymer Chemistry	Satellite Oceanography	-	-
22-11-2019 Friday	Advanced Statistical Physics	-	Basics of Fluid Dynamics	Basics of Fluid Dynamics	Differential Geometry
23-11-2019 Saturday	-	-	Geothermal Energy	Geothermal Energy	Numerical Solution of Ordinary and Partial Differential Equations/ Algebraic Graph Theory
25-11-2019 Monday	Condensed Matter Physics	-	Introduction to Atmospheric Radiation	Borehole Geophysics/ Heat and Mass Transfer in Earth System	Continuum Mechanics



# Indian Institute of Technology Bhubaneswar

## Autumn End-Semester Examination - 2019

### Ph.D.

Date / Day	Geosciences	Electronics and Communication Engineering	Electrical Engineering	Mathematics	Geology	Mechanical	Bioscience	ATMOSPHERE OCEAN SCIENCES	Infrastructure	Physics	English	SMMME	Chemistry	Economics	SHSSM	
<b>09:00 AM - 12:00 PM (Forenoon)</b>																
18-11-2019 Monday	Physics of Atmosphere and Ocean	Image and Video Processing	Switched Mode Power Conversion	-	-	-	-	-	-	-	-	-	-	-	-	
19-11-2019 Tuesday	-	-	Power System Analysis and Operation	-	-	-	-	-	-	-	-	-	-	-	-	
20-11-2019 Wednesday	-	Mathematical Methods/ Antenna Theory	Mathematical Methods	Advanced Fluid Dynamics/ Mathematical Methods	-	-	-	-	-	-	-	-	-	-	-	
21-11-2019 Thursday	-	-	-	-	Mathematical and Statistical Methods in Earth System Science	-	-	-	-	-	-	-	-	-	-	
22-11-2019 Friday	-	-	-	Finite Element Methods in Engineering	-	Mathematical Methods for Mechanical Engineers	Environmental Chemistry and Microbiology	-	-	-	-	-	-	-	-	
23-11-2019 Saturday	-	Advanced Digital System Design	-	Computational Methods in Thermal & Fluid Engineering	-	Computational Methods in Thermal & Fluid Engineering/ Machining Science	-	Atmospheric Chemistry and Aerosol	Solid Waste Management	-	-	-	-	-	-	
25-11-2019 Monday	-	-	Renewable and Distributed Energy Sources	-	-	Solar Energy	-	-	Construction Project Management	-	-	-	-	-	-	
<b>2:30 PM - 5:30 PM (Afternoon)</b>																
19-11-2019 Tuesday	Research Methodology and Data Analysis	-	Research Methodology and Data Analysis/ Introduction to Machine Learning	Research Methodology and Data Analysis	Analytical & Measurement Techniques	Research Methodology and Data Analysis	Research Methodology and Data Analysis	Research Methodology and Data Analysis	Research Methodology and Data Analysis	Research Methodology and Data Analysis	Research Methodology and Data Analysis	Research Methodology and Data Analysis	Research Methodology and Data Analysis	Research Methodology and Data Analysis/ Organometallic strategies in Organic Synthesis	Research Methodology and Data Analysis	-

20-11-2019 Wednesday	Neotectonics & Paleoseismology/ Isotope Hydrology	-	-	-	-	-	Structure and Function of Biomolecules	-	-	Semiconductor Physics	Indian Writing in English (FICTION)	Advanced Electrochemical Methods	Advanced Heterocyclic Chemistry	Special Areas of Environmental Economics	Special Areas of Environmental Economics/ Indian Writing in English (FICTION)
21-11-2019 Thursday	Scientific and Technical Writing	Scientific and Technical Writing	Scientific and Technical Writing	Scientific and Technical Writing	-	Scientific and Technical Writing	-	Scientific and Technical Writing	Scientific and Technical Writing	Scientific and Technical Writing	Scientific and Technical Writing	Scientific and Technical Writing	Scientific and Technical Writing/ Advanced Polymer Chemistry	Scientific and Technical Writing	-
22-11-2019 Friday	-	-	-	-	-	-	-	-	-	Advanced Statistical Physics	Introduction to Literature	-	-	Management of International Business	Introduction to Literature/ Management of International Business
23-11-2019 Saturday	-	-	-	Numerical Solution of Ordinary and Partial Differential Equations/ Algebraic Graph Theory	-	-	-	-	-	-	Contemporary World Literature	-	-	-	Contemporary World Literature
25-11-2019 Monday	-	-	-	-	-	-	-	-	-	-	-	Condensed Matter Physics	-	-	-