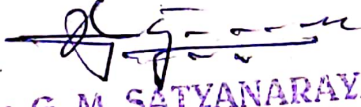


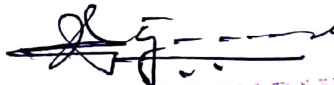
B. E. MECHANICAL ENGINEERING				
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)				
SEMESTER – V				
ENVIRONMENTAL STUDIES				
Course Code	18CIV59	CIE Marks	40	
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60	
Credits	01	Exam Hours	02	
Module - 1				
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. 02 Hrs Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.				
Module - 2				
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. 02 Hrs Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.				
Module - 3				
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution. 02 Hrs Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.				
Module - 4				
Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.				
Module - 5				
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. 03 Hrs Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.				
Course Outcomes: At the end of the course, students will be able to:				
<ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale, • CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues. 				
Question paper pattern:				
<ul style="list-style-type: none"> • The Question paper will have 100 objective questions. • Each question will be for 01 marks • Student will have to answer all the questions in an OMR Sheet.. • The Duration of Exam will be 2 hours. 				
Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012

2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition 2018
3	Environmental Studies – From Crisis to Cure	R Rajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, AnoopSingh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition


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B.E., M. ech., PhD
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CHIKKAMAGALURU - 577 102
KARNATAKA - INDIA

B. E. MECHANICAL ENGINEERING			
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)			
SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> • know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens • Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. • Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			
Professional / Engineering Ethics: Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering			
Module-5			
Internet Laws, Cyber Crimes and Cyber Laws: Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.			

Course Outcomes: On completion of this course, students will be able to,				
<ul style="list-style-type: none"> • CO1: Have constitutional knowledge and legal literacy. • CO2: Understand Engineering and Professional ethics and responsibilities of Engineers. • CO3: Understand the the cybercrimes and cyber laws for cyber safety measures. 				
Question paper pattern for SEE and CIE:				
<ul style="list-style-type: none"> • The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type (MCQ). • For the award of 40 CIE marks, refer the University regulations 2018. 				
Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbooks				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004


Dr. G. M. SATYANARAYANA
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 KARNATAKA - INDIA

"Jai Sri Gurudev"

Sri Adichuchanagiri Shikshana Trust ®

Adichuchanagiri Institute of Technology

Lyothinagar, Chikkamagaluru - 577 102

Student Induction Program Phase II For First Year B.E. Students

Venue: BGS Seminar Hall

Time table shedule for Induction Program

Day	Time	Activity	Resource Person	Day Coordinator
12-05-2021 (Day 1)	10.00 AM - 11.30 AM	Present scenario of electrical power generation and it's analogy	Prof. R D Satyanarayana Rao	Dr. Raghavendra S (Physics Dept.)
	11.30 AM- 01.00 PM	Highlights of civil engineering	Dr. Rame Gowda	
13-05-2021 (Day 2)	10.00 AM - 11.30 AM	Bio diesel and application's	Prof. Suchith Kumar	Dr. Nagaraju S (Physics Dept.)
	11.30 AM- 01.00 PM	Conservation of energy(tentative)	Dr. B M Kiran	
15-05-2021 (Day 3)	10.00 AM - 11.30 AM		Dr. Jagadeesh Chandra	Prof. Syed Nizamuddin (Chemistry Dept.)
	11.30 AM- 01.00 PM		Dr. Tharanath	
17-05-2021 (Day 4)	10.00 AM - 11.30 AM	Introduction to modern technologies	Prof. B R Nanjesh	Dr. Nagaraju S (Physics Dept.)
	11.30 AM- 01.00 PM		Dr. Anil Kumar	
18-05-2021 (Day 5)	10.00 AM - 11.30 AM	Digital marketing	Prof. I A Ravi	Prof. Syed Nizamuddin (Chemistry Dept.)
	11.30 AM- 01.00 PM	Image processing using MAT Lab	Prof. Raghurame Gowda	

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Adichuchanagiri Institute of Technology

Jyothinagar, Chikkamagaluru to 577 102

Induction Program For First Year B.E. Students 2021 - 22

Day	Time	Activity	Resource Person	Day Coordinator
13/12/21	09.30 AM to 10.00 AM	Inauguration	Dr. C T Jayadeva, Principal, AIT	Dr. E. NALINI (Dept. Of Chemistry)
	10.15 AM to 12.15 PM	Motivational Talk	Mr. Naga Prasad	
14/12/21	09.30 AM to 10.15 AM	Influence of Smart Phone on Youths	Dr. Vinith H P Asst. Professor Dept. of MBA, AIBM	Dr. S. NAGARAJU (Dept. Of Physics)
	10.30 AM to 12.15 PM	National Education Policy 2020	Dr. Murali S, MIT Mysore	
15/12/21	09.30 AM to 11.00 AM	Communicative English	Mr. Sidharth Placement Officer AIT	Dr. S. RAGHAVENDRA (Dept. Of Physics)
	11.00 AM to 12.45 PM	Motivational Talk	Hiremagaluru Kannan & Mrs. Nagashree	
16/12/21	09.30 AM to 11.00 AM	How to overcome fear	Mr. Sanga Reddy B K Asst. Professor Dept. of CS & E, AIT	Mr. SYED NIZAMUDDIN (Dept. Of Chemistry)
	11.00 AM to 12.45 PM	Yoga and Mental Health	Dr. Vinay Kumar K S District Psychiaraterist Chikkamagalur	
17/12/21	09.30 AM to 11.00 AM	Life is a wonderful Journey	Mr. Tripuranthaka G L Coordinator JSS, Mysore	Dr. S. NAGARAJU (Dept. Of Physics)
	11.15 AM to 12.45 PM	Placement	Mr. Sidharth Placement Officer AIT	
18/12/21	09.30 AM to 11.00 AM	VTU Regulations	Mr. Basavarajappa M P Assoc. Professor Dept. of ME, AIT	Dr. S. RAGHAVENDRA (Dept. Of Physics)
	11.00 AM to 12.45 PM	ಕನ್ನಡ ಸಾಹಿತ್ಯ : ಇತಿಹಾಸ ಮತ್ತು ಪರಂಪರೆ	Dr. Manjula H P Asst. Director Dept of Youth Empowerment and Sports	

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||Jai Sri Gurudev||

Sri Adichuchanagiri Shikshana Trust

Adichuchanagiri Institute of Technology

Jyothinagar, Chikkamagaluru - 577 102

Induction Program For First Year B.E. Students 2021-22

Day	Time	Activity	Resource Person	Day Coordinator
13/12/21	09.30 AM - 10.00 AM	Inauguration	Dr. C T Jayadeva	Dr. E. NALLINI (Dept. Of Chemistry)
	10.15 AM - 12.15	Motivational Talk	Mr. Naga Prasad	
14/12/24	09.30 AM - 10.15 AM	Influence of Smart Phone on Youths	Mr. Vinit H P	Dr. S. NAGARAJU (Dept. Of Physics)
	10.30 AM - 12.00	National Education Policy 2020	Dr. Murali S MIT Mysore	
15/12/21	09.30 AM - 11.00 AM	Communicative English	Mr. Sidharth	Dr. S. RAGHAVENDRA (Dept. Of Physics)
	11.00 AM - 12.45 PM	How to overcome fear	Kannan Mama & Mrs. Nagashree	Mr. SYED NIZAMUDDIN (Dept. Of Chemistry)
16/12/21	09.30 AM - 11.00 AM	Yoga and Mental Health	Mr. Sanga Reddy B K	Dr. S. NAGARAJU (Dept. Of Physics)
	11.00 AM - 12.45 PM	Life is a wonderful Journey	Dr. Vinay Kumar K S	
17/12/21	09.30 AM - 11.00 AM	Placement	Mr. Tripuranthaka G L	Dr. S. RAGHAVENDRA (Dept. Of Physics)
	11.15 AM - 12.45 PM	VTU Regulations	Mr. Sidharth	
18/12/21	09.30 AM - 11.00 AM	Kannada Sayhithya : Parampare matthu lthhasa	Mr. Basavarajappa M P	Dr. S. RAGHAVENDRA (Dept. Of Physics)
	11.00 AM - 12.45 PM		Dr. Manjula H P	



|| Jai Sri Gurudev ||
Sri Adichunchanagiri Shikshana Trust ®



Adichunchanagiri Institute of Technology

(Affiliated to VTU, Belagavi, Recognised by AICTE, New Delhi,
Accredited by NAAC & ISO 9001:2008 Certified)
Chikkamagaluru - 577102, Karnataka



INDUCTION PROGRAMME - II

For First Year B.E. Students

❧ **With the Divine Blessings** ❧

His Holiness Paramapoojya Jagadguru Padmabhushana
Sri Sri Sri Dr. Balagangadharanatha Mahaswamiji

❧ **Divine Presence** ❧

His Holiness Jagadguru

Sri Sri Sri Dr. Nirmalanandanatha Mahaswamiji

Pontiff, Sri Adichunchanagiri Mahasamsthana Math

❧ **Gracious Presence** ❧

His Holiness

Sri Sri Gunanatha Swamiji

Sri Adichunchanagiri Mahasamsthana Math, Sringeri, Chikkamagaluru Branch

❧ **Chief Guests** ❧

Dr. K.P. Puthuraya

Former Director,
Rajiv Gandhi University of Health Science,
writer, orator, thinker & Educationist

Sri Prabhu .G I.A.S

Chief Executive Officer
Zilla Panchayath
Chikkamagaluru

Date : 15-06-2022

Time : 10.00 AM

Venue : S.T.N. Amphitheatre, AIT Campus

Dr. C.T. Jayadeva

Principal

Dr. C.K. Subbaraya

Director

All Are Cordially Invited
Management & Staff