



**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES**

UGC AUTONOMOUS

(Permanently Affiliated to Andhra University, Approved by AICTE, Accredited by NBA & NAAC with 'A' Grade)  
SANGIVALASA -531 162, BHEEMUNIPATNAM MANDAL , VISAKHAPATNAM DT.

**IV/IV B.TECH II-SEMESTER SUPPLEMENTARY EXAMINATIONS: DECEMBER-2020  
(OFFLINE EXAM)**

**R15- 316 Admitted Batch**

**Dt : 12-12-2020**

DATE, DAY & TIME	CHEMICAL	CIVIL	CSE	ECE	EEE	IT	MECH
28/12/2020 <b>(Monday)</b> 09.30 AM – 11.45 AM	Chemical Process Economics and Equipment Design	Ground Improvement Techniques (Professional Elective-III)	1.Big Data Analytics (Professional Elective-IV)	Cellular and Mobile Communications	Engineering Economics & Management	1.Internet of Things (Professional Elective-V) 2.Enterprise Resource Planning (Professional Elective-V)	Instrumentation & Control Systems
29/12/2020 <b>(Tuesday)</b> 09.30 AM – 11.45 AM	1. Process Optimization (Professional Elective-IV) 2. Biochemical Engineering (Professional Elective-IV)	Advanced Building Construction (Professional Elective-IV)	—	Optical Communications (Professional Elective-III)	Energy Management & Control	—	Non-Conventional Sources of Energy (Dept Elective-IV)
30/12/2020 <b>(Wednesday)</b> 09.30 AM – 11.45 AM	—	Engineering Economics & Finance	—	1.Satellite Communications & GPS (Professional Elective-IV) 2. VLSI Signal Processing (Professional Elective-IV)	—	—	—

ENCL: Model Paper

*M 12/12/20*  
**CONTROLLER OF EXAMINATIONS  
(Prof. N V N Indra Kiran)**

**Dean & COE  
ANITS  
Sangivalasa  
Visakhapatnam**

*24/12*  
**PRINCIPAL  
(Prof. T V Hanumantha Rao)**  
Principal  
Anil Neerukonda Institute  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.



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DATE, DAY & TIME	CHEMICAL	CIVIL	CSE	ECE	EEE	IT	MECH
28/12/2020 <b>(Monday)</b> 09.30 AM – 11.45 AM	Chemical Process Economics and Equipment Design	Ground Improvement Techniques (Professional Elective-III)	1. Fuzzy Computing (Professional Elective-V) 2. Cloud Computing (Professional Elective-V)	Cellular and Mobile Communications	Engineering Economics & Management	E-Commerce (Professional Elective-IV)	Instrumentation & Control Systems
29/12/2020 <b>(Tuesday)</b> 09.30 AM – 11.45 AM	1. Industrial Management (Professional Elective-IV) 2. Biochemical Engineering (Professional Elective-IV)	—	—	Optical Communications (Professional Elective- III)	Energy Management & Control	Cyber Security (Professional Elective-V)	Non-Conventional Sources of Energy (Dept Elective-IV)
30/12/2020 <b>(Wednesday)</b> 09.30 AM – 11.45 AM	—	Engineering Economics & Finance	—	1. Satellite Communications & GPS (Professional Elective-IV) 2. VLSI Signal Processing (Professional Elective- IV)	—	—	—

Encl = model paper

*M ~ 12/12/2020*

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**MODEL PAPER**  
**IV/IV B.Tech II SEM SUPPLY EXAMS**

**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES**  
**(AUTONOMOUS)**

**Time: 2 hrs 15 minutes**

**Max Marks: 4x15m=60m**

Answer **ANY FOUR** Questions one question from each Unit

All Questions Carry Equal Marks (15 Marks)

All parts of the question must be answered in one place only

**Unit-I**

1. a) What are renewable and non-renewable resources? Give examples? (7M)  
b) How would environmental awareness help to protect our environment? (8M)  
(Or)
2. a) What are the major causes of deforestation? (7M)  
b) Mention the environmental impacts of modern agriculture? (8M)

**Unit-II**

3. a) Discuss the models of energy flow in an ecosystem? (7M)  
b) What is Homeostasis? What are the feedback mechanisms? (8M)  
(OR)
4. a) Comment upon Indian Biodiversity with special reference as a mega diversity nation? (7M)  
b) What is meant by insitu and exsitu conservation of Biodiversity? Give Examples? (8M)

**Unit-III**

5. a) Mention some major implications of enhanced global warming? (7M)  
b) Enumerate the various methods for control of air pollution? (8M)  
(OR)
6. a) What are the major impacts of acid rains and how can we control it? (7M)  
b) Classify solid waste? What are the sources of urban and industrial solidwastes? (8M)

**Unit-IV**

7. a) Define EIA? Mention some advantages? (7M)  
b) What do you mean by sustainable development? What are the major measures to attain sustainability? (8M)  
(OR)
8. a) What is meant by Population explosion? Discuss the Indian scenario? (7M)  
b) What is Rainwater harvesting? Mention the purposes served by it? (8M)

**Unit-V**

9. a) Describe briefly about Silent valley project? (7M)  
b) Discuss the salient features of Wildlife(Protection) Act, 1972? (8M)  
(OR)
10. a) Write a short note on Stockholm Conference? (7M)  
b) How do you define pollution as per Water (Prevention and Control of Pollution) Act, 1974? Mention some salient features of the Act? (8M)

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