



G.Pullaiah College of Engineering and Technology

(Autonomous)

(Approved by AICTE, New Delhi | NAAC Accreditation with 'A' Grade |

Accredited by NBA (CSE, ECE & EEE) | Affiliated to JNTUA)

Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

DATE: 10-03-2023

To

The Principal,
GPCET,
Kurnool.

Sir,

Sub: Approval of ADD-ON course for III CE & IV CE Students-Regd

The department of CE requests you to accept the proposal for conducting ADD-ON Course on "Ports and Harbours" for the odd semester of III & IV year CE students scheduled for the duration of 42 hours . Kindly accept the proposal.

Thanking you sir,

Yours Sincerely

HOD-CE
PRINCIPAL

G.Pullaiah College of Engg & Tech.
Nandikotkur Road, VENKAYAPALLI
KURNOOL-518 452 (A.P)



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Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

Department Circular –ADD-ON Course

DATE: 11-03-2023

The III year & IV year-I semester CE Students are informed to enroll their names for ADD-ON Course on “**Ports and Harbours**” with their respective class-in-charges on or before 12-03-2023. The course commences from 13th March and the duration of the course is for 42 hours. The course is conducted from 4 pm to 5 pm regularly.

Bus facility is made available soon after the class work.

HOD-CE

SYLLABUS FOR ADD-ON COURSE ON PORTS AND HARBOURS

DAY	TOPICS
1	Layout of ports
2	Ships and size of ships
3	Port planning
4	Harbour layout
5	Navigational channel
6	Bathymetric survey
7	Tide, surge, Tsunami and Waves
8	Wave rose diagram
9	Breakwater
10	Design of breakwater
11	Design of breakwater
12	Berm breakwater
13	Dredging and methods of disposal
14	Berthing structures
15	Design of berthing structures
16	Design of berthing structures
17	Offshore structures
18	Seismic forces
19	Fenders
20	Mechanical handling systems
21	Pile load test
22	Analysis of pile with spring support
23	Analysis of pile with spring support
24	Problems
25	Problems



G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
ADDON COURSE SCHEDULE

Date: 09/04/2022

III & IV YEAR – II Semester		
Course	Faculty	Duration
Introduction	Mr S Akhil Tej	2 hours
Socio-Technical complexity of infrastructures	Mr S Akhil Tej	2 hours
Critical infrastructures	Mr S Akhil Tej	2 hours
Fuzzy borders	Mr S Akhil Tej	2 hours
Role of standards	Mr S Akhil Tej	2 hours
Complex theory of assessing infrastructure	Mr S Akhil Tej	2 hours
Interdependencies of infrastructure	Mr S Akhil Tej	2 hours
Smart grids	Mr S Akhil Tej	2 hours
ICT architecture	Mr S Akhil Tej	2 hours
Key challenges of infrastructure	Mr S Akhil Tej	2 hours
System approach	Mr S Akhil Tej	2 hours
Smart grids	Mr S Akhil Tej	2 hours
ICT-Architecture	Mr S Akhil Tej	2 hours
ICT-Architecture-Cyber security	Mr S Akhil Tej	2 hours
Governance of complex infrastructure	Mr S Akhil Tej	2 hours



Regulation of complex infrastructure	Mr S Akhil Tej	2hours
Tools	Mr S Akhil Tej	2 hours
Instruments	Mr S Akhil Tej	1 hours
Frameworks for policy making	Mr S Akhil Tej	2 hours
Resilient infrastructure	Mr S Akhil Tej	2 hours
Secure infrastructure	Mr S Akhil Tej	1 hours
Outdated infrastructure	Mr S Akhil Tej	2 hours



G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY::KURNOOL (Autonomous)

Department of Civil Engineering

The following is the list of the students who have registered Add on Course on "Ports & Harbours"

S.No	Roll No	Name of the Candidate
1	20AT1A0101	JADE NAGASAI
2	20AT1A0102	VADDE BATHULA AKASH RAJU
3	20AT1A0103	SHAIK AKASH SHAJIL
4	20AT1A0104	MD.M.AMAN
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41	20AT1A0146	P SRIYA
42	20AT1A0147	NOOLI SHREYA EVANGLIN
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58	21AT5A0104	GAGGERA SIREESHA
59	21AT5A0105	GOLLA VEERABOINA SRIKANTH YADAV
60	21AT5A0106	GUNNA SREENIVAS
61	21AT5A0107	KANNA RAVI KUMAR
62	21AT5A0108	NALLAJANNA GARI BHARATHI
63	21AT5A0110	SANDYA SWETHA
64	21AT5A0111	SYED GHOUSE PEER

IV CE

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55	19AT1A0157	GOLLA VIJAY KUMAR



56	19AT1A0158	RENTACHINTALA YASHWANTH SHARMA
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65	18AT5A0107	VELURI SAI PRUTHVI





G. PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Department Of Civil Engineering

ADD ON PROGRAM



Topic : Ports and Harbars
Target audience : II and III Year Students
Total Courses hrs : 42 hrs
Selection Procedure : Registration on First
come First serve basis
Venue : Seminar Hall



Date of commncement the course : 13 March, 2023. End of
Course : 20 April, 2023. Exam Date: 24 April,2023.



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Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

1. How many components does a harbour comprise of
a) 5 b) 10 c) 15 d) 20
2. The solid parallel platform in a harbour with berthing facility on one side only is:
a) Pier b) Quay c) Wharf d) Jetty
3. The open type of wharves are made of:
a) Timber b) R.C.C. c) Timber, R.C.C. or both d) Earth or rock fill
4. The marine structure located alongside or at the entrance of a pier or a wharf is:
a) Pier heads b) Dolphins c) Breakwater d) Fenders
5. The alignment of breakwater should be:
a) Horizontal b) Straight c) Perpendicular d) Diagonal
6. Which of the following can be considered as inland water transportation
a) Transportation by river b) Transportation by culvert c) Transportation on bridge d) Transportation by barrage
7. Which of the following can act as an advantage of water transportation?
a) Tides b) Less development c) Costly mode of transportation d) Cheap mode of transportation
8. A basin which can protect water well from the actions of wind and waves can be designated as
a) Quarry b) Basin c) Harbor d) Port
9. Which of the following is considered in case stable floating condition of ship
a) Vertical measurement b) Horizontal measurement c) Linear measurement d) Draft
10. Which of the following will not come under the category of harbor classification
a) Natural harbor b) Semi artificial harbor c) Artificial harbor d) Semi natural harbor

11. On what basis a harbor can be designated as natural roadstead?
a) Semi artificial harbor b) Artificial harbor c) Navigable channel d) Semi natural harbor
12. Which of the following harbor areas are having artificial protection
a) Vishakhapatnam port b) Mumbai port c) Kakinada port d) Yanam port
13. According to the recommendations of International Navigational Congress in 1912, the ratio of length to width at the entrance for cargo vessels is
a) 5.5 and 6.0 to 1 b) 6.2 and 6.8 to 1 c) 7.4 and 7.8 to 1 d) 8.2 and 8.5 to 1
14. Flow of air from one place to the other is caused due to
a) The sum of elevation b) pressure head c) velocity head d) all of the above
15. A low wall built out into the sea more or less perpendicular to the coast line, to resist the travel of sand and shingle along a beach, is called
a) break water b) break wall c) groins d) shore wall
16. The operation of removing material from the sea or river bed is known as
a) Mining b) Dredging c) Digging d) None of these
17. Depth of borings for soil investigation, is generally kept below low water level
a) 30 m b) 35 m c) 45 m d) 40 m
18. A harbour is a place where
(a) Ships get shelter and protection against destructive forces due to sea waves
(b) Facilities are provided for receiving cargo and passengers
(c) Buildings are constructed for commercial purposes
(d) All of the above
19. The line where the hull meets the water surface is called the
(a) Waterline (b) Surface line (c) Draft line (d) Board line
20. The size of a single, standard _____ long container is used as an indication for container ship size or capacity.
(a) 10 Metres (b) 10 feet (c) 20 feet (d) 20 metres
21. DWT stands for _____.
(a) Design Weight Tonnage (b) Design Water Tonnage (c) Dead Water Tonnage (d) Dead Weight Tonnage



22. _____ is not the component of harbour.
(a) Dock (b) Jetty (c) Squat (d) Turning Basin
23. Plimsoll Mark or the Load Line is marked on the _____ of ship.
(a) Bilge (b) Draft (c) Beam (d) Hull
24. Beam of a vessel means the _____ of vessel.
(a) Width (b) Length (c) Height (d) Cross Section
25. The smoothened surface of the front face of the quay walls, is known as fending which is made of
a) granite stone b) timber c) steel d) all the above.

Bas

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Department of Civil Engineering

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64	21AT5A0111	SYED GHOUSE PEER	ABSENT

2019 batch students

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