Government Engineering College, Dahod.

Electrical Engineering Department

BE-Sem-IV (Electrical Engg) Applied Thermal & Hydraulic Engineering (2140907)

Topics for ALA

Group Nos.	Enrollment Nos.	Topic
1	140180109039 140180109107 140140109108 140180109106 140180109072	Rankine cycle and its thermal efficiency
2	140180109027 140180109085 140180109045 140180109057 140180109011 140180109088 140180109112	Theoretical Gas Turbine cycle and its thermal efficiency
3	150183109038 150183109025 150183109024 150183109020 150183109013	Methods of Improvement of Rankine cycle-Reheat
4	150183109017 150183109028 150183109008 150183109028 150183109002	Actual Gas Turbine cycle and its thermal efficiency
5	150183109003 150183109005 150183109021 150183109019 150183109023	Methods of Improvement of Gas turbine cycle-Regenerative cycle
6	150183109022 150183109033 150183109032 150183109042 150183109026	Methods of Improvement of Gas turbine cycle-Reheat cycle
7	140180109101 140180109097 140180109096 140180109036	Methods of Improvement of Gas turbine cycle-Intercooling

8	140180109053 140180109023 140180109047 140180109118 140180109017	Vapor compression refrigeration system
9	140180109120 140180109087 150183109031 150183109034	Air cycle refrigeration system
10	150183109016 140180109025 140180109089 140180109111 140180109082	Centrifugal pump-Classification and components, velocity diagram
11	140180109021 140180109008 140180109022 140180109036 140180109062	Reciprocating pump-Classification and work done and power required
12	140180109024 140180109084 140180109030 140180109098 140180109037	Pelton wheel- main parts, velocity triangle and work done
13	140180109083 140180109086 140180109079 140180109103	Reaction turbine-classification, construction, efficiencies
14	140180109075 140180109007 140180109040 140180109038	Conduction through a slab and hollow cylinder
15	140180109035 140180109009 140180109116 140180109115 140180109026	Critical thickness of insulation
16	140180109091 140180109092 140180109093 140180109094 140180109095	Heat conduction through composite wall and cylinder

17	140180109006 140180109012 140180109029 140180109012 140180109050	Fins and their applications
18	140180109077 140180109071 140180109078 140180109081	Radiation laws
19	140180109069 140180109063 140180109065 140180109039 140180109105	LMTD for parallel flow heat exchangers
20	130180109087 130180109074 140180109113 140180109114	LMTD for counter flow heat exchangers
21	150183109009 150183109006 150183109119 150183109117	Methods of Improvement of Rankine cycle-Regenerating
22	140180109044 140180109032 140180109015 140180109055 140180109049	Pressure measuring instrument-Manometers-types
23	150183109010 150183109014 150183109015 150183109018 150183109037	Flow measuring instruments-Venturimeter, Orifice meter & Nozzle
24	140180109052 140180109018 140180109003 140180109074 140180109073 140180109070	Continuity , momentum and Bernoulli’s Equation
25	140180109007 140180109038 140180109040 140180109075	Notches, weirs & pitot tubes

General Instructions:

- First Slide should contain Topic Name, Subject Name with Code, Students Name, Enrollment Number, College Name & Branch
- Second Slide should contain Content/Index
- PPT should contain animations ,Videos and good quality pictures
- Advantages, Disadvantages, application and suitable simple numerical should be covered (If applicable)
- At the end of PPT, a slide of References from where the content have taken for the topic (i.e. Books details -author, page number, publication; Links from internet ; Research paper or journal ; etc)
- Use advanced commands, design animation, background of Power point to make your PPT better.