



Sanjay Ghodawat University, Kolhapur

2018-19

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/01

Year and Program: 2018-19

School of Technology

Department of SY B.Tech

Course Code: AET210

Course Title: Avionic
Engineering

Semester – IV

Day and Date *Thursday*
30-05-2019

End Semester Examination
(ESE)

Time: Max Marks: 100

3 Hrs. 10:30 am to 1:30 pm

Instructions:

- 1) All questions are compulsory.
- 2) Assume suitable data wherever necessary.
- 3) Figures to the right indicate full marks.

Q.1	Attempt the following	Marks	Bloom's Level	CO
a)	Discuss about the CRT and AMLCD in detail.	07	L ₂	CO1
OR				
a)	Write about the regulatory and advisory agencies.	07	L ₂	CO1
b)	Explain what are HDD and HUD.	08	L ₂	CO2
OR				
b)	Explain the intelligent display management, data fusion and ISIS	08	L ₂	CO2
Q.2	Attempt the following			
a)	What is an Inertial reference system? Discuss about the attitude deviation.	07	L ₂	CO2
OR				
a)	Explain the Doppler Radar and RADALT in brief.	07	L ₂	CO4
b)	Briefly explain the Inertial Navigation system and GPS.	08	L ₂	CO4
OR				
b)	Explain the following	08	L ₃	CO4
	1. RNAV			
	2. FMS			
	3. GPWS			
	4. GNSS			

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Q.3	Solve any Two			
a)	What do you understand about the Displays and Man machine interaction and the importance of avionics?	08	L ₂	CO1
b)	Explain in brief about LASERS and Night vision goggles.	08	L ₃	CO4
c)	What are the applications of Doppler and weather radar?	08	L ₃	CO4
d)	Describe the Global positioning system and give its applications.	08	L ₂	CO4
Q.4	Solve any Two			
a)	Write about HF, VHF and UHF.	09	L ₂	CO4
b)	Explain about the Typical systems in Aircrafts and discuss the pros and cons of it.	09	L ₂	CO3
c)	Briefly explain telemetry and transponders.	09	L ₂	CO5
Q.5	Solve any Two			
a)	Write about ARINC 429 and MLT-STD-1553B.	09	L ₂	CO3
b)	Explain the IEEE 1394 firewire and Fibre channel options.	09	L ₃	CO5
c)	Briefly explain STAGNAG 3910 and JWIAG.	09	L ₂	CO5
Q.6	Solve any Three			
a)	What are the basic radar systems and its types?	06	L ₁	CO3
b)	Explain the HF and VHF and brief.	06	L ₂	CO3
c)	Write about the evolution of avionics architecture.	06	L ₂	CO1
d)	Explain PI and TM bus.	06	L ₂	CO5

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