INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad -500 043

Schedule of Instructions Week wise				
Academeic Year	**2017-2018**			
Subject Name	**PROBABILITY AND STATISTICS**			
Branch & Section	**COMPUTER SCIENCE AND ENGINEERING & IC**			
Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 1	01	Unit-I introduction	---	---
Week 1	02	Basic definitions	---	---
Week 1	03	Random variables, discrete and continuous random variables	---	---
Week 1	04	Probability distribution, probability mass function and probability density function	---	---
Week 1	05	Mathematical expectation	---	---

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Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 2	06	Problems on probability mass function and probability density functions-1	---	---
Week 2	07	Problems on probability mass function and probability density functions-2	---	---
Week 2	08	Binomial distribution-1	---	---
Week 2	09	Binomial distribution-2	---	---
Week 2	10	Poisson distribution-1	---	---

Schedule of Instructions Week wise				
Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 3	11	Poisson distribution-2	---	---
Week 3	12	Normal distribution-1	---	---
Week 3	13	Normal distribution-2	---	---
Week 3	14	Normal distribution-3	---	---
Week 3	15	Question bank discussion of unit-I	---	---

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Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 4	16	Unit-II joint probability distributions, joint probability mass, density function	---	---
Week 4	17	Marginal probability mass, density functions	---	---
Week 4	18	Coefficient of correlation-1	---	---
Week 4	19	Coefficient of correlation-2	---	---
Week 4	20	Rank correlation-1	---	---

Schedule of Instructions Week wise				
Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 5	21	Rank correlation-2	---	---
Week 5	22	Regression coefficient	---	---
Week 5	23	The lines of regression-1	---	---
Week 5	24	The lines of regression-2	---	---
Week 5	25	Multiple correlation and regression	---	---

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Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 6	26	Question bank discussion of unit-II	---	---
Week 6	27	Unit-III Definitions of population, sampling , statistic, parameter	---	---
Week 6	28	Types of sampling, expected values of sample mean and variance	---	---
Week 6	29	Sampling distribution, standard error	---	---
Week 6	30	Sampling distribution of means and sampling distribution of variance for with replacement	---	---

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Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 7	31	Sampling distribution of means and sampling distribution of variance for without replacement	---	---
Week 7	32	Sampling distribution of means and sampling distribution of variance for without replacement	---	---
Week 7	33	Revision	---	---
Week 7	34	Revision	---	---
Week 7	35	Revision	---	---

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Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 8	36	Estimation: point estimation, interval estimations	---	---
Week 8	37	Estimation: point estimation, interval estimations	---	---
Week 8	38	Problems on estimation-2	---	---
Week 8	39	Testing of hypothesis: null hypothesis, alternate hypothesis	---	---
Week 8	40	Type I and type II errors	---	---

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Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 9	41	Unit-IV introduction of large sample tests	---	---
Week 9	42	Test of hypothesis for single mean-1	---	---
Week 9	43	Test of hypothesis for single mean-2	---	---
Week 9	44	Test of hypothesis for difference of means-1	---	---
Week 9	45	Test of hypothesis for difference of means-2	---	---

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Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 10	46	Test of hypothesis for single proportion-1	---	---
Week 10	47	Test of hypothesis for single proportion-2	---	---
Week 10	48	Test of hypothesis for difference of proportions-1	---	---
Week 10	49	Test of hypothesis for difference of proportions-2	---	---
Week 10	50	Question bank discussion of Unit-IV	---	---

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Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 11	51	Unit-V introduction of small sample tests	---	---
Week 11	52	Student t-distribution, its properties-1	---	---
Week 11	53	Student t-distribution, its properties-2	---	---
Week 11	54	F-distribution, its properties-1	---	---
Week 11	55	F-distribution, its properties-2	---	---

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Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 12	56	Chi-square distribution and its properties-1	---	---
Week 12	57	Chi-square distribution and its properties-2	---	---
Week 12	58	Chi-square test of goodness of fit	---	---
Week 12	59	Analysis of variance: one way classification-1	---	---
Week 12	60	One way classification-2	---	---

Schedule of Instructions Week wise				
Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 13	61	Two way classification-1	---	---
Week 13	62	Two way classification-2	---	---
Week 13	63	Two way classification-3	---	---
Week 13	64	Two way classification-3	---	---
Week 13	65	Question bank discussion of Unit-V	---	---

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Weekno	**Lecture Number**	**Topic to be Covered**	**Handout**	**PPT**
Week 14	66	Question bank discussion of Unit-V	---	---
Week 14	67	Revision		---
Week 14	68	Revision	---	---
Week 14	69	Revision	---	---
Week 14	70	Revision	---	---