

ACHARYA NAGARJUNA UNIVERSITY

NAAC 'A' GRADE

REGISTRAR



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No.ANU/Acad./U.G/CBCS/III B.Sc/Statistics/SEM-VI/Syllabus/2017

Date: 30-10-2017

PROCEEDINGS OF THE VICE-CHANCELLOR

Sub:- ANU – Academic –UG courses –CBCS – III year B.Sc Statistics
VI semester Syllabus - Approval - Orders – Issued.

Ref:- 1. Minutes of the meeting of the Board of Studies (UG) in Statistics
held on 25-09-2017.

2. Vice-Chancellor's orders dated 29-10-2017.

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ORDER:-

The Vice-Chancellor, after having considered the minutes 1st cited, has approved the III year B.Sc Statistics VI semester syllabus for the academic year 2017-18 prepared by the Board of Studies (UG) in Statistics. The titles of the papers are mentioned below.

Semester-VI

Any one of the Elective Paper:

1. Paper VII (A) – Applied Statistics

OR

2. Paper VII (B)- Demography and Vital Statistics
Practical in Paper VII

Any of the Cluster Elective Paper:

3. Paper VIII A1: Optimization Techniques (Theory & Practical A-1)
4. Paper VIII A2: Operations Research (Theory & Practical A-2)
5. Paper VIII A3: Project Work

OR

6. Paper VIII B1: Advanced Experimental Design (Theory & Practical B-1)
7. Paper VIII B2: Actuarial Statistics (Theory & Practical B-2)
8. Paper VIII B3: Project Work

(BY ORDER)


JOINT REGISTRAR
Academic

To
The Chairman and all members, Board of Studies (UG) in Statistics, ANU.
All the Principals of the Affiliated Colleges under ANU area.
Copy to:
The Dean, Faculty of Physics Science, ANU.
The Dean, CDC, ANU.
The Coordinator, UG (Exams), ANU
The Addl. Controller of Examinations, ANU.
The P.A. to Vice-Chancellor/ Registrar/Rector, ANU.

Revised 24/10/17

A.P. STATE COUNCIL OF HIGHER EDUCATION
CBCS (B.A./B.Sc. STATISTICS COURSE STRUCTURE) w.e.f. 2015-16 ADMITTED BATCH

SEMESTER – VI

Year	Semester	Paper	Subject Titles	Marks		Credits	
				Internal	External		
III	VI	VII	VII (A): Applied Statistics (OR)	25	75	3	
			VII (B): Demography and Vital Statistics Practical in Paper VII	-	50	2	
		VIII	Cluster – A				
			A-1: Optimization Techniques	25	75	3	
			Practical A-1	-	50	2	
			A-2:				
			Operations Research	25	75	3	
			Practical A-2	-	50	2	
			A-3: Project Work	25	75	5	
			Cluster – B				
			B-1: Advanced Experimental Design	25	75	3	
			Practical B-1	-	50	2	
			B-2: Acturial Statistics	25	75	3	
Practical B-2	-	50	2				
B-3: Project Work	25	75	5				

BA/BSC III YEAR : STATISTICS SYLLABUS

(With Mathematics Combination)

Semester - VI CBCS.

Paper - VII Applied Statistics

Unit-I

Analysis of times series: Components of times series: meaning and examples, trend by least squares (straight line and parabola) methods and moving average methods. Seasonal indices by simple averages, ratio to moving average, ratio to trend and link relative methods.

Unit-II

Index numbers: Meaning, problems involved in the construction of index numbers, simple and weighted index numbers. Criteria of good index numbers. Fixed base and chain base index numbers. Cost of living index numbers, wholesale price index numbers, Base shifting, splicing and deflation of index numbers.

Unit-III

Official Statistics: Functions and organization of CSO and NSSO. Agricultural, area, yield of statistics, national income and its computation.

Unit-IV

Vital statistics: Meaning, Definition, uses, sources of vital statistics, various Death rates- CDR,ASDR,STDR and Birth rates -CBR,ASFR,TFR.

Unit-V

Reproduction Rates: Measurement of population growth, crude rate of natural increase, Pearle's vital index, Gross Reproduction Rate[GRR], Net Reproduction Rates[NRR], Life tables, construction uses of life tables and abridged life Tables.

Text Books:

1. Fundamentals of applied statistics : VK Kapoor and SC Gupta.
2. BA/BSc III year paper - III Statistics - applied statistics - Telugu academy by prof.K.Srinivasa Rao, Dr D.Giri. Dr A.Anand, Dr V.Papaiah Sastry.

Reference Books:

1. Indian Official statistics - MR Saluja.
2. Anuvarthita Sankyaka Sastram - Telugu Academy.

Practicals - Semester - VI

Conduct any 6 (Ms-exel is compulsory)

1. Measurement of Linear Trend
2. Measurement of Seasonal Indices-Link Relatives method
3. Reversal tests.
4. Cost of living Index Numbers.
5. Mortality, Fertility & Re-production rates.
6. Life tables.
7. MS-Excel Practical.