

KUNTHAVAI NAACCHIYAAR GOVT.ARTS COLLEGE (W) AUTONOMOUS,
THANJAVUR-7

DEPARTMENT OF STATISTICS

MINUTES FOR UG AND PG INTERNAL BOARD OF STUDIES 2025-2026

Date: 15-07.2025

The UG Internal Board of studies meeting was conducted on 15.07.2025 at 10.00 am. The CBCS syllabi for B.Sc., Major Statistics, and Allied Statistics for Mathematics, Geography and BBA were discussed with the board members to finalize the NM Syllabus for the students admitted from 2023-24 and 2024-25 onwards respectively. The following corrections were carried out.

In the academic year 2025-26, V semester, NM course Career Skill Enhancement and Employability Readiness (23K5NM) was introduced newly and which is also optional paper for the students and who doesn't write the NM course with the new course code (23K5NMOS)- Statistical Survey Analysis. Then 1 hour taken from Major practical paper –VI and 1 hour taken from project, also credits 2 was given as per the instruction given by TANSCHÉ.

In III semester, NM course Foundation of digital Marketing (23K3NM) was introduced newly. For this course, instead of SBE V Database Management System (23K3SBEC5) which is also an optional paper for the students who doesn't write the NM course with the new course code course Database Management System (23K3NMOS). Then 2 hours and credits 2 was given as per the instruction given by TANSCHÉ.

The PG Syllabus 2023-2024 onwards has no changes.

The rest of the courses were unanimously approved as such by the Board of Studies.

Members of UG and PG Board of studies held on 15.07.2025

1. Dr.M.Anusuya., M.Sc., M.Phil., Ph.D.,

Assistant Professor of Mathematics,
K.N.Govt.Arts College for Women,
Thanjavur

L. Anusuya
15/7/25

2. Dr.P.Vanitha .,M.Sc., M.Phil., Ph.D.,

Guest Lecturer in Statistics
K.N.G.A.C(W),
Thanjavur.

P. Vanitha
15/7/25

3. Dr. J.Kamala., M.Sc., M.Phil., Ph.D.,

Guest Lecturer in Statistics

K.N.G.A.C(W),

Thanjavur

4. Dr.S.Kanchana., M.Sc., M.Phil.,Ph.D.,

Guest Lecturer in Statistics

K.N.G.A.C(W),

Thanjavur.

S.Kanchana
15/7/25

5. Dr.S.Abirami., M.Stat., M.Phil., Ph.D.,

Guest Lecturer in Statistics

K.N.G.A.C(W),

Thanjavur

S.A.
15/7/25

6. Dr .S.Stellamani., M.Sc., M.Phil., Ph.D.,

Guest Lecturer in Statistics

K.N.G.A.C(W),

Thanjavur.

S.S.
15/7/25

7. Dr .D.Shanthi, M.Stat., M.Phil.,

Guest Lecturer in Statistics

K.N.G.A.C(W),

Thanjavur.

D.S.
15/7/25

8. Dr.R.Vetriselvi ., M.Sc., M.Phil.,Ph.D.,

Guest Lecturer in Statistics

K.N.G.A.C(W),

Thanjavur.

R.Vetriselvi
15/7/25

9. Dr. R.,Saranraj., M.Sc., M.Phil.,Ph.D.,

Guest Lecturer in Statistics

K.N.G.A.C(W),

Thanjavur.

R. Saranraj
15/07/2025

H. 2000
HOD 15/7/25

Principal
15/07/2025



KUNTHAVAI NAACCHIYAAR GOVT. ARTS COLLEGE FOR WOMEN
(AUTONOMOUS) THANJAVUR – 7
POST GRADUATE DEPARTMENT OF STATISTICS
I - B.Sc., Statistics., Course Structure under CBCS
(For the candidates admitted from the academic year 2023-2024 onwards)

Semester	Part	Code	Subject Code	Title of the Paper	Hrs	Credit	Exam Hrs	Marks		Total
								IA	EA	
I	I	LC I	23K1T1	1.1 Tamil	6	3	3	25	75	100
	II	ELC I	23K1E1	1.2 English	6	3	3	25	75	100
	III	CC I	23K1S01	1.3 Probability Theory	5	5	3	25	75	100
		CC II	23K1S02	1.4 Descriptive Statistics	3	3	3	25	75	100
		EC I	23K1SECS1: 1	1.5 Mathematics for Statistics	4	4	3	25	75	100
			23K1SECS1: 2	1.5 Statistics and Mathematics –I						
		ECII		1.6 Practical – I (Calculator Based– Descriptive Statistics and Distribution Theory)	2	-	-	-	-	-
	IV	SEC I	23K1SSEC1	1.7 Basic of Statistics – I	2	2	3	25	75	100
		FC	23K1SFC	1.8 Bridge - Elementary Statistics	2	2	3	25	75	100
				TOTAL	30	22				700
II	I	LC II	23K2T2	2.1 Tamil	6	3	3	25	75	100
	II	ELC II	23K2E2	2.2 English	6	3	3	25	75	100
	III	CC III	23K2S03	2.3 Matrix and Linear Algebra	5	5	3	25	75	100
		CC IV	23K2S04	2.4 Distribution Theory	3	3	3	25	75	100
		ECII	23K2SECS2 P	2.5. Practical –I (Calculator Based– Descriptive Statistics and Distribution Theory)	2	2	3	25	75	100
		EC III	23K2SECS3: 1	2.6 Real Analysis	4	3	3	25	75	100
			23K2SECS3: 2	2.6 Fuzzy Set theory						
		SEC II	23K2SSEC2 P	2.7 Practical – II (Data Analysis Using MS - Excel)	2	2	3	25	75	100
	IV	SEC	23K2SSEC3	2.8 Basic of Statistics -II	2	2	3	25	75	100

		III								
				TOTAL	30	23				800
III	I	LC III	23K3T3	3.1 Tamil	6	3	3	25	75	100
	II	ELC III	23K3E3	3.2 English	6	3	3	25	75	100
	III	CC V	23K3S05	3.3 Estimation Theory	3	3	3	25	75	100
		CC VI	23K3S06	3.4 Sampling Techniques	5	5	3	25	75	100
		EC IV	23K3SECS4:1	3.5 Numerical Methods	4	4	3	25	75	100
			23K3SECS4:2	3.5 Financial Statistics						
		EC V		3.6 Practical – III (Calculator Based– Statistical Inference)	2	-	-	-	-	-
		SEC IV	23K3SSEC4P	3.8 Practical – IV (Calculator Based - Sampling Techniques)	2	2	3	25	75	100
	IV	SEC V	23K3SSEC5	3.7 Database Management System	1	1	3	25	75	100
		EVS		3.9 Environmental Studies	1	-	-	-	-	-
		ECC1	23K3SECC1:1	Competitive Exam Skill (Contents In Tamil)	-	3*	-	-	100	100
			23K3SECC1:2	MOOC (Value Added Course)						
		ECC2	23K3SECC2	COMPUTATIONAL STATISTICS(Add on Course)	-	4*	-	-	-	-
				TOTAL	30	21				700
IV	I	LC IV	23K4T4	4.1 Tamil	6	3	3	25	75	100
	II	ELC IV	23K4E4	4.2 English	6	3	3	25	75	100
	III	CC VII	23K4S07	4.3 Testing of Statistical Hypothesis	3	3	3	25	75	100
		CC VIII	23K4S08	4.4 Actuarial Statistics	4	4	3	25	75	100

		EC V	23K4SECS5P	4.5 Practical – III (Calculator Based– Statistical Inference)	2	2	3	25	75	100
		EC VI	23K4SECS6: 1	4.6 Economic and official Statistics	4	3	3	25	75	100
			23K4SECS6: 2	4.6 Econometrics / Population Studies						
	SEC VI	23K4SSEC6 P	4.7 Practical– V (Statistical Software Using R)	2	2	3	25	75	100	
	IV	SEC VII	23K4SSEC7	4.8 Survey Sampling and Indian official Statistics	2	2	3	25	75	100
		EVS	23K4SEVS	4.9 Environmental Studies	1	2	3	25	75	100
		ECC3	23K4SECC3: 1	Quantitative Aptitude	-	3*	3	-	-	100
			23K4SECC3: 2	MOOC (Value Added Course)						
				TOTAL	30	24				900
	V	III	CC IX	23K5S09	5.1 Stochastic Process	6	5	3	25	75
CC X			23K5S10	5.2 Regression Analysis	6	5	3	25	75	100
CC XI (P)			23K5S11P	5.3 Practical-VI (Core IX & X)	6	5	3	25	75	100
CC XII			23K5S12PW	5.4 Project	6	4	-	-	100	100
EC VII			23K5SECS7: 1	5.5 Statistical Quality Control	4	3	3	25	75	100
			23K5SECS7: 2	5.5 Simulation and Inventory Control						
IV			VE	23K5VE	5.6 Value Education	2	2	3	25	75
			23K5I	5.7 Summer Internship – Industrial Visit/ Field Visit	-	2	-	-	-	-
				TOTAL	30	26				600

VI	III	CC XIII	23K6S13	6.1 Design of Experiment	7	6	3	25	75	100
		CC XIV	23K6S14	6.2 Demography	7	6	3	25	75	100
		CC XV(P)	23K6S15P	6.3 Practical – VII (SPSS Core XIII & XIV)	7	6	3	25	75	100
		EC VIII	23K6SECS8: 1	6.4 Operations Research	6	3	3	25	75	100
			23K6SECS8: 2	6.4 Bayesian Inference						
	IV	SEC VIII	23K6SSEC8	6.5 Introduction to R Language/Python	2	2	3	25	75	100
			23K6GS	6.6 Gender Studies	1	1	3	25	75	100
			23k6EA	6.7 Extension Activity	-	1				
				TOTAL	30	25				600
				GRAND TOTAL	180	141				4300

Dr. Dele
18/7/20
 HOD of Statistics



**KUNTHAVAI NAACCHIYAAR GOVT. ARTS COLLEGE FOR
WOMEN(AUTONOMOUS) THANJAVUR – 7**

POST GRADUATE DEPARTMENT OF STATISTICS

II- B.Sc., Statistics., Course Structure under CBCS

**(For the candidates admitted from the academic year 2023-2024
onwards)**

Semester	Part	Code	Subject Code	Title of the Paper	Hrs	Credit	Exam Hrs	Marks		Total
								IA	EA	
I	I	LC I	23K1T1	1.1 Tamil	6	3	3	25	75	100
	II	ELC I	23K1E1	1.2 English	6	3	3	25	75	100
	III	CC I	23K1S01	1.3 Probability Theory	5	5	3	25	75	100
		CC II	23K1S02	1.4 Descriptive Statistics	3	3	3	25	75	100
		EC I	23K1SECS1:1	1.5 Mathematics for Statistics	4	4	3	25	75	100
			23K1SECS1:2	1.5 Statistics and Mathematics -I						
		ECII		1.6 Practical – I (Calculator Based– Descriptive Statistics and Distribution Theory)	2	-	-	-	-	-
	IV	SEC I	23K1SSEC1	1.7 Basic of Statistics – I	2	2	3	25	75	100
		FC	23K1SFC	1.8 Bridge - Elementary Statistics	2	2	3	25	75	100
				TOTAL	30	22				700
II	I	LC II	23K2T2	2.1 Tamil	6	3	3	25	75	100
	II	ELC II	23K2E2	2.2 English	4	3	3	25	75	100
	III	CC III	23K2S03	2.3 Matrix and Linear Algebra	5	5	3	25	75	100
		CC IV	23K2S04	2.4 Distribution Theory	3	3	3	25	75	100
		ECII	23K2SECS2P	2.5. Practical –I (Calculator Based– Descriptive Statistics and Distribution Theory)	2	2	3	25	75	100
		EC III	23K2SECS3:1	2.6 Real Analysis	4	3	3	25	75	100
			23K2SECS3:2	2.6 Fuzzy Set theory						
		SEC II	23K2SSEC2P	2.7 Practical – II (Data Analysis Using MS - Excel)	2	2	3	25	75	100
	IV	SEC	23K2SSEC3	2.8 Basic of Statistics –II	2	2	3	25	75	100

		III								
		NM	23K2NM	Overview of English Language Communication	2	2	3	25	75	100
			23K2NMOS	Population studies						
				TOTAL	30	25				900
III	I	LC III	23K3T3	3.1 Tamil	6	3	3	25	75	100
	II	ELC III	23K3E3	3.2 English	6	3	3	25	75	100
	III	CC V	23K3S05	3.3 Estimation Theory	3	3	3	25	75	100
		CC VI	23K3S06	3.4 Sampling Techniques	5	5	3	25	75	100
		EC IV	23K3SECS4:1	3.5 Numerical Methods	4	4	3	25	75	100
			23K3SECS4:2	3.5 Financial Statistics						
		EC V		3.6 Practical – III (CalculatorBased–Statistical Inference)	2	-	-	-	-	-
		SEC IV	23K3SSEC4P	3.8 Practical – IV (Calculator Based - Sampling Techniques)	2	2	3	25	75	100
		NM	23K3NM	Foundation of digital Marketing	2	2	3	25	75	100
			23K3NMOS	Database Management System						
		EVS		3.9 Environmental Studies	1	-	-	-	-	-
		ECC1	23K3SECC1:1	Competitive Exam Skill (Contents In Tamil)	-	3*	-	-	100	100
			23K3SECC1:2	MOOC (Value Added Course)						
		ECC2	23K3SECC2	Statistical analysis using Excel data Sheet(Add on Course)	-	4*	-	-	-	-
				TOTAL	30	21				700
IV	I	LC IV	23K4T4	4.1 Tamil	6	3	3	25	75	100
	II	ELC IV	23K4E4	4.2 English	6	3	3	25	75	100
		CC VII	23K4S07	4.3 Testing of StatisticalHypothesis	3	3	3	25	75	100

V	III	CC VIII	23K4S08	4.4 Actuarial Statistics	4	4	3	25	75	100
		EC V	23K4SECS5P	4.5 Practical – III (CalculatorBased– Statistical Inference)	2	2	3	25	75	100
		EC VI	23K4SECS6:1	4.6 Economic and official Statistics	4	3	3	25	75	100
			23K4SECS6:2	4.6 Econometrics / Population Studies						
		SEC V	23K4SSEC5P	4.7 Practical– V (StatisticalSoftware Using R)	2	2	3	25	75	100
	IV	SEC VI	23K4SSEC6	4.8 Survey Sampling andIndian official Statistics	2	2	3	25	75	100
		EVS	23K4SEVS	4.9 Environmental Studies	1	2	3	25	75	100
		ECC3	23K4SECC3:1	Quantitative Aptitude	-	3*	3	-	-	100
			23K4SECC3:2	MOOC (Value AddedCourse)						
				TOTAL	30	24				900
	III	CC IX	23K5S09	5.1 Stochastic Process	6	5	3	25	75	100
		CC X	23K5S10	5.2 Regression Analysis	6	5	3	25	75	100
		CC XI (P)	23K5S11P	5.3 Practical-VI (Core IX &X)	6	5	3	25	75	100
		CC XII	23K5S12PW	5.4 Project	6	4	-	-	100	100
		EC VII	23K5SECS7:1	5.5 Statistical QualityControl	4	3	3	25	75	100
			23K5SECS7:2	5.5 Simulation and InventoryControl						
	IV	VE	23K5VE	5.6 Value Education	2	2	3	25	75	100
			23K5I	5.7 Summer Internship – Industrial Visit/ Field Visit	-	2	-	-	-	-
				TOTAL	30	26				600

VI	III	CC XIII	23K6S13	6.1 Design of Experiment	7	6	3	25	75	100
		CC XIV	23K6S14	6.2 Demography	7	6	3	25	75	100
		CC XV(P)	23K6S15P	6.3 Practical – VII (SPSS Core XIII & XIV)	7	6	3	25	75	100
		EC VIII	23K6SECS8:1	6.4 Operations Research	6	3	3	25	75	100
			23K6SECS8:2	6.4 Bayesian Inference						
	IV	SEC VII	23K6SSEC7	6.5 Introduction to R Language/Python	2	2	3	25	75	100
			23K6GS	6.6 Gender Studies	1	1	3	25	75	100
			23K6EA	6.7 Extension Activity	-	1				
				TOTAL	30	25				600
				GRAND TOTAL	180	143				4400

15/7/25

HOD of Statistics



**KUNTHAVAI NAACCHIYAAR GOVT. ARTS COLLEGE FOR
WOMEN(AUTONOMOUS) THANJAVUR – 7**

POST GRADUATE DEPARTMENT OF STATISTICS

III- B.Sc., Statistics., Course Structure under CBCS

**(For the candidates admitted from the academic year 2023-2024
onwards)**

Semester	Part	Code	Subject Code	Title of the Paper	Hrs	Credit	Exam Hrs	Marks		Total
								IA	EA	
I	I	LC I	23K1T1	1.1 Tamil	6	3	3	25	75	100
	II	ELC I	23K1E1	1.2 English	6	3	3	25	75	100
	III	CC I	23K1S01	1.3 Probability Theory	5	5	3	25	75	100
		CC II	23K1S02	1.4 Descriptive Statistics	3	3	3	25	75	100
		EC I	23K1SECS1:1	1.5 Mathematics for Statistics	4	4	3	25	75	100
			23K1SECS1:2	1.5 Statistics and Mathematics -I						
		ECII		1.6 Practical – I (Calculator Based– Descriptive Statistics and Distribution Theory)	2	-	-	-	-	-
	IV	SEC I	23K1SSEC1	1.7 Basic of Statistics – I	2	2	3	25	75	100
		FC	23K1SFC	1.8 Bridge - Elementary Statistics	2	2	3	25	75	100
				TOTAL	30	22				700
II	I	LC II	23K2T2	2.1 Tamil	6	3	3	25	75	100
	II	ELC II	23K2E2	2.2 English	4	3	3	25	75	100
	III	CC III	23K2S03	2.3 Matrix and Linear Algebra	5	5	3	25	75	100
		CC IV	23K2S04	2.4 Distribution Theory	3	3	3	25	75	100
		ECII	23K2SECS2P	2.5. Practical –I (Calculator Based– Descriptive Statistics and Distribution Theory)	2	2	3	25	75	100
		EC III	23K2SECS3:1	2.6 Real Analysis	4	3	3	25	75	100
			23K2SECS3:2	2.6 Fuzzy Set theory						
		SEC II	23K2SSEC2P	2.7 Practical – II (Data Analysis Using MS - Excel)	2	2	3	25	75	100
	IV	SEC	23K2SSEC3	2.8 Basic of Statistics –II	2	2	3	25	75	100

		III								
		NM	23K2NM	Overview of English Language Communication	2	2	3	25	75	100
			23K2NMOS	Population studies						
				TOTAL	30	25				900
III	I	LC III	23K3T3	3.1 Tamil	6	3	3	25	75	100
	II	ELC III	23K3E3	3.2 English	6	3	3	25	75	100
	III	CC V	23K3S05	3.3 Estimation Theory	3	3	3	25	75	100
		CC VI	23K3S06	3.4 Sampling Techniques	5	5	3	25	75	100
		EC IV	23K3SECS4:1	3.5 Numerical Methods	4	4	3	25	75	100
			23K3SECS4:2	3.5 Financial Statistics						
		EC V		3.6 Practical – III (Calculator Based – Statistical Inference)	1	-	-	-	-	-
		SEC IV	23K3SSEC4P	3.8 Practical – IV (Calculator Based - Sampling Techniques)	2	1	3	25	75	100
	IV	NM	23K3NM	Digital Skills for Employability	2	2	3	25	75	100
			23K3NMOS	Database Management System						
		EVS		3.9 Environmental Studies	1	-	-	-	-	-
		ECC1	23K3SECC1:1	Competitive Exam Skill (Contents In Tamil)	-	3*	-	-	100	100
			23K3SECC1:2	MOOC (Value Added Course)						
		ECC2	23K3SECC2	Statistical analysis using Excel data Sheet(Add on Course)	-	4*	-	-	-	-
				TOTAL	30	21				700
IV	I	LC IV	23K4T4	4.1 Tamil	6	3	3	25	75	100
	II	ELC IV	23K4E4	4.2 English	6	3	3	25	75	100
	III	CC VII	23K4S07	4.3 Testing of Statistical Hypothesis	3	3	3	25	75	100
		CC VIII	23K4S08	4.4 Actuarial Statistics	4	4	3	25	75	100

V		EC V	23K4SECS5P	4.5 Practical – III (CalculatorBased– Statistical Inference)	2	2	3	25	75	100
		EC VI	23K4SECS6:1	4.6 Economic and official Statistics	4	3	3	25	75	100
			23K4SECS6:2	4.6 Econometrics / Population Studies						
		SEC V	23K4SSEC5P	4.7 Practical– V (StatisticalSoftware Using R)	2	2	3	25	75	100
	IV	NM	23K4NM/M/P/S	Power BI	2	2	3	25	75	100
			23K4NMOS	4.8 Survey Sampling andIndian official Statistics						
		EVS	23K4SEVS	4.9 Environmental Studies	1	2	3	25	75	100
		ECC3	23K4SECC3:1	Quantitative Aptitude	-	3*	3	-	-	100
			23K4SECC3:2	MOOC (Value AddedCourse)						
				TOTAL	30	24				900
	III	CC IX	23K5S09	5.1 Stochastic Process	6	5	3	25	75	100
		CC X	23K5S10	5.2 Regression Analysis	6	5	3	25	75	100
		CC XI(P)	23K5S11P	5.3 Practical-VI (Core IX &X)	5	5	3	25	75	100
		CC XII	23K5S12PW	5.4 Project	5	4	-	-	100	100
		EC VII	23K5SECS7:1	5.5 Statistical QualityControl	4	3	3	25	75	100
			23K5SECS7:2	5.5 Simulation and InventoryControl						
		NM	23K5NM	Career Skill Enhancement and Employability	2	2	3	25	75	100

			Readiness Part-1							
		23K5NMOS	Statistical Survey Analysis							
	IV	VE	23K5VE	5.6 Value Education	2	2	3	25	75	100
			23K5I	5.7 Summer Internship – Industrial Visit/ Field Visit	-	2	-	-	-	-
				TOTAL	30	28				700
VI	III	CC XIII	23K6S13	6.1 Design of Experiment	7	6	3	25	75	100
		CC XIV	23K6S14	6.2 Demography	7	6	3	25	75	100
		CC XV(P)	23K6S15P	6.3 Practical – VII (SPSS Core XIII & XIV)	7	6	3	25	75	100
		EC VIII	23K6SECS8:1	6.4 Operations Research	6	3	3	25	75	100
			23K6SECS8:2	6.4 Bayesian Inference						
	IV	SEC VIII	23K6SSEC8	6.5 Introduction to R Language/Python	2	2	3	25	75	100
			23K6GS	6.6 Gender Studies	1	1	3	25	75	100
			23k6EA	6.7 Extension Activity	-	1				
				TOTAL	30	25				600
				GRAND TOTAL	180	145				4500

L. D. Desai
 15/7/25
 HOD of Statistics

**KUNTHAVAI NAACHIYAAR GOVT. ARTS COLLEGE FOR WOMEN
(AUTONOMOUS) THANJAVUR**

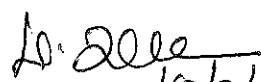
PG Programmes - Course Structure under CBCS

M. Sc., STATISTICS

(applicable to the candidates admitted from the academic year 2023-2024 onwards)

Semester	Part	Course	Sub. Code	Title of the Course	Inst.Hrs	Credits	Exam Hrs	IA	EE	Total
I	A	CC1	23KP1S01	1.1 Real Analysis & Linear Algebra	7	5	3	25	75	100
		CC2	23KP1S02	1.2 Sampling Methods	7	5	3	25	75	100
		CC 3	23KP1S03	1.3 Distribution Theory	6	4	3	25	75	100
		EC1	23KP1SECS1:1	1.4 Categorical Data Analysis	5	3	3	25	75	100
			23KP1SECS1:2	Population Studies						
		EC2	23KP1SECS2:1	1.5 Bayesian Inference	5	3	3	25	75	100
			23KP1SECS2:2	Clinical Trials						
				Total	30	20				500
II	A	CC4	23KP2S04	2.1 Estimation Theory	6	5	3	25	75	100
		CC5	23KP2S05	2.2 Measure and Probability Theory	6	5	3	25	75	100
		CC6	23KP2S06	2.3 Time Series Analysis	6	4	3	25	75	100
		EC3	23KP2SECS3:1	2.4 Actuarial Statistics	4	3	3	25	75	100
			23KP2SECS3:2	Simulation Analysis						
		EC4	23KP2SECS4:1	2.5 Survival Analysis	4	3	3	25	75	100
			23KP2SECS4:2	Econometrics						
	B	SEC1	23KP2SSEC1	2.6 Practical-I (CC IV&VI Based on R Programming)	4	2	3	40	60	100
	C	EC1	23KP2SECC1:1	2.7 Statistics For Life Sciences		3*	3	-	100	100
			23KP2SECC1:2	MOOC (Value Added)						
		EC2	23KP2SECC2	Introduction to Python (Add on Course)	-	4*	-	-	-	-
				Total	30	22				600

III	A	CC7	23KP3S07	3.1 Testing of Statistical Hypothesis		6	5	3	25	75	100
		CC8	23KP3S08	3.2 Linear Model		6	5	3	25	75	100
		CC9	23KP3S09	3.3 Multivariate Analysis		6	5	3	25	75	100
		CC10	23KP3S10	3.4 Design of Experiments		6	4	3	25	75	100
		EC5	23KP3SECS5:1	3.5	Operation Research	3	3	3	25	75	100
	23KP3SECS5:2		Database Management System								
		SEC2	23KP3SSEC2	3.6 Practical – II (Core Course VII,VIII &IX)		3	2	3	40	60	100
	ECC1	23KP3I	3.7 Internship / Industrial Activity			2					
	C	EC3	23KP3SECC3:1	3.8	Optimization Techniques		3*	3	-	100	100
			23KP3SECC3:2		MOOC (Value Added)						
				Total		30	26				600
IV	A	CC11	23KP4S11	4.1 Stochastic Process		6	5	3	25	75	100
		CC12	23KP4S12	4.2 Machine Learning Techniques		6	5	3	25	75	100
		CC13	23KP4SPW	4.3 Project with viva voce		10	7			100	100
		EC6	23KP4SECS6:1	4.4	Non-Parametric Inference	4	3	3	25	75	100
			23KP4SECS6:2		Reliability Theory						
	B	SEC3	23KP4SSEC3	4.5 Professional Competency Skill Enhancement Course Training for Competitive Examinations • Mathematics for NET / UGC - CSIR/ SET / TRB Competitive Examinations (2 hours) • General Studies for UPSC / TNPSC / Other Competitive Examinations (2 hours) OR Statistics for Advanced Research Studies (4 hours)		4	2	3	25	75	100
	C		23KP4EA	4.6 Extension Activity			1				
					Total		30	23			
				GRAND TOTAL		120	91				2200


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SEM-V	NM	Database Management System	23K3NMOS	Hrs:2	Credit:2
Objectives of the Course		1. Understand the basic concepts and applications of database systems. 2. Master the basics of SQL and construct queries using SQL. 3. Understand the relational database design principle.			
Course Outline		Unit I Introduction – Database System Application – Purpose of Database Systems – View of Data – Database Languages – Transaction Management – Database Architecture – Database users and Administrators. UNIT II Relational Model : Structure of Relational Database – Database Design – ER Model – SQL : Background – Data definition – Basic Structure of SQL – Queries – Set Operations – Aggregate Functions – Null Values – Nested Sub Queries. Unit III Intermediate SQL : Join Expressions – View – Transactions – Authorization – Advance SQL : Functions and Procedures – Triggers Unit IV PL/SQL : Programming Language: Fundamentals – Block Structure – Comments – Data Types – Declaration – Assignment operation – Bind Variables – Substitution Variables – Printing Operators. Unit V PL/SQL Composite Data types: Records – Tables – V Arrays. Named Blocks : Procedures – Functions – Packages – Triggers – Data Dictionary Views.			
Reference Books		1. –Database System Concepts, Abraham Silberschatz, Henry F. Korth, S.Sudharshan, TMH – 5 th Edition 2. – Fundamentals of Database Management Systes, Alexis Leon, Mathews Leon, Vijay Nicole Imprints Private Limited. 3. –Database Systems Using Oracle, Nilesh Shah, 2 nd Edition, PHI .			
Website and e-Learning Source		1. https://www.w3schools.com/sql 2. https://www.tutorialspoint.com/sql 3. https://livesql.orcale.com			

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HOD of Statistics

Kunthavai Naacchiyaar Govt. Arts College (W) Autonomous, Thanjavur

SEM-V	NM	STATISTICAL SURVEY ANALYSIS	23K5NMOS	Hrs:2	Credit:2
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Course Objectives:

1. Students should know the steps involved in qualitative data collection.
2. Students should know the types of qualitative data typically collected in a qualitative study.
3. Identify and discuss the role and importance of research in the social sciences.
4. This course describes the various methods used for modeling and evaluating survival data.

Course Outcomes:

Cos	Statements
CO1	After completing this course we will be able to describe survival data format it appropriately for analysis and understanding.
CO2	Apply the knowledge for Survival analysis including survival time and event censoring and survival function and hazard functions.
CO3	Learn how to select and apply appropriate scaling and scoring metrics, how to create an analysis plan and how to present survey findings in useful tables and charts.
CO4	To design a good qualitative purpose statement and a good central question in qualitative research
CO5	To create scientific knowledge, to integrate ideas into a solution, to propose an action plan, to formulate a new classification scheme

Unit – I : STATISTICAL SURVEY

Organizing a statistical survey- Planning the survey, Executing the survey - Drafting an effective questionnaire, difference between questionnaire and schedule.

Unit – II: CENSUS AND SAMPLE METHOD

Sampling - Census and Sample method. Sampling and Non-sampling errors.

Unit – III:. COLLECTION OF DATA

Collection of data - Primary data - methods of collecting primary data. Internet Survey and Telephone Survey. Secondary data - methods of collecting secondary data and precautions while using secondary data.

Unit – IV: CLASSIFICATION OF DATA

Classification of data – Types of Classification - Chronological classification, Geographical classification, Quantitative classification and Qualitative classification. Formation of discrete frequency distribution and Formation of continuous frequency distribution.

Unit – V: TABULATION OF DATA

Tabulation of data - Parts of a table and general rules of tabulation. Types of tables - simple and complex table, Machine tabulation and Cross tabulation – Practical Survey and Report Writing.

Unit – VI: APPLICATIONS

Planning the survey based on the data. Collection of data of the data.

Text Book

Gupta. S.P, Statistical Methods , Sultan Chand & Sons, New Delhi.

CO-PO Mapping for Statistical Survey Analysis

Cos	Pos					
	PO1	PO2	PO3	PO4	PO5	PO6
CO1	1	-		2	-	-
CO2	-	-	2	-	1	1
CO3	-	-	1	-	-	-
CO4	1	-	-	2	1	-
CO5	1	-2	-	-	1	1

High correlation - (3), Moderate correlation- (2), No correlation-(-)

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