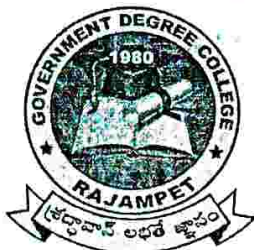




COMMISSONERATE OF COLLEGIATE EDUCATION,



GOVT. DEGREE COLLEGE

RAJAMPET, KADAPA. Dt.

(Affiliated to Yogi Vemana University, Kadapa.)

TEACHING PLAN

ACADEMIC YEAR 2023-2024

Name of the Department : MATHEMATICS

NAME OF THE LECTURER : K. SEKHAR BABU
M.Sc; M.Phil;

Course / Group : B.Sc (MPCs, MSCs, EM) B.Sc Major

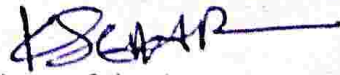
Subject / Page :

Sl.No.	Subject	Paper	Page No.
1	Integral Transforms with Applications	7B	1-11
2	Analytical Skills (Life Skill Course)	LSC-I	12-21
3	Advances in Mathematical Sciences	P-II	22-23
4			

Name of the Topic	Integral Transforms with Applications
Hours required	UNIT - I Laplace Transforms - I (12 Hours)
Learning Objectives	Definition of Laplace Transform Linear Property - Piece-wise Continuous Functions Existence th. - class A function, Exponential order function
Previous knowledge to be reminded	Limits, Integration methods
Examples / Illustrations	Examples & Solved Problems
Additional inputs	Objective Questions
Teaching Aids used	Black Board, Text book
References cited	S. Chand & Co Text book.
Student Activity Planned after the teaching	Learning the objectives. get together
Activity planned outside the class room, if any	Study hours for slow learners
Any other activity	Test.
Topic Synopsis	(Continue on the reverse side if needed) Definition $\int_0^{\infty} e^{-st} f(t) dt = f(s)$ Linear Property Piece-wise Continuous Function Existence of Laplace Transform Exponential order and class A

August 28 Teaching Plan / Lesson No.

Name of the Topic	Laplace Transform UNIT - II
Hours required	12
Learning Objectives	Laplace Transform - II
Previous knowledge to be reminded	Integration methods
Examples / Illustrations	Solved Problems
Additional inputs	Objective Questions
Teaching Aids used	Board & Text Book
References cited	A Text book Laplace Transform by S. S. Chaud & Co
Student Activity Planned after the teaching	Home work
Activity planned outside the class room, if any	Learning
Any other activity	Test, Study hours for slow learners
Topic Synopsis	(Continue on the reverse side if needed) First Shifting theorem Second Shifting theorem Change of scale property Laplace Transform of derivative Initial value theorem Final value theorem.


 Signature of the Lecturer

August 23 Teaching Plan / Lesson No.

Name of the Topic	UNIT-III Inverse Laplace Transform
Hours required	
Learning Objectives	Inverse Laplace Transforms
Previous knowledge to be reminded	Integration methods Laplace Transforms
Examples / Illustrations	Solved Problem & proof of thm.
Additional inputs	Objective Questions
Teaching Aids used	Text Books, Board
References cited	A Text book of Integral Transform by S. Choud
Student Activity Planned after the teaching	Learning Class Review
Activity planned outside the class room, if any	Home work
Any other activity	Study hour
Topic Synopsis	(Continue on the reverse side if needed) Lt of Integrals - multiplication by t Division by t Bessel function Definition of Inverse Laplace Solving Inverse Laplace by using partial fractions


Signature of the Lecturer

Sept - 23

Teaching Plan / Lesson No.

Name of the Topic	Inverse Laplace Transforms
Hours required	12
Learning Objectives	Inverse Laplace Transforms
Previous knowledge to be reminded	Partial Fractions, Integration methods
Examples / Illustrations	Solved Problems
Additional inputs	Objective Questions
Teaching Aids used	Board and Text Books
References cited	Text Book by S. Chand
Student Activity Planned after the teaching	Home work
Activity planned outside the class room, if any	Study Hour
Any other activity	Learning
Topic Synopsis	(Continue on the reverse side if needed) Convolution theorem part and its Applications Methods of finding Inverse Laplace Transforms

Reshan

Oct - 23

Teaching Plan / Lesson No.

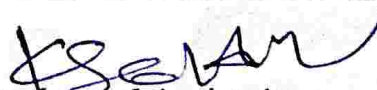
Name of the Topic	Applications of Laplace Transform
Hours required	12
Learning Objectives	DEs Solution by using Laplace
Previous knowledge to be reminded	Laplace and Inverse
Examples / Illustrations	Solved problems
Additional inputs	Objective Questions
Teaching Aids used	Board and Text Book
References cited	S. Chand Text Book
Student Activity Planned after the teaching	Test
Activity planned outside the class room, if any	Learning
Any other activity	Study Hour
Topic Synopsis	(Continue on the reverse side if needed) • Solution of DEs by using Laplace Transform Constant coeff, variable coeff - periodic D.E. -


 Signature of the Lecturer

Nov 28

Teaching Plan / Lesson No.

Name of the Topic	Revision
Hours required	
Learning Objectives	Revision
Previous knowledge to be reminded	
Examples / Illustrations	Revision
Additional inputs	
Teaching Aids used	
References cited	
Student Activity Planned after the teaching	
Activity planned outside the class room, if any	
Any other activity	Revision
Topic Synopsis	(Continue on the reverse side if needed) Refer Q-1s


Signature of the Lecturer

I B.Sc 4

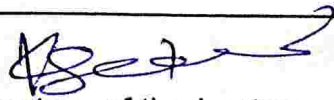
I BA - Sem-I

Life Skill Course

13

Teaching Plan / Lesson No.

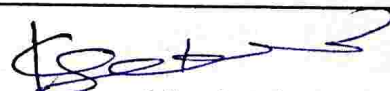
Name of the Topic	Analytical Skills
Hours required	10
Learning Objectives	Arithmetic Ability 4
Previous knowledge to be reminded	Yes basic Mathematical Abilities
Examples / Illustrations	Solved Problems
Additional inputs	Objective Questions
Teaching Aids used	Board & Text book
References cited	CCF, JKC T.B
Student Activity Planned after the teaching	Practices
Activity planned outside the class room, if any	Learning
Any other activity	Refer Daily News papers
Topic Synopsis	(Continue on the reverse side if needed) BODMAS, Fractions, Divisibility rules LCM, GCD


 Signature of the Lecturer

Teaching Plan / Lesson No.

15

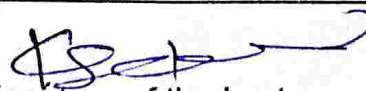
Name of the Topic	Verbal Reasoning
Hours required	10
Learning Objectives	Verbal Reasoning
Previous knowledge to be reminded	Coding, Ab
Examples / Illustrations	Solved Problems
Additional inputs	Objective Questions
Teaching Aids used	Board & Text Book
References cited	CCE, JKE, T-Book
Student Activity Planned after the teaching	Learning, Home work
Activity planned outside the class room, if any	Practices
Any other activity	get to gether
Topic Synopsis	(Continue on the reverse side if needed) Number Series Coding & decoding Blood Relation ship Clocks Calendars


Signature of the Lecturer

Teaching Plan / Lesson No.

17

Name of the Topic	Quantitative Aptitude
Hours required	10
Learning Objectives	Quantitative Aptitude
Previous knowledge to be reminded	Lower class maths
Examples / Illustrations	Solved problems
Additional inputs	Objective Questions
Teaching Aids used	Board & Text Book
References cited	CCE, JEE, T Book.
Student Activity Planned after the teaching	Home work
Activity planned outside the class room, if any	Learning
Any other activity	Practices
Topic Synopsis	(Continue on the reverse side if needed) Averages Ratio and Proportion Problems on ages Time - distance and speed


Signature of the Lecturer

Teaching Plan / Lesson No.

19

Name of the Topic	Business Computations
Hours required	10
Learning Objectives	Business Computations
Previous knowledge to be reminded	Lower class Mathematics
Examples / Illustrations	Solved problems
Additional inputs	Objective Questions
Teaching Aids used	Board & Text Book
References cited	LCE, JES, T-Book
Student Activity Planned after the teaching	Home work
Activity planned outside the class room, if any	Learning
Any other activity	Practises
Topic Synopsis	(Continue on the reverse side if needed) Percentages Profit & Loss Partnership Simple interest Compound interest


Signature of the Lecturer

Teaching Plan / Lesson No.

21

Name of the Topic	DA Data Interpretations
Hours required	10
Learning Objectives	Data Interpretations
Previous knowledge to be reminded	graphs, Circles, Tables (data)
Examples / Illustrations	Solved Problems
Additional inputs	Objective Questions
Teaching Aids used	Board & Text Book
References cited	CCF, JKE, Text Book
Student Activity Planned after the teaching	Home Work
Activity planned outside the class room, if any	Learning
Any other activity	Practices
Topic Synopsis	(Continue on the reverse side if needed) Tabulation Bar Graphs Pie charts Line charts, graphs Venn diagrams


Signature of the Lecturer

I B.Sc - Sem - I
(Major)
Maths & C.S

Advances in Mathematical Sciences 23

Teaching Plan / Lesson No.

Name of the Topic	Mathematical Sciences
Hours required	12
Learning Objectives	Geometry, Calculus
Previous knowledge to be reminded	Intermediate Maths
Examples / Illustrations	Solved Problems
Additional inputs	Objective Questions
Teaching Aids used	Board Board & Study Material
References cited	Aradhami by - own Text Books - Intermediate
Student Activity Planned after the teaching	Home work
Activity planned outside the class room, if any	Practices
Any other activity	Learning.
Topic Synopsis	(Continue on the reverse side if needed) Straight line (2-D) Limits and differentiation Integration Matrices


Signature of the Lecturer