Teaching Scheme						Examination Scheme					
L	Т	Р	C	Hrs/Week	Theory Practical					l Total	
					MS	ES	IA	LW	LE/Viva	Marks	
3	1		4	4	25	50)BJECTI	25			100	
Inte	2. nit-I	phys To r [l Equ	sical nake	s aimed to de problems. students far n: Volterra i	niliar with	h the mether syllable syllable syllable syllable syllable symbols in the synthesis of the synthesynthesis of	us	olving of	f integral eq 10 equation, S	juations.	
				n, Non-linea elation betwe					, Examples		
UN	IT I	Ι							10		
firs sub	st ki ostitu	nd, ition	Solı s, Ite	Determination tion of From trated Kerne oximations.	edholm i ls, Solutio	ntegral e	quation lholm int	by the egral equ	method of uation by the	f successiv	
successive approximations, Voletrra's solution of Fredholm's equation								10			
Fredholm Integral Equations: Fredholm First Theorem, Unique sol								-	of the nor		
hoi The	nege	eneo m, C	us F	Fredholm int gonality of (tegral equ	uation, H	adamard	's Theor	rem, Fredh	olm Secon	
UNIT IV								9			
val	ues	of a	. syr	nel, Orthog nmetric kerr ion of the Fr	nel, Schn	nidt's sol	ution of	the non	homogene	-	
-				E TOTAL		nograf og		LIST KIL		Hours	
				W	OUTCOM	/IES			· · ·		
	0		ssful	completion	<mark>of the cou</mark>	<mark>irse stude</mark>	nts will be	e able to			

2. The can apply different methods to solve integral equations.

3. Students will have much better and deeper understanding of the integral equations.

TEXTS AND REFERENCES

- M. Krasnov, A. Kiselev, G. Makarenko, Problems and Exercises in Integral Equations – Mir Publishers in 1971 A.R Vasistha& A.K Vasistha, Statics and Dynamics, Krishna Publication.
- 2. A D Polyanin , A V Manzhirov, *Handbook of Integral Equation* Chapman & Hall / CRC
- 3. Shanti Swarup, Integral Equations- Krishna Prakashan