Course cod	le	Principles of Programming			L T P J C		
XXXX					3 0 0 0 3		
Pre-requisi	ite				Syllabus version		
					v. xx.xx		
Course Ob	jectives	•					
 To 	help the	e students understand	the fundamental conce	epts of program	ming Languages.		
 To 	help the	e students understand	the fundamental conce	epts of python p	programming basics.		
To learn string handling function in python programming.							
 To 	learn di	fferent list operation	s in python programmii	ng.			
Expected (Course (Outcome:					
• Und	lerstand	the programming co	nstructs of various lang	uages.			
		1 0	al python programming	•			
			ill using python program				
<u> </u>	TOVE THE	problem-solving ski	in using python program	mmg.			
Student Le	arning	Outcomes (SLO):	2,5,7,9				
<u>Student Be</u>	<u></u>	outcomes (SEO)					
Module:1	FUND	AMENTAL PROGR	AMMING	9 hours	SLO: 2		
	CONS'	TRUCTS					
					ions and assignment		
Basic syntax	x and ser	mantics of a higher-le	evel language, Variables	s, types, express	nons, and assignment,		
•		_	evel language, Variables of structures, Functions and	• •			
•		_	0 0	• •			
•	Condition	_	ol structures, Functions an	• •			
Simple I/O, o Module:2	Condition	PRITHMS AND PRO	ol structures, Functions an	9 hours	SLO: 7, 9		
Simple I/O, o Module:2	Condition ALGO ving strat	PRITHMS AND PRO	bl structures, Functions and BLEM-SOLVING	9 hours	SLO: 7, 9		
Simple I/O, o Module:2 Problem-solv	Condition ALGO ving strat	PRITHMS AND PRO	bl structures, Functions and BLEM-SOLVING	9 hours	SLO: 7, 9		
Simple I/O, o Module:2 Problem-solv	ALGO ving strat	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYT	BLEM-SOLVING ams in the problem-solvin	9 hours	SLO: 7, 9		
Module:2 Problem-solve for algorithm Module:3	ALGO ving strat ns INTRO PROG	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYTERAMMING	BLEM-SOLVING ams in the problem-solvin THON	9 hours g process, Imple	SLO: 7, 9 ementation strategies SLO: 7, 9		
Module:2 Problem-solve for algorithm Module:3 The concepts	ALGO ving strates INTRO PROG pt of d	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYTERAMMING lata types; variable	BLEM-SOLVING ams in the problem-solvin THON s, assignments; immu	9 hours g process, Imple hours table variable	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types;		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of	ALGO ving strat as INTRO PROG pt of d operators	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYT RAMMING lata types; variable s and expressions; c	BLEM-SOLVING ams in the problem-solving THON s, assignments; immuseomments in the progra	9 hours g process, Imple https://doi.org/10.1003/10.10	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ding error messages;		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of	ALGO ving strat as INTRO PROG pt of d operators	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYT RAMMING lata types; variable s and expressions; c	BLEM-SOLVING ams in the problem-solvin THON s, assignments; immu	9 hours g process, Imple https://doi.org/10.1003/10.10	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ding error messages;		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of	ALGO ving strat as INTRO PROG pt of d operators	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYT RAMMING lata types; variable s and expressions; c	BLEM-SOLVING ams in the problem-solving THON s, assignments; immuseomments in the progra	9 hours g process, Imple https://doi.org/10.1003/10.10	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ding error messages;		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of Conditions,	ALGO ving strates INTRO PROG pt of deperators boolean	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYT RAMMING lata types; variable s and expressions; on logic, logical opera	BLEM-SOLVING ams in the problem-solving THON s, assignments; immuseomments in the progrators; ranges; Control sta	9 hours g process, Imple https://doi.org/10.1003/10.10	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ling error messages; e, loops (for, while);		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of Conditions,	ALGO ving strates INTRO PROG pt of deperators boolear STRIN	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYT RAMMING lata types; variable s and expressions; on logic, logical opera	BLEM-SOLVING ams in the problem-solving THON s, assignments; immuseomments in the progra	9 hours g process, Imple https://doi.org/10.1003/10.10	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ding error messages;		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of Conditions, Module:4	ALGO ving strates INTRO PROG pt of deperators boolean STRIN PROG	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYT RAMMING lata types; variable s and expressions; of logic, logical opera	BLEM-SOLVING ams in the problem-solving THON s, assignments; immute comments in the progrators; ranges; Control states.	9 hours 9 hours 19 hours 19 hours 11 table variable am; understand atements: if-els 19 hours	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ding error messages; e, loops (for, while); SLO: 7, 9		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of Conditions, Module:4 Strings and	ALGO ving strates INTRO PROG pt of deperators boolean STRIN PROG d text f	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYTERAMMING lata types; variable s and expressions; on logic, logical operations of the properties of	BLEM-SOLVING ams in the problem-solving THON s, assignments; immuseomments in the progrators; ranges; Control sta	9 hours 9 hours 1 y hours 1 y hours 1 table variable am; understance atements: if-els 9 hours 1 os and sys	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ling error messages; e, loops (for, while); SLO: 7, 9 modules; text files:		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of Conditions, Module:4 Strings and reading/wri	INTRO PROG pt of doperators boolean STRIN PROG d text fiting text	PRITHMS AND PRO REGIES, Role of algorith DDUCTION TO PYTERAMMING lata types; variable is and expressions; on logic, logical operations. REGIES MANDLING FUNCTION TO PYTERAMMING Files; manipulating at and numbers from	BLEM-SOLVING ams in the problem-solving THON s, assignments; immute tors; ranges; Control state CTION IN PYTHON files and directories,	9 hours 9 hours 1 y hours 1 y hours 1 y hours 1 table variable am; understand atements: if-els 9 hours 1 os and sys manipulations:	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ding error messages; e, loops (for, while); SLO: 7, 9 modules; text files: subscript operator,		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of Conditions, Module:4 Strings and reading/wri	INTRO PROG pt of doperators boolean STRIN PROG d text fiting text	PRITHMS AND PRO REGIES, Role of algorith DDUCTION TO PYTERAMMING lata types; variable is and expressions; on logic, logical operations. REGIES MANDLING FUNCTION TO PYTERAMMING Files; manipulating at and numbers from	BLEM-SOLVING ams in the problem-solving THON s, assignments; immute tors; ranges; Control state CTION IN PYTHON files and directories, om/to a file;. String	9 hours 9 hours 1 y hours 1 y hours 1 y hours 1 table variable am; understand atements: if-els 9 hours 1 os and sys manipulations:	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ding error messages; e, loops (for, while); SLO: 7, 9 modules; text files: subscript operator,		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of Conditions, Module:4 Strings and reading/wriindexing, s	INTRO PROG pt of doperators boolear STRIN PROG d text fiting text licing a	RITHMS AND PRO tegies, Role of algorith DDUCTION TO PYTHAMMING lata types; variable and expressions; on logic, logical operations and expressions; on logic, logical operations and expressions and expressions; on logic, logical operations and expressions and expressions; or logic, logical operations and expressions; or logic, logical operations and expressions; or logic, string; manipulating at and numbers from string; strings and	BLEM-SOLVING ams in the problem-solving THON s, assignments; immute comments in the progrators; ranges; Control states TCTION IN PYTHON files and directories, om/to a file;. String number system: convergence of the con	9 hours 9 hours 1 y hours 1 y hours 1 y hours 1 table variable am; understand atements: if-els 9 hours 1 os and sys manipulations:	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ding error messages; e, loops (for, while); SLO: 7, 9 modules; text files: subscript operator,		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of Conditions, Module:4 Strings and reading/wriindexing, s	INTRO PROG to boolear STRIN PROG to text fitting text licing a	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYTERAMMING lata types; variable and expressions; on logic, logical operations, manipulating at and numbers from string; strings and	BLEM-SOLVING ams in the problem-solving THON s, assignments; immute comments in the progrators; ranges; Control states TCTION IN PYTHON files and directories, om/to a file;. String number system: convergence of the con	9 hours 9 hours 1 y hours 1 y hours 1 y hours 1 table variable am; understand atements: if-els 9 hours 1 os and sys manipulations:	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ding error messages; e, loops (for, while); SLO: 7, 9 modules; text files: subscript operator,		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of Conditions, Module:4 Strings and reading/wriindexing, serversa. Module:5	INTRO PROG to boolean STRIN PROG d text fi ting text licing a	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYTHAMMING lata types; variable s and expressions; on logic, logical operations, and manufactures and numbers from string; strings and present strings are strings.	BLEM-SOLVING ams in the problem-solving THON s, assignments; immune tors; ranges; Control state CCTION IN PYTHON files and directories, om/to a file;. String and number system: converted.	9 hours 9 hours 19 hours 19 hours 10 phours 11 phours 12 phours 13 phours 14 phours 15 phours 16 phours 17 phours 18 phours 19 hours 19 hours 19 hours 19 hours	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ling error messages; e, loops (for, while); SLO: 7, 9 modules; text files: subscript operator, o numbers and vice SLO: 5		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of Conditions, Module:4 Strings and reading/wriindexing, siversa. Module:5 Lists, tuple	INTRO PROG to boolear STRIN PROG t text f ting text licing a LIST O PROG es, and d	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYT RAMMING lata types; variable s and expressions; of a logic, logical opera NG HANDLING FUN RAMMING files; manipulating at and numbers fro string; strings and DPERATIONS IN PY RAMMING lictionaries; basic list	BLEM-SOLVING ams in the problem-solving THON s, assignments; immute comments in the progrators; ranges; Control states TCTION IN PYTHON files and directories, om/to a file;. String number system: convergence of the con	9 hours 19 hours 19 hours 19 hours 10 phours 11 phours 12 phours 13 phours 14 phours 15 phours 16 phours 17 phours 18 phours 19 hours 19 hours 19 hours 19 hours 19 hours 19 hours	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ling error messages; e, loops (for, while); SLO: 7, 9 modules; text files: subscript operator, o numbers and vice SLO: 5		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of Conditions, Module:4 Strings and reading/wriindexing, siversa. Module:5 Lists, tuple	INTRO PROG to boolear STRIN PROG t text f ting text licing a LIST O PROG es, and d	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYTERAMMING lata types; variable s and expressions; on logic, logical operations and expressions; on logic, logical operations; manipulating at and numbers from string; strings and DPERATIONS IN PYTERAMMING lictionaries; basic listing lists; dictionary lists; dictionary lists	BLEM-SOLVING ams in the problem-solving THON s, assignments; immune tors; ranges; Control state CCTION IN PYTHON files and directories, om/to a file;. String number system: converted to the converted tors and the converted tors. THON toperators, replacing, in iterals, adding and remove	9 hours 9 hours 1 y hours 1 y hours 1 table variable am; understance atements: if-els 9 hours 1 y hours 1 y hours 1 y hours 1 os and sys manipulations: erting strings t	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ling error messages; e, loops (for, while); SLO: 7, 9 modules; text files: subscript operator, o numbers and vice SLO: 5		
Module:2 Problem-solve for algorithm Module:3 The conceparithmetic of Conditions, Module:4 Strings and reading/wriindexing, siversa. Module:5 Lists, tuple	INTRO PROG to boolear STRIN PROG t text f ting text licing a LIST O PROG es, and d	PRITHMS AND PRO tegies, Role of algorith DDUCTION TO PYTERAMMING lata types; variable s and expressions; on logic, logical operations and expressions; on logic, logical operations; manipulating at and numbers from string; strings and DPERATIONS IN PYTERAMMING lictionaries; basic listing lists; dictionary lists; dictionary lists	BLEM-SOLVING ams in the problem-solving THON s, assignments; immute tors; ranges; Control state CCTION IN PYTHON files and directories, om/to a file;. String number system: converted to operators, replacing, in the programment of the converted tors.	9 hours 9 hours 1 y hours 1 y hours 1 table variable am; understance atements: if-els 9 hours 1 y hours 1 y hours 1 y hours 1 os and sys manipulations: erting strings t	SLO: 7, 9 ementation strategies SLO: 7, 9 s; numerical types; ling error messages; e, loops (for, while); SLO: 7, 9 modules; text files: subscript operator, o numbers and vice SLO: 5		

Kenneth A. Lambert, The Fundamentals of Python: First Programs, 2011, Cengage Learning,

	ISBN: 978-1111822705.						
Reference Books							
1.	. R.W. Sebasta, Concepts of Programming Languages, Fifth Edition Addison Wesley, 2002.						
2.	Jeri R. HanlyElliot B. Koffman, Problem Solving and Program Design in C, Addison-Wesley5/E.						
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