

**National Institute of Technology Karnataka, Surathkal**  
**Department of Information Technology**  
**Evaluation Plan of Information Number Theory and Cryptography (IT462)**  
**V<sup>th</sup> Semester B.Tech.(IT), July 2019 – December 2019 Session**

1	Code of the subject	IT462				
2	Title of the subject	Number Theory and Cryptography				
3	LTP (Lecture-Tutorial-Practical) and Credits Structure	(3-0-2) 4 credits				
4	Name of the Course Instructor	Dr. Jaidhar CD				
5	Evaluation Pattern	Mid Semester Examination	Research Paper Implementation / Application Project Implementation / Lab Program with One written Assignment / Lab Programs / (Student can choose any one option (Option-1/Option-2 /Option-3/Option-4))			End Semester Examination
	Syllabus	From 1 <sup>st</sup> class to last class prior to Mid Semester Examination	Option-1 <i>Research Paper Implementation</i>	Option-2 <i>Application Project Implementation</i>	Option-3/ Option-4	From 1 <sup>st</sup> class after Mid Semester Examination to last class prior to End Semester Examination
	Duration	1.5 Hours	---	---	---	Three Hours
	Marks	25	25			50
	Questions	<ul style="list-style-type: none"><li>Question Paper consists of Analytical (problems) and Theory questions (may not be direct). Percentage of Analytical and Theory questions may be 50:50 / 60:40 / 40:60.</li><li>Question Paper consists of Easy Questions, Moderate Questions and Standard Questions.</li><li>All questions are compulsory (i.e. no choice will be in the question paper).</li></ul>				
	Extra Text/Examination	No extra test will be given under any circumstance except genuine medical reason with medical doctor certificate (Only if the candidate is hospitalized for treatment).				
	Assignment/Quiz / Surprise Test	No				
6	Contact Hours	Only from 9:00 AM – 5:00PM only on working days.				
7	Evaluated Answer Books	Evaluated answer scripts of Mid-Semester Examination and End-Semester Examination will be showed to students only on said date and time and it is the student responsibility to see the corrected answer scripts only on scheduled date and time.				

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**Marks Distribution of Research Paper/Application Project Implementation**

Sl. No	Type of Option	Team Size	Evaluation Date	Distribution of Marks	
1	<b>Option-1</b> Research Paper Implementation  (Research paper implementation must be an implementation of published research paper either from IEEE/Elsevier/Springer and not older than 2016).	Team Size is Two	Mid-Sem 9 <sup>th</sup> Sep. 2019 to 13 <sup>th</sup> Sep. 2019	Implementation of <i>Research Paper</i> ( <b>Note:</b> No / Zero marks for incomplete/wrong implementation)	10M
				5 Test Cases and 1 mark for each Test Case. ( <b>Note:</b> No / Zero Marks for Wrong Answer)	2.5M
			End Sem 4 <sup>th</sup> Nov. 2019 To 8 <sup>th</sup> Nov. 2019	Implementation of <i>Research Paper</i> ( <b>Note:</b> No / Zero marks for incomplete/wrong implementation)	10M
				5 Test Cases and 1 mark for each Test Case. ( <b>Note:</b> No / Zero Marks for Wrong Answer)	2.5M
			Total		
2	<b>Option-2</b> Application Project Implementation	Team Size two	Mid-Sem 9 <sup>th</sup> Sep. 2019 To 13 <sup>th</sup> Sep. 2019	Implementation of <i>Application Project</i> ( <b>Note:</b> No / Zero marks for incomplete/wrong implementation)	10M
				5 Test Cases (1 mark for each Test Case) ( <b>Note:</b> No / Zero Marks for Wrong Answer)	2.5M
			End Sem 4 <sup>th</sup> Nov. 2019 To 8 <sup>th</sup> Nov. 2019	Implementation of <i>Application Project</i> ( <b>Note:</b> No/Zero marks for incomplete/wrong implementation)	10M
				5 Test Cases and 1 mark for each Test Case. ( <b>Note:</b> No/ Zero Marks for Wrong Answer)	2.5M
			Total		

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**Marks Distribution of Weekly Laboratory Programs Evaluation**

Sl. No	Type of Option	Individual	Evaluation Date	Distribution of Marks	
3	<b>Option-3</b> Weekly Laboratory Program Evaluation	Individual	Weekly	<ul style="list-style-type: none"> <li>Maximum number of laboratory programs is Ten (10).</li> <li>Maximum marks for each laboratory program are 2.5M.</li> <li>In each laboratory, student has to implement only one program.</li> <li>Evaluation is purely for output of the program against the test case.</li> <li>Maximum number of test cases is Five (5).</li> <li>Weightage for each test case is 0.5M.</li> <li>No/Zero marks for incorrect answer/wrong answer.</li> </ul>	2.5M x 10
				<b>Total</b>	<b>25M</b>

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**Marks Distribution of Weekly Laboratory Programs and One Written**  
**Assignment Evaluation**

4	<b>Option-4</b> Laboratory Program of <b>Maximum Four and One Written Assignment</b>	Individual	Lab Program on Weekly basis.  One written assignment for entire semester.	<ul style="list-style-type: none"> <li>Maximum number of <b>laboratory programs is Four (04)</b> and maximum marks for each laboratory program are 2.5M.</li> <li>In each laboratory, student has to implement only one program and evaluation is purely for output of the program against the test case.</li> <li>Maximum number of test cases is Five (5) and weightage for each test case is 0.5M. No/Zero marks for incorrect answer/wrong answer.</li> </ul>	<b>10M</b>
				One Written Assignment	<b>15M</b>
<div>Total</div>					<b>25M</b>

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