

# **JERUSALEM COLLEGE OF ENGINEERING**

**(An Autonomous Institution)**

**(Approved by AICTE, Affiliated to Anna University**

**Accredited by NBA and NAAC with 'A' Grade)**

**Velachery Main Road, Narayanapuram, Pallikaranai, Chennai – 600 100**



## **REGULATION 2023- CURRICULUM 2023**

### **CHOICE BASED CREDIT SYSTEM**

## **B.TECH. - INFORMATION TECHNOLOGY CURRICULUM**

**JERUSALEM COLLEGE OF ENGINEERING****(An Autonomous Institution Affiliated to Anna University, Chennai)****B.TECH INFORMATION TECHNOLOGY****REGULATION– 2023  
CHOICE BASED CREDIT SYSTEM****I - VIII SEMESTERS CURRICULUM****SEMESTER I**

<b>S. No</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>T/P/I</b>	<b>CATEGORY</b>	<b>CONTACT PERIODS</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	JHS2121	English For Communicative Competence	I	HS	4	2	0	2	3
2.	JGE2102	Heritage of Tamils	T	HS	1	1	0	0	1
3.	JMA2121	Matrices and Calculus	I	BS	4	2	2	0	3
4.	JPH2101	Engineering Physics 1	T	BS	3	3	0	0	3
5.	JCY2101	Engineering Chemistry	T	BS	3	3	0	0	3
6.	JGE2101	Basic Engineering	T	ES	3	3	0	0	3
7.	JCS2121	Programming in C	I	ES	5	3	0	2	4
8.	JPC2111	Engineering Physics and Chemistry Laboratory	P	BS	2	0	0	2	1
9.	JGE2111	Basic Engineering Laboratory	P	ES	2	0	0	2	1
<b>TOTAL</b>					<b>27</b>	<b>17</b>	<b>0</b>	<b>10</b>	<b>22</b>

## SEMESTER II

<b>S. No</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>T/P/I</b>	<b>CATEGORY</b>	<b>CONTACT PERIODS</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	JHS2221	English for Science and Technology	I	HS	4	2	0	2	3
2.	JGE2202	Tamils and Technology	T	HS	1	1	0	0	1
3.	JMA2221	Statistics for Engineers	I	BS	4	2	2	0	3
4.	JPH2201	Engineering Physics 2	T	BS	3	3	0	0	3
5.	JCY2201	Environmental Science and Sustainability	T	BS	2	2	0	0	2
6.	JGE2221	Engineering Graphics	I	ES	4	2	0	2	3
7.	JCS2201	Python Programming	T	PC	3	3	0	0	3
8.	JPC2211	Engineering Physics and Environmental Science Laboratory	P	BS	2	0	0	2	1
9.	JCS2211	Python Programming Laboratory	P	PC	4	0	0	4	2
10.	JGE2241	Gaming Craft Studio	P	EEC	4	0	0	4	2
<b>TOTAL</b>					<b>31</b>	<b>15</b>	<b>0</b>	<b>16</b>	<b>23</b>

### SEMESTER III

Sl. No	COURSE CODE	COURSE TITLE	T/P/I	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	JMA2302	Mathematical Foundations for Computer Science	T	BS	4	2	2	0	3
2.	JCS2322	Data Structures and algorithms	T	PC	3	3	0	0	3
3.	JIT2301	Object Oriented Programming	T	PC	3	3	0	0	3
4.		Digital Principles and Computer Organization	I	PC	5	3	0	2	4
5.	JIT2321	Data Communication and Networks	I	PC	5	3	0	2	4
6.	JNC2361	Disaster Risk Reduction and Management	T	NCM	3	3	0	0	-
7.	JPT2041	Soft Skills and Aptitude	P	EEC	2	0	0	2	*
8.	JCS2312	Data Structures and algorithms Laboratory	P	PC	4	0	0	4	2
9.	JIT2311	Object Oriented Programming Laboratory	P	PC	4	0	0	4	2
<b>TOTAL</b>					<b>33</b>	<b>17</b>	<b>2</b>	<b>14</b>	<b>21</b>

\*Only internal assessment

**SEMESTER IV**

<b>Sl. No</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>T/P/I</b>	<b>CATEGORY</b>	<b>CONTACT PERIODS</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	JMA2402	Applied Linear Algebra	T	BS	4	2	2	0	3
2.	JIT2402	Software Engineering	T	PC	3	3	0	0	3
3.		Database Management Systems	T	PC	3	3	0	0	3
4.	JIT2421	Operating Systems	I	PC	5	3	0	2	4
5.	-	Professional Elective 1	T	PE	3	3	0	0	3
6.	-	Open Elective 1	T	OE	3	3	0	0	3
7.	JPT2041	Soft Skills and Aptitude	P	EEC	2	0	0	2	1
8.	JIT2411	Database Management Systems Laboratory	P	PC	4	0	0	4	2
9.	JGE2442	Advanced It Infrastructure Laboratory	P	EEC	4	0	0	4	2
<b>TOTAL</b>					<b>31</b>	<b>17</b>	<b>2</b>	<b>12</b>	<b>24</b>

## SEMESTER V

Sl. No	COURSE CODE	COURSE TITLE	T/P/I	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	JMA2501	Optimization Techniques	T	BS	4	2	2	0	3
2.	JIT2521	Intelligent Systems	I	PC	5	3	0	2	4
3.	JIT2501	Web Applications Framework	T	PC	3	3	0	0	3
4.	JIT2522	Object Oriented Analysis and Design	I	PC	5	3	0	2	4
5.	-	Professional Elective 2	T	PE	3	3	0	0	3
6.	-	Open Elective 2	T	OE	3	3	0	0	3
7.	JPT2042	Technical Skills and Aptitude	P	EEC	2	0	0	2	*
8.	JIT2511	Web Applications Framework Laboratory	P	PC	4	0	0	4	2
9.	JGE2542	MERN Stack Development Laboratory	P	EEC	4	0	0	4	2
<b>TOTAL</b>					<b>33</b>	<b>17</b>	<b>2</b>	<b>14</b>	<b>24</b>

**\*Only internal assessment**

## SEMESTER VI

Sl. No	COURSE CODE	COURSE TITLE	T/P/I	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	JIT2601	Internet of Things	T	PC	3	3	0	0	3
2.	JIT2602	Mobile Programming	I	PC	5	3	0	2	4
3.	JIT2621	Fundamentals of Web Scrapping	T	PC	3	3	0	0	3
4.	-	Professional Elective 3	T	PE	3	3	0	0	3
5.	-	Professional Elective 4	T	PE	3	3	0	0	3
6.	-	Open Elective 3	T	OE	3	3	0	0	3
7.	JHS2541	Professional Communication	P	HS	2	0	0	2	1
8.	JIT2611	Internet of Things Laboratory	P	PC	4	0	0	4	2
9.	JPT2042	Technical Skills and Aptitude	P	EEC	2	0	0	2	1
10.	JGE2642	Computational Intelligence Laboratory	P	EEC	4	0	0	4	2
<b>TOTAL</b>					<b>32</b>	<b>18</b>	<b>0</b>	<b>14</b>	<b>25</b>

### SEMESTER VII

S. No	COURSE CODE	COURSE TITLE	T/P/I	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	-	Professional Elective 5	T	PE	3	3	0	0	3
2.	-	Professional Elective 6	T	PE	3	3	0	0	3
3.	-	Open Elective 4	T	OE	3	3	0	0	3
4.	JNC2761	Industrial Safety	T	NCM	2	2	0	0	-
5.	JIT2741	Comprehension and Technical Seminar	P	EEC	2	0	0	2	1
6.	JHS2741	Entrepreneurship for Engineers	P	HS	2	0	0	2	1
7.	JIT2742	Internship	P	EEC	-	-	-	4**	2
<b>TOTAL</b>					<b>15</b>	<b>11</b>	<b>0</b>	<b>8</b>	<b>13</b>

### SEMESTER VIII

S. No	COURSE CODE	COURSE TITLE	T/P/I	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	JIT2831	Project Work	P	PC	20	0	0	20	10
<b>TOTAL</b>					<b>20</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>10</b>



**B.TECH INFORMATION TECHNOLOGY**

**REGULATION 2023**

**CHOICE BASED CREDIT SYSTEM**

**I TO VIII SEMESTERS CURRICULUM**

**COURSE SUMMARY SHEET**

S.No.	CATEGORY	CREDITS AS PER SEMESTER								CREDITS TOTAL
		I	II	III	IV	V	VI	VII	VIII	
1	HS	4	4	-	-	-	2	1	-	11
2	BS	10	9	3	3	3	-	-	-	28
3	ES	8	3	-	-	-	-	-	-	11
4	PC	-	5	18	12	13	12	-	10	70
5	PE	-	-	-	3	3	6	6	-	18
6	OE	-	-	-	3	3	3	3	-	12
7	EEC	-	2	-	3	2	2	3	-	12
<b>Total</b>		<b>22</b>	<b>23</b>	<b>21</b>	<b>24</b>	<b>25</b>	<b>25</b>	<b>13</b>	<b>10</b>	<b>162</b>