

## 7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN COMPUTER ENGINEERING (J&K)

### FIRST SEMESTER

Sr. No	Subject	STUDY SCHEME				EVALUATION SCHEME						Total Marks
						Internal Assessment		External Assessment (Examination)				
		Hrs/week				Theory	Practical	Written Paper		Practical		
		L	T	P	Cr	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
1.1.*	English & Communication Skills – I	3	-	2	4	15	10	100	3	50	3	175
1.2.*	Applied Mathematics-I	5	-	-	5	25	-	100	3	-	-	125
1.3*	Applied Physics-I	4	-	2	5	15	10	100	3	50	3	175
1.4**	Fundamentals of Electrical Engg.	3	-	2	4	15	10	100	3	50	3	175
1.5.*	Basics of Information Technology	-	-	4	2	-	25	-	-	75	3	100
1.6.*	Engineering Drawing-I	-	-	6	3	-	25	100	4	25 (Viva)	-	150
1.7.*	General Workshop Practice-I	-	-	6	3	-	25	-	-	75+25+	3	125
# Student Centred Activities		-	-	3	2	-	25	-	-	-	-	25
<b>Total</b>		<b>15</b>	<b>-</b>	<b>25</b>	<b>28</b>	<b>70</b>	<b>130</b>	<b>500</b>	<b>-</b>	<b>350</b>	<b>-</b>	<b>1050</b>

\* Common with other diploma programmes

\*\* Common with diploma programmes in ECE, Information Technology

+ Includes 25 marks for Viva-voce

# Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

**Note:**

As per AICTE Norms, each semester has to be of 16 weeks duration for teaching (excluding examination and vacation), and 40 contact hours per week for teaching out of which about 4 hours/week should be devoted to student centred activities.

## SECOND SEMESTER (Computer Engineering)

Sr. No	Subject	STUDY SCHEME				EVALUATION SCHEME						Total Marks
						Internal Assessment		External Assessment (Examination)				
		Hrs/week				Theory	Practical	Written Paper		Practical		
		L	T	P	Cr	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
2.1*	English & Communication Skills –II	3	-	2	4	15	10	100	3	50	3	175
2.2*	Applied Mathematics-II	5	-	-	5	25	-	100	3	-	-	125
2.3*	Applied Physics-II	4	-	2	5	15	10	100	3	50	3	175
2.4**	Basic Electronics	4	-	2	5	15	10	100	3	50	3	175
2.5++	Programming in C	3	-	6	6	15	10	100	3	50	3	175
2.6.*	General Workshop Practice – II	-	-	6	3	-	25	-	-	75+25+	3	125
# Student Centred Activities including Ecology and Environmental Awareness Camp		-	-	3	2	-	25	-	-	-	-	25
<b>Total</b>		<b>19</b>	<b>-</b>	<b>21</b>	<b>30</b>	<b>85</b>	<b>90</b>	<b>500</b>	<b>-</b>	<b>300</b>	<b>-</b>	<b>975</b>

\* Common with other diploma programmes

\*\* Common with diploma programmes in ECE, Information Technology, Instrumentation and Control

+ Includes 25 marks for Viva-voce

++ Common with diploma programmes in Information Technology

# Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

**Note:**

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### THIRD SEMESTER (Computer Engineering)

Sr. No	Subject	STUDY SCHEME				EVALUATION SCHEME						Total Marks
						Internal Assessment		External Assessment (Examination)				
		Hrs/week				Theory	Practical	Written Paper		Practical		
		L	T	P	Cr	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
3.1++	Operating Systems	3	-	4	5	15	10	100	3	50	3	175
3.2++	General Engineering	4	-	2	5	15	10	100	3	50	3	175
3.3++	Object Oriented Programming using C++	3	-	6	6	15	10	100	3	50	3	175
3.4++	Microprocessor	3	-	2	4	15	10	100	3	50	3	175
3.5++	Data Communication	3	-	-	3	25	-	100	3	-	-	125
3.6++	Computer Workshop	-	-	6	3	-	25	-	-	75+ 25 for viva	-	125
# Student Centred Activities		-	-	4	2	-	25	-	-	-	-	25
<b>Total</b>		<b>16</b>	<b>-</b>	<b>24</b>	<b>28</b>	<b>85</b>	<b>90</b>	<b>500</b>	<b>-</b>	<b>300</b>	<b>-</b>	<b>975</b>

++ Common with diploma programmes in Information Technology

# Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

**Note:**

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## FOURTH SEMESTER (Computer Engineering)

Sr. No	Subject	STUDY SCHEME				EVALUATION SCHEME						Total Marks
						Internal Assessment		External Assessment (Examination)				
		Hrs/week				Theory	Practical	Written Paper		Practical		
		L	T	P	Cr	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
4.1++	Data Structures	3	-	4	5	15	10	100	3	50	3	175
4.2++	Visual Basic	3	-	6	6	15	10	100	3	50	3	175
4.3++	Relational Database Management System (RDBMS)	3	-	3	4.5	15	10	100	3	50	3	175
4.4++	Computer Graphics	3	-	3	4.5	15	10	100	3	50	3	175
4.5++	Computer Networks	3	-	2	4	15	10	100	3	50	-	175
4.6	Computer Peripherals	3	-	2	4	15	10	100	3	50	-	175
# Student Centred Activities including Entrepreneurial Awareness Camp		-	-	2	2	-	25	-	-	-	-	25
<b>Total</b>		<b>18</b>	<b>-</b>	<b>22</b>	<b>30</b>	<b>90</b>	<b>85</b>	<b>600</b>	<b>-</b>	<b>300</b>	<b>-</b>	<b>1075</b>

++ Common with diploma programmes in Information Technology

# Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

**Note:**

As per AICTE Norms, each semester has to be of 16 weeks duration for teaching (excluding examination and vacation), and 40 contact hours per week for teaching out of which about 4 hours/week should be devoted to student centred activities.

## FIFTH SEMESTER (Computer Engineering)

Sr. No	Subject	STUDY SCHEME				EVALUATION SCHEME						Total Marks
						Internal Assessment		External Assessment (Examination)				
		Hrs/week				Theory	Practical	Written Paper		Practical		
		L	T	P	Cr	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
5.1	Computer Organization & Architecture	3	-	-	3	25	-	100	3	-	3	125
5.2++	EDP & Management	4	-	-	4	25	-	100	3	-	3	125
5.3++	Elective-I	3	-	6	6	15	10	100	3	50	3	175
5.4++	Internet and Web Designing	3	-	4	5	15	10	100	3	50	3	175
5.5	Software Engineering	3	-	-	3	25	-	100	3	-	3	125
5.6	Minor Project Work	-	-	8	4	-	50	-	-	100	-	150
# Student Centred Activities		-	-	6	2	-	25	-	-	-	-	25
<b>Total</b>		<b>16</b>	<b>-</b>	<b>24</b>	<b>27</b>	<b>105</b>	<b>95</b>	<b>500</b>	<b>-</b>	<b>200</b>	<b>-</b>	<b>900</b>

**Elective – I :** To Choose one from the following

- a) Network Operating System (b) Visual C++ c) .Net Technologies

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### SIXTH SEMESTER (Computer Engineering)

Sr. No	Subject	STUDY SCHEME				EVALUATION SCHEME						Total Marks
						Internal Assessment		External Assessment (Examination)				
		Hrs/week				Theory	Practical	Written Paper		Practical		
		L	T	P	Cr	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
6.1	Computer System Maintenance	2	-	6	5	15	10	100	3	50	3	175
6.2++	Multimedia Applications	3	-	6	6	15	10	100	3	50	3	175
6.3	Advanced Microprocessors	4	-	2	5	15	10	100	3	50	3	175
6.4++	Elective-II	3	-	-	3	25	-	100	3	-	3	125
6.5*	Advanced Computer Architecture	3	-	-	3	25	-	100	3	-	-	125
6.6	Major Project Work	-	-	8	4	-	100	-	-	200	3	300
	# Student Centred Activities	-	-	3	2	-	25	-	-	-	-	25
	<b>Total</b>	<b>15</b>	<b>-</b>	<b>25</b>	<b>28</b>	<b>95</b>	<b>155</b>	<b>500</b>	<b>-</b>	<b>350</b>	<b>-</b>	<b>1100</b>

**Elective – II : To Choose one from the following**

- a) Artificial Intelligence    b) Network Security    C) Mobile Communication    d) Datamining and Warehousing

\* Common with other Diploma Programmes

++ Common with diploma programmes in Information Technology

# Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

*Note:*

*As per AICTE Norms, each semester has to be of 16 weeks duration for teaching (excluding examination and vacation), and 40 contact hours per week for teaching out of which about 4 hours/week should be devoted to student centred activities.*