

**Raffles University, Neemrana  
School of Engineering and Technology  
Scheme for DIPLOMA (3 Year Course)**

## **SCHEME OF EXAMINATION**

**&**

## **DETAILED SYALLBUS**

**for**

**DIPLOMA**

**In**

**[Electrical Engineering]**

**Offered by**

**Raffles University Neemrana  
School of Engineering and Technology**

**(Batch 2016-2019)**



**Raffles University, Neemrana, Rajasthan [INDIA]- 301705**

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**Raffles University, Neemrana**  
**School of Engineering and Technology**  
**Scheme for DIPLOMA (3 Year Course)**

**Department of Electrical Engineering**

**Scheme For Batch 2016-2019**

**Semester I**

Subject Code	Title	Hrs/Week			IA	Exam	Total	Credits	
		L	T	P					
DCE-101	Applied Mathematics-I	3	1	Theory Subjects	25	75	100	4	
DCE-102	Applied Physics-I	3	1		25	75	100	4	
DCE-103	Applied Mechanics	3	1		25	75	100	4	
DCE-104	Environmental Science & Engineering	3	-		25	75	100	3	
DCE-105	Computer Fundamental & Pc Package	3	-		25	75	100	3	
DCE-106	Functional English-I	3	-		-	50	50	3	
DCE-P-101	Applied Physics-I Lab				2	20	30	50	1
DCE-P-102	Applied Mechanics Lab				2	20	30	50	1
DCE-P-103	Computer Fundamental & Pc Package- Lab				2	20	30	50	1
DCE-P-104	General Proficiency				-	50	-	50	1
	<b>Total</b>	<b>18</b>	<b>3</b>	<b>6</b>			<b>750</b>	<b>25</b>	

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**Year I**

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**Semester II**

Subject Code	Title	Hrs/Week			IA	Exam	Total	Credits	
		L	T	P					
DCE-201	Applied Mathematics-II	3	1	Theory Subjects	25	75	100	4	
DCE-202	Applied Physics-II	3	1		25	75	100	4	
DCE-203	Applied Chemistry	3	1		25	75	100	4	
DCE-204	Engineering Drawing	3	-		25	75	100	3	
DCE-205	Functional English-II	3	-		25	75	100	3	
DCE-P-201	Engineering Drawing Lab	Practical laboratory courses			3	20	30	50	2
DCE-P-202	Applied Physics-II Lab				2	20	30	50	1
DCE-P-203	Applied Chemistry Lab				2	20	30	50	1
DCE-P-204	Workshop Practice Lab				3	20	30	50	2
DCE-P-205	General Proficiency				-	50	-	50	1
	<b>Total</b>	<b>15</b>	<b>3</b>	<b>10</b>			<b>750</b>	<b>25</b>	

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**Semester III**

<b>Course</b>	<b>Electrical Engineering</b>	<b>Code</b>	<b>EE</b>
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Subject Code	Title	Hrs/Week			IA	Exam	Total	Credits	
		L	T	P					
DEE-301	Fundamental Of Electronics	3	1	Theory Subjects	25	75	100	4	
DEE-302	Electrical Materials And Circuits	3	1		25	75	100	4	
DEE-303	Electrical Machine-I	3	1		25	75	100	4	
DEE-304	Electrical And Electronics Measurement And Measuring Instruments	3	1		25	75	100	4	
DEE-305	Non Conventional Sources of Energy	3	1		25	75	100	4	
DEE-P-301	Fundamental Of Electronics Lab	Practical laboratory courses			2	20	30	50	1
DEE-P-302	Electrical Materials and Circuits Lab				2	20	30	50	1
DEE-P-303	Electrical Machine-I Lab				2	20	30	50	1
DEE-P-304	Electrical And Electronics Measurement And Measuring Instrument Lab				2	20	30	50	1
DEE-P-305	General Proficiency				-	50	-	50	1
	<b>Total</b>	<b>15</b>	<b>5</b>	<b>8</b>			<b>750</b>	<b>25</b>	

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**Year II**

**Scheme For Batch 2016-2019**

**Semester IV**

<b>Course</b>	<b>Electrical Engineering</b>	<b>Code</b>	<b>EE</b>
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Subject Code	Title	Hrs/Week			IA	Exam	Total	Credits	
		L	T	P					
DEE-401	Generation Transmission and Distribution of Electric Power	3	1	Theory Subjects	25	75	100	4	
DEE-402	Electrical Engineering Drawing	3	1		25	75	100	4	
DEE-403	Electrical Machine- I	3	1		25	75	100	4	
DEE-404	General Mechanical Engineering	3	1		25	75	100	4	
DEE-405	Industrial Management	3	1		25	75	100	4	
DEE-P-401	Generation Transmission and Distribution Lab	Practical laboratory courses			2	20	30	50	1
DEE-P-402	Electrical Machine- II Lab				2	20	30	50	1
DEE-P-403	General Mechanical Engineering Lab				2	20	30	50	1
DEE-P-404	Electrical Engineering Drawing Lab				2	20	30	50	1
DEE-P-405	General Proficiency				-	50	-	50	1
<b>Total</b>		<b>15</b>	<b>5</b>	<b>8</b>			<b>750</b>	<b>25</b>	

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**Semester V**

<b>Course</b>	<b>Electrical Engineering</b>	<b>Code</b>	<b>EE</b>
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Subject Code	Title	Hrs/Week			IA	Exam	Total	Credits	
		L	T	P					
DEE-501/502	Elective	3	1		25	75	100	4	
DEE-503	Instrumentation And Control	3	1	Theory Subjects	25	75	100	4	
DEE-504	Power Electronics	3	1		25	75	100	4	
DEE-505	Switchgear Operation And Protection	3	1		25	75	100	4	
DEE-506	Utilization Of Electrical Power	3	1		25	75	100	4	
DEE-P-501	Instrumentation And Control Lab	Practical laboratory courses			2	20	30	50	1
DEE-P-502	Power Electronics Lab				2	20	30	50	1
DEE-P-503	Switchgear Operation And Protection Lab				2	20	30	50	1
DEE-P-504	Utilization Of Electrical Power Lab				2	20	30	50	1
DEE-P-505	General Proficiency				-	50	-	50	1
<b>Total</b>		<b>15</b>	<b>5</b>	<b>8</b>			<b>750</b>	<b>25</b>	

List of Electives:

1. DEE-501 Electrical Estimating and Costing
2. DEE-502 Energy Management

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**Semester VI**

Course	Electrical Engineering	Code	EE						
<b>Subject Code</b>	<b>Title</b>	<b>Hrs/Week</b>			<b>IA</b>	<b>Exam</b>	<b>Total</b>	<b>Credits</b>	
		<b>L</b>	<b>T</b>	<b>P</b>					
DEE-601	Electric Traction	3	1	Theory Subjects	25	75	100	4	
DEE-602	Energy Conservation And Management	3	1		25	75	100	4	
DEE-603	Testing And Maintenance of Electrical Machines	3	1		25	75	100	4	
DEE-604	EXTRA HIGH VOLTAGE AC/DC	3	1		25	75	100	4	
DEE-605	MICROPROCESSOR AND CONTROL SYSTEM COMPONENT	3	1		25	75	100	4	
DEE-P-601	Electric Traction Lab	Practical laboratory courses			2	20	30	50	1
DEE-P-602	Testing And Maintenance Of Electrical Machines Lab				2	20	30	50	1
DEE-P-603	Industrial Project				4	50	50	100	2
DEE-P-604	General Proficiency				-	50	-	50	1
	<b>Total</b>	<b>15</b>	<b>5</b>	<b>8</b>			<b>750</b>	<b>25</b>	