

MIT WORLD PEACE UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

B. Tech. (First Year) (Batch 2021 – 2025)

Trimester – I

Sr. No.	Course Code	Name of Course	Type	Total Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Theory	Lab	CCA *	LCA *	ETT	Total
1	SCI101B	Linear Algebra and Differential Calculus	BS	30	15		3	-	100	-	50	150
2	SCI102B	Physics	BS	30	15	30	3	1	100	50	50	200
3	CVE101B	Mechanics	BS	45	-	30	3	1	100	50	50	200
4	MEE101B	Workshop Practices	ES	-	-	30	-	1	-	50	-	50
5	FET101B	Effective Communication	HSS	15	-	30	1	1	50	50	-	100
6	WPC101A	World Famous Philosophers, Sages/Saints and Great Kings	WP	30	-	-	2	-	70	-	30	100
7	WPC001A	Yoga - for Winning Personality	WP	-	-	-	-	-	-	-	-	-
		Total		150	30	120	12	4	420	200	180	800

****Assessment Marks are valid only if Attendance criteria are met**

* CCA: Class Continuous Assessment

* LCA: Laboratory Continuous Assessment

Trimester Teaching Hours: 300 Hours

Total Credits First Year BTech Trimester - I: 16

MIT WORLD PEACE UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

B. Tech. (First Year) (Batch 2021 – 2025)

Trimester – II

Sr. No.	Course Code	Name of Course	Type	Total Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Theory	Lab	CCA*	LCA*	ETT	Total
1	SCI103B	Integral Calculus	BS	30	15	-	3	-	100	-	50	150
2	SCI104B	Chemistry	BS	30	-	30	2	1	50	50	50	150
3	MEE102B	Material Science	BS	30	-	-	2	-	50	-	50	100
4	MEE103B	Engineering Graphics	ES	30	-	30	2	1	50	50	50	150
5	CET101B	Programming and Problem Solving	ES	30	-	30	2	1	50	50	50	150
6		Rural Immersion	HSS	-	-	-	-	-	-	-	-	-
7	WPC001A	Yoga - for Winning Personality	WP	-	-	-	-	-	-	-	-	-
		Total		150	15	90	11	3	300	150	250	700

Trimester Teaching Hours: 300 Hours
Total Credits First Year B.Tech Trimester - II: 14

****Assessment Marks are valid only if Attendance criteria are met**

* CCA: Class Continuous Assessment

* LCA: Laboratory Continuous Assessment

MIT WORLD PEACE UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

B. Tech. (First Year) (Batch 2021 – 2025)
Trimester – III

Sr. No.	Course Code	Name of Course	Type	Total Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Theory	Lab	CCA*	LCA*	ETT	Total
1	SCI105B	Biology for Engineers	BS	30	-	-	2	-	50	-	50	100
2	MEE104B	Design Thinking Laboratory	ES	-	-	30	-	1	-	50	-	50
3	ECE101B	Basics of Electrical and Electronics Engineering	ES	45	-	30	3	1	100	50	50	200
4	MEE105B	Basics of Mechanical Engineering	ES	30	-	30	2	1	50	50	50	150
5	CVE102B	Basics of Civil Engineering	ES	30	-	30	2	1	50	50	50	150
6	WPC302A	Study of Languages, Peace in Communications and Human Dynamics	WP	30	-	-	2	-	70	-	30	100
7	WPC001A	Yoga - for Winning Personality	WP	-	-	-	-	-	-	-	-	-
		Total		165	-	120	11	4	320	200	230	750

****Assessment Marks are valid only if Attendance criteria are met**

* CCA: Class Continuous Assessment

* LCA: Laboratory Continuous Assessment

Trimester Teaching Hours: 300 Hours
Total Credits First Year BTech Trimester - III: 15

Total FY BTech Credits: 16 + 14 + 15 = 45

MIT WORLD PEACE UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

B. Tech. Electrical and Computer Engineering (Second Year) (Batch 2021 – 2025)
Trimester – IV

Sr. No.	Course Code	Name of Course	Type	Total Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Theory	Lab	CCA*	LCA*	ETT	Total
1	EEE	Transform Techniques and Calculus	BS	30	15	-	2	1(T)	100	-	50	150
3	ECE	Analog and Digital Electronics	ES	30	-	30	2	1	50	50	50	150
4	EEE	Electrical Machines – I	PC	30	-	30	2	1	50	50	50	150
5	CET	Operating Systems	PC	15		-	1	-	50	-	-	50
6	EEE	Control Systems	PC	30	-	30	2	1	50	50	50	150
7	CET	Object Oriented Programming	PC	-	-	30	-	1	-	50	-	50
8	HSS	Indian Constitution	HSS	15	-	-	1	-	50	-	-	50
		Total		150	15	120	10	5	350	200	200	750

****Assessment Marks are valid only if Attendance criteria are met**

* CCA: Class Continuous Assessment

Trimester Teaching Hours: 300 Hours

Dr. Prasad Khandekar
 Dean

MIT WORLD PEACE UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

B. Tech. Electrical and Computer Engineering (Second Year) (Batch 2021 – 2025)
Trimester – V

Sr. No.	Course Code	Name of Course	Type	Total Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Theory	Lab	CCA*	LCA*	ETT	Total
1	SCI(MATHS)	Discrete Mathematics	BS	30	15	-	2	1 (T)	100	-	50	150
2	ECE	Analog and Digital Integrated circuits	PC	30	-	30	2	1	50	50	50	150
3	EEE	Electrical Machines – II	ES	30	-	30	2	1	50	50	50	150
4	EEE	Electrical Circuit Analysis	ES	30	-	-	2	-	50	-	50	100
5	ECE	Basic IoT Laboratory	PC	-	-	60	-	2	-	100	-	100
6	WPC	Philosophy of Science and Religion/Spirituality	WP	30	-	-	2	-	70	-	30	100
7		National Study Tour	-	-	-	-	-	-	-	-	-	-
		Total		150	15	120	10	5	320	200	230	750

****Assessment Marks are valid only if Attendance criteria are met**

* CCA: Class Continuous Assessment

Trimester Teaching Hours: 255 Hours

MIT WORLD PEACE UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

B. Tech. Electrical and Computer Engineering (Second Year) (Batch 2021 – 2025)
Trimester – VI

Sr. No.	Course Code	Name of Course	Type	Total Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Theory	Lab	CCA *	LCA *	ETT	Total
1	SCI105B	Probability and Statistics	BS	30	15	-	2	1 (T)	100	-	50	150
2	EEE	PLC and Automation	PC	30	-	30	2	1	50	50	50	150
3	CET	Data Structure and Algorithms	PC	30	-	30	2	1	50	50	50	150
4	EEE	Power Systems	PC	30	-	30	2	1	50	50	50	150
5	EEE	Switchgear and Protection	PC	30	-	30	2	1	50	50	50	150
6	HSS	Environmental Science	BS	15	-	-	1	-	-	-	50	50
7	FET	Employment Skills Development – I	AC	-	-	-	-	-	-	-	-	-
		Total		165	15	120	11	5	300	200	300	800

****Assessment Marks are valid only if Attendance criteria are met**

* CCA: Class Continuous Assessment

* LCA: Laboratory Continuous Assessment

Trimester Teaching Hours: 300Hours

Total Credits Second Year BTech Trimester - VI: 16

Total SY BTech Credits: 15 + 15 + 16 = 46

MIT WORLD PEACE UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

B. Tech. Electrical and Computer Engineering (Third Year) (Batch 2021 – 2025)
Trimester – VII

Sr. No.	Course Code	Name of Course	Type	Total Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Theory	Lab	CCA	LCA	ETT	Total
1	EEE	Renewable Energy Systems	PC	30	-	-	2	-	50	-	50	100
2	EEE	Microprocessors and Microcontrollers	PC	30	-	30	2	1	50	50	50	150
3	EEE	Communication Protocols	PC	30	-	30	2	1	50	50	50	150
4	EEE	Database Management Systems	PC	30	-	30	2	1	50	50	50	150
5	CET	Linux based Python Laboratory	PC	-	-	30	-	1	-	50	-	50
6	OE	Open Elective – I Green Energy Introduction to eVehicles	OE	30	-	-	2	-	50	-	50	100
7	WPC5	Indian Tradition, Culture and Heritage	WP	30	-	-	2	-	70	-	30	100
8	FET	Employment Skills Development – II	AC	-	-	-	-	-	-	-	-	-
		Total		180	-	120	12	4	320	200	280	800



****Assessment Marks are valid only if Attendance criteria are met**

* CCA: Class Continuous Assessment

* LCA: Laboratory Continuous Assessment

Trimester Teaching Hours: 300 Hours

Total Credits Third Year BTech Trimester - VII: 16

MIT WORLD PEACE UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

B. Tech. Electrical and Computer Engineering (Third Year) (Batch 2021 – 2025)
Trimester – VIII

Sr. No.	Course Code	Name of Course	Type	Total Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Theory	Lab	CCA	LCA	ETT	Total
1	CET	AI and ML	PC	30	-	30	2	1	50	50	50	150
2	EEE	Power Electronics	PC	30	-	30	2	1	50	50	50	150
3	EEE	Professional Elective – I Power Quality Java Programming	PE	30	-	30	2	1	50	50	50	150
4	CET	Full Stack Development	PC	30	-	30	2	1	50	50	50	150
5	HSS	Finance and Costing	HSS	30	-	-	2	-	50	-	50	100
6	WPC	Humanities - Ethical, Moral and Social Sciences	WP	30	-	-	2	-	70	-	30	100
		Total		180	-	120	12	4	320	200	280	800

****Assessment Marks are valid only if Attendance criteria are met**

* CCA: Class Continuous Assessment

Trimester Teaching Hours: 300 Hours

Total Credits Third Year BTech Trimester -VIII: 16

* LCA: Laboratory Continuous Assessment

MIT WORLD PEACE UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

B. Tech. Electrical and Computer Engineering (Third Year) (Batch 2021 – 2025)
Trimester – IX

Sr. No.	Course Code	Name of Course	Type	Total Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Theory	Lab	CCA	LCA	ETT	Total
1	CET	Data Science for Engineers	PC	30	-	30	2	1	50	50	50	150
2	EEE	Electric Vehicle Technology	PC	30	-	30	2	1	50	50	50	150
3	EEE	Professional Elective – II: Smart Grid systems Software Engg. And Project Management	PE	30	-	30	2	1	50	50	50	150
4	OEE	Open Elective – II Energy Management Introduction to Robotics	OE	30	-	-	2	-	50	-	50	100
5	EEE	Mini Project/Interdisciplinary Project	PC	-	-	30	-	1	-	50	-	50
6	WPC	Scientific Studies of Mind, Matter, Spirit and Consciousness	WP	30	-	-	2	-	70	-	30	100

		Total		150	-	120	10	4	270	200	230	700
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****Assessment Marks are valid only if Attendance criteria are met**

* CCA: Class Continuous Assessment

* LCA: Laboratory Continuous Assessment

Trimester Teaching Hours: 300 Hours

Total Credits Third Year BTech Trimester - IX: 14

Total TY BTech Credits: 16 + 16 + 14 = 46

MIT WORLD PEACE UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

B. Tech. Electrical and Computer Engineering (Final Year) (Batch 2021 – 2025)
Trimester – X

Sr. No.	Course Code	Name of Course	Type	Total Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Theory	Lab	CCA	LCA	ETT	Total
1	EEE	Design and Analysis of Algorithm	PC	30	-	30	2	1	50	50	50	150
2	HSS	Innovation and Entrepreneurship	HSS	30	-	-	2	-	50	-	50	100
3	EEE	Professional Elective – III Robotics Cyber Security	PE	30	-	30	2	1	50	50	50	150
4	EEE	Professional Elective – IV Advances in EV and BMS Cloud computing	PE	30	-	30	2	1	50	50	50	150
		Total		120	-	90	8	3	200	150	200	550

****Assessment Marks are valid only if Attendance criteria are met**

* CCA: Class Continuous Assessment

* LCA: Laboratory Continuous Assessment

Trimester Teaching Hours: 210 Hours

Total Credits Final Year BTech Trimester - X: 11

MIT WORLD PEACE UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

B. Tech. Electrical and Computer Engineering (Final Year) (Batch 2021 – 2025)
Trimester – XI

Sr. No.	Course Code	Name of Course	Type	Total Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Theory	Lab	CCA	LCA	ETT	Total
1	EEE	Internship or Capstone Project (<i>Anyone</i>)	PR	-	-	240	-	8	-	200	-	200
2	HSS	Professional Elective in Online Mode – II (OPE – I) Industrial IoT Business Analytics OR MOOC	OP	30	-	-	2	-	100	-	-	100
		Total		30	-	240	2	8	100	200	-	300

****Assessment Marks are valid only if Attendance criteria are met**

* CCA: Class Continuous Assessment

* LCA: Laboratory Continuous Assessment

Trimester Teaching Hours: 270 Hours

Total Credits Final Year BTech Trimester - XI: 10

MIT WORLD PEACE UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

B. Tech. Electrical and Computer Engineering (Final Year) (Batch 2021 – 2025)
Trimester – XII

Sr. No.	Course Code	Name of Course	Type	Total Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Theory	Lab	CCA	LCA	ETT	Total
1	EEE	<u>Capstone Project</u> or Internship (<i>The one which is not taken in Trimester XI.</i>)	PR	-	-	240	-	8	-	200	-	200
2	HSS	Professional Elective in Online Mode – II (OPE – II) Industrial Drives and Systems Blockchain OR MOOC	OP	30	-	-	2	-	100	-	-	100
		Total		30	-	240	2	8	100	200	-	300

****Assessment Marks are valid only if Attendance criteria are met**



Trimester Teaching Hours: 270 Hours

Total Credits Final Year BTech Trimester - XII: 10

* CCA: Class Continuous Assessment

* LCA: Laboratory Continuous Assessment

Total Final Year BTech Credits: 11 + 10 + 10 = 31

Total B. Tech Credits: 45+46 +46+31 =168 Credits