



# MCKV INSTITUTE OF ENGINEERING

NAAC Accredited "A" Grade Autonomous Institute under UGC Act 1956  
Approved by AICTE & affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal  
243 G.T. Road (N), Liluah, Howrah- 711204, West Bengal, India  
Ph: +91 33 26549315/17 Fax +91 33 26549318 Web: www.mckvie.edu.in

## Curriculum for Postgraduate Degree (M.Tech.) in Electronics and Communication Engineering (w.e.f. AY: 2020-21)

### Part I: Introduction, Theme & Category wise Credit Distribution

#### A. Definition of Credit:

Sl. No.	Description	Credit
1	1 Hr. Lecture (L) Per Week	1.0
2	1 Hr. Tutorial (T) Per Week	1.0
3	1 Hr. Practical/ Lab (P) Per Week	0.5
4	2 Hrs. Practical/ Lab (P) Per Week	1.0

#### B. Credits:

As per AICTE, a student covering 68 credits during 2 years of studies as per curriculum of the Institute will be eligible to get Post Graduate M.Tech. degree.

#### C. Category wise Credit Distribution:

Sl. No.	Category	Credit Allotted	Credit as per AICTE
1	Professional Core Courses	20	20
2	Professional Elective Courses relevant to chosen specialization/ branch	15	15
3	Open Elective Courses from other technical and / or emerging subjects	3	3
4	Project Work, Seminar and Internship in Industry or elsewhere	28	28
5	Mandatory Courses [Environmental Sciences, Induction Training, Indian Constitution, Essence of Indian Traditional Knowledge, Aptitude Skill]	2	2
Total		68	68

#### D. Course Code and Definition:

Sl. No.	Course Code	Definitions
1	L	Lecture
2	T	Tutorial
3	P	Practical
4	PC	Professional Core Courses
5	PE	Professional Elective Courses
6	OE	Open Elective Courses
7	MC	Mandatory Courses
8	PW	Project/ Internships/ Sessional



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## E. Courses in different Category:

Professional Core Courses							
Sl No.	Semester	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
<b>Theory</b>							
1	I	PC-MCE101	Advanced Communication Networks	3	0	0	3
2	I	PC-MCE102	Wireless and Mobile Communication	3	0	0	3
3	II	PC-MCE201	Antennas and Radiating Systems	3	0	0	3
4	II	PC-MCE202	Advanced Digital Signal Processing	3	0	0	3
<i>Total Theory</i>				<b>12</b>	<b>0</b>	<b>0</b>	<b>12</b>
<b>Practical/ Sessional</b>							
1	I	PC- MCE191	Advanced Communication Networks Lab	0	0	4	2
2	I	PC-MCE192	Wireless and Mobile Communication Lab	0	0	4	2
3	II	PC-MCE291	Antennas and Radiating Systems lab	0	0	4	2
4	II	PC-MCE292	Advanced Digital Signal Processing Lab	0	0	4	2
<i>Total Practical/ Sessional</i>				<b>0</b>	<b>0</b>	<b>16</b>	<b>8</b>
<b>Total</b>				<b>12</b>	<b>0</b>	<b>16</b>	<b>20</b>

Professional Elective Courses relevant to chosen specialization/ branch							
Sl No.	Semester	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
<b>Theory</b>							
1	I	PE-MCE101	Professional Elective-I	3	0	0	3
2	I	PE-MCE102	Professional Elective-II	3	0	0	3
3	II	PE-MCE201	Professional Elective-III	3	0	0	3
4	II	PE-MCE202	Professional Elective-IV	3	0	0	3
5	III	PE-MCE301	Professional Elective-V	3	0	0	3
<i>Total Theory</i>				<b>15</b>	<b>0</b>	<b>0</b>	<b>15</b>
<b>Practical/ Sessional</b>							
<i>Total Practical/ Sessional</i>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>				<b>15</b>	<b>0</b>	<b>0</b>	<b>15</b>



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Open Elective Courses from other technical and / or emerging subjects							
Sl No.	Semester	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
<b>Theory</b>							
1	III	OE-MCE301	Open Elective	3	0	0	3
<i>Total Theory</i>				<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b>Practical/ Sessional</b>							
<i>Total Practical/ Sessional</i>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>				<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>

Project Work, Seminar and Internship in Industry or elsewhere							
Sl No.	Semester	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
<b>Theory</b>							
<i>Total Theory</i>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Practical/ Sessional</b>							
1	I	PW-MCE171	Audit Course-I	2	0	0	0
2	II	PW-MCE271	Audit Course-II	2	0	0	0
3	II	PW-MCE281	Mini Project with Seminar	<b>0</b>	<b>0</b>	<b>4</b>	<b>2</b>
4	III	PW-MCE381	Dissertation –I	<b>0</b>	<b>0</b>	<b>20</b>	<b>10</b>
5	IV	PW-MCE481	Dissertation -II	<b>0</b>	<b>0</b>	<b>32</b>	<b>16</b>
<i>Total Practical/ Sessional</i>				<b>4</b>	<b>0</b>	<b>56</b>	<b>28</b>
<b>Total</b>				<b>4</b>	<b>0</b>	<b>56</b>	<b>28</b>

Mandatory Courses [Environmental Sciences, Induction Training, Indian Constitution, Essence of Indian Traditional Knowledge, Aptitude Skill]							
Sl No.	Semester	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
<b>Theory</b>							
1	I	MC-MCE171	Research Methodology and IPR	2	0	0	2
<i>Total Theory</i>				<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>
<b>Practical/ Sessional</b>							
<i>Total Practical/ Sessional</i>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>				<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>