



INFORMATION BROCHURE

FOR ADMISSION TO
M. TECH.

in

**CIVIL ENGINEERING
ELECTRONICS & COMMUNICATION ENGINEERING
COMPUTER SCIENCE & ENGINEERING
2017-18**

(This is supplementary to the B.E. Prospectus 2017-18)

মণিপুর বিশ্ববিদ্যালয়ৰ অধীনত
মণিপুর ইন্সটিটিউট অফ টেকনোলজী

MANIPUR INSTITUTE OF TECHNOLOGY

(A Constituent College of Manipur University)

TAKYELPAT, IMPHAL – 795 004



This information brochure, for admission to M. Tech. programme in Civil Engineering, Electronics & Communication Engineering and Computer Science & Engineering in Manipur Institute of Technology (MIT), Takyelpat, Imphal, is supplementary to the B.E. prospectus for the academic session 2017-18. Information regarding Governing Body, Infrastructures, Students' Discipline, Hostels etc. are as mentioned in the B.E. Prospectus.

The courses leading to M. Tech. Degree are open to candidates who have obtained the requisite qualification for admission.

The Institute shall have M.Tech. in the following departments:

- 1) Civil Engineering Department with specialization in
 - i. Structural Engineering
 - ii. Geotechnical Engineering
 - iii. Water Resources Engineering
 - iv. Transportation Engineering
- 2) Electronics & Communication Engineering Department with specialization in:
 - i. Microelectronics & VLSI
 - ii. Communication Engineering & Signal Processing
- 3) Computer Science and Engineering Department with specialization in :
 - i. Computer Science and Engineering

A student becomes eligible for the award of the M.Tech. Degree after fulfilling all the academic requirements as prescribed by the M. Tech. Ordinance & Regulations 2016.

TOTAL SEATS AVAILABLE:

The total numbers of seats available for admission to M.Tech Course in the Institute for the three department are:

- 1) Civil Engineering Department : **18 (Eighteen)**
- 2) Electronics & Communication Engineering Department : **10 (Ten)**
- 3) Computer Science and Engineering Department : **10 (Ten)**

The reservation of seats for SC/ST/OBC/PwD candidates are as per Government of India norms.

ADMISSION

The board of studies of the department (BSD) reviews details of the eligibility criteria (i.e. minimum qualifications and experience) for admission to various M. Tech. Programmes from time to time. Relaxation in academic qualification for reserved categories of students is as per Government of India guidelines.

A candidate shall be eligible if he/she has passed Bachelor's Degree with a minimum CPI of 6.5 or 60% of marks or first class (CPI of 0.5 or 5% of marks relaxation for SC/ST) in Civil Engg./E.C.E/Computer Sc. & Engineering or equivalent examination in any appropriate area recognised by Manipur University.

Preference will be given to a candidates having valid GATE score card.

A separate written test/interview will be conducted if sufficient candidates having valid GATE score card are not available.

Candidates falling under sponsored category should furnish sponsorship letter from the competent authority at the time of submission of the application.

NOTE: Being called for interview /counselling does not guarantee admission in MIT.

ACADEMIC CALENDAR

Each academic session is divided into two semesters of approximately eighteen weeks duration (with at least seventy working days For Classes in each semester): odd semester (August –December) and Even semester (February –June).

The BSD shall approve schedule of academic activities for a session, inclusive of dates for registration, mid-semester and end-semester examinations, inter–semesters breaks etc. laid down in the academic calendar for the session.

Website:www.mitimphal.in
e-mail: principal@mitimphal.in

FEE STRUCTURE (All Departments CE, ECE and CSE)

Fee Type	Fees (in Rs)		
	First Sem.	Odd Sem.	Even Sem.
Admission Fee	1,500.00	1,500.00	1,500.00
Tuition Fee	15,000.00	15,000.00	15,000.00
Library Fee	1000.00	1000.00	1000.00
Internal examination Fee	1,000.00	1,000.00	1,000.00
Development Fund	2,500.00	2,500.00	2,500.00
Laboratory /Workshop Fee	6,000.00	6,000.00	6,000.00
Student activity Fee	2000.00	2000.00	2000.00
Water and Electricity charges	1,300.00	1,300.00	1,300.00
Identity card Fee	100.00	100.00	
Magazine Fee	300.00	300.00	
University Enrolment Fee	100.00	100.00	
Students group insurance	230.00	230.00	
Sports and cultural Fee	3,000.00	3,000.00	
Caution Money (refundable)-one time	10,000.00		
Training and Placement charge –one time	1000.00		
University Registration Fee-one time	200.00		
University Registration form – one time	20.00		
Provisional certificate Fee –one time	100.00		
Postal charges –one time	100.00		
Medical fee	150.00		
TOTAL FEE (Rs)	45,600.00	34,030.00	30,300.00

Caution Money of Rs. 10,000/- is refundable if the candidate successfully completes the course. In any other cases the caution money shall be refundable after completion of 2 years from the date of admission.

DEPARTMENT OF CIVIL ENGINEERING

Faculty Profile:

Sl.No.	Name of Supervisor & Designation	Designation	Areas of Interest
1.	Dr. Th. Kulachandra Singh Ph.D	Professor	Geotechnical Engineering, Ground Improvement Techniques, Soil Investigation
2.	Dr. Thokchom Suresh, Ph.D	Associate Professor	Composite Materials, Concrete Technology, Concrete Structures, Earthquake Engineering, Geopolymer.
3.	Dr. Th. Kiranbala Devi, Ph.D	Assistant Professor(S-3)	Earthquake Engineering, Construction Management, Concrete Structures, Steel Structures, Confined Masonry
4.	Dr. Th. Somchand Singh, Ph.D	Assistant Professor	Ground Water Hydraulics, Soft Computing, GIS, Optimisation in Engineering, Hydraulics Structures, Hydrology
5.	Dr. Y. Arunkumar Singh, Ph.D	Assistant Professor	Flexible Pavement, Rigid Pavement, Concrete Block Pavement, Concrete Technology, Highway Maintenance
6.	Smt. Sangeeta Sh. M.Tech (Pursuing Ph.D. at Delhi Technical University)	Assistant Professor	Water Resources Engineering, Soil Cementation
7.	Dr.K. Rambha Devi Ph.D	Assistant Professor	Sub-Soil Investigation, Dynamic Properties of Soil, Ground Improvement, Engineering Properties of Clay
8.	Dr.N.Premananda Singh Ph.D	Assistant Professor	Air Pollution, Environmental Noise
9.	N.Sukumar Singh M.Tech (Pursuing Ph.D. at IIT Gauhati)	Assistant Professor	Structural Dynamics, Earthquake Engineering, Finite Element Methods
10.	Ms. Chitra Shijagurumayum, M.Tech (Pursuing Ph.D. at MIT Manipur University)	Guest Lecturer	Construction Engineering and Management, Concrete Technology
11.	Ms. S. Indiralaxmi Devi, M.Tech (Pursuing Ph.D. at MIT Manipur University)	Guest Lecturer	Earthquake Engineering, Structure Analysis, RCC Design

**CURRICULUM FOR M. TECH IN
CIVIL ENGINEERING
UNDER MANIPUR UNIVERSITY**

FIRST SEMESTER

Sl. No.	Subject Code	Subject details	Periods/ Week			Marks allotted				Credit hours
			L	T	P	PA*	CT	SE	Full Marks	
1.	PG/CE/T/ 111	Compulsory Subject Computer Application in Civil Engineering	3	1	0	20	10	70	100	4
2.	PG/CE/T/112	Core Subject-I Finite Element Analysis in Civil Engineering	3	1	0	20	10	70	100	4
3.	PG/CE/T/113A PG/CE/T/113B PG/CE/T/113C	Elective Subject- I (Interdisciplinary) Project Management Environmental Impact Assessment Industrial Management	3	1	0	20	10	70	100	4
4.	PG/CE/T/114A PG/CE/T/114B PG/CE/T/114C PG/CE/T/114D PG/CE/T/114E	Elective Subject- II (Departmental) Theory of Elasticity and Plasticity Geotechnical Exploration Advanced Hydrology Urban Transportation Systems Planning Advanced Structural Design	3	1	0	20	10	70	100	4
5.	PG/CE/T/115A PG/CE/T/115B PG/CE/T/115C PG/CE/T/115D	Elective Subject- III (Departmental) Structural Dynamics Soil Dynamics Dam Engineering Geometric Design of Transport Systems	3	1	0	20	10	70	100	4
6.	PG/CE/P/116	Practical -I	0	0	3	50	-	50	100	2
7.	PG/CE/P/117	Practical -II	0	0	3	50	-	50	100	2
8.	PG/CE/P/118	Seminar - I	0	0	4	50	-	-	50	2
Total			15	5	10	250	50	450	750	26

L – Lecture

PA – Progressive Assessment

*PA includes 5 marks for attendance.

T – Tutorial

CT – Class Test

P – Practical

SE – Semester Examination

**CURRICULUM FOR M. TECH IN
CIVIL ENGINEERING
UNDER MANIPUR UNIVERSITY**

SECOND SEMESTER

Sl. No.	Subject Code	Subject details	Periods/ Week			Marks allotted				Credit hours
			L	T	P	PA*	CT	SE	Full Marks	
1	PG/CE/T/211	Core Subject – II Advanced Soil Mechanics	3	1	0	20	10	70	100	4
2	PG/CE/T/212	Core Subject – III Optimization Techniques in Civil Engineering	3	1	0	20	10	70	100	4
3	PG/CE/T/213A PG/CE/T/213B PG/CE/T/213C PG/CE/T/213D PG/CE/T/213E	Elective Subject– IV (Departmental) Advanced Concrete Technology Rock Mechanics and Tunneling Ground Water Engineering Traffic Flow Modelling and Simulation Theory of Plates and Shells	3	1	0	20	10	70	100	4
4	PG/CE/T/214A PG/CE/T/214B PG/CE/T/214C PG/CE/T/214D	Elective Subject– V (Departmental) Earthquake Resistant Design of Structures Ground Improvement Techniques Advanced Wastewater Treatment Pavement Analysis and Design	3	1	0	20	10	70	100	4
5	PG/CE/T/215A PG/CE/T/215B PG/CE/T/215C PG/CE/T/215D	Elective Subject– VI (Departmental) Bridge Engineering Advanced Foundation Engineering Highway Construction Practices and Management Water Resources Systems Planning and Management	3	1	0	20	10	70	100	4
6	PG/CE/P/216	Practical –III	0	0	3	50	-	50	100	2
7	PG/CE/P/217	Term Paper Leading to Thesis	2	0	0	50	-	-	100	2
8	PG/CE/P/218	Seminar – II	0	0	4	50	-	-	50	2
Total			17	5	7	250	50	400	700	26

L – Lecture

PA – Progressive Assessment

***PA** includes 5 marks for attendance.

T– Tutorial

CT–Class Test

P – Practical

SE –Semester Examination

**CURRICULUM FOR M. TECH IN
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THIRD SEMESTER

Sl. No.	Subject Code	Subject details	Periods/ Week			Marks allotted				Credit hours
			L	T	P	PA*	CT	SE	Full Marks	
1	PG/CE/Th1/311	Thesis (Part I)	0	0	20	200	-	-	200	15
2.	PG/CE/S/312	Seminar – III	0	0	4	100	-	-	100	3
Total			0	0	24	500	-	-	300	18

L – Lecture

T – Tutorial

P – Practical

PA – Progressive Assessment

CT – Class Test

SE – Semester Examination

*PA includes 5 marks for attendance.

FOURTH SEMESTER

Sl. No.	Subject Code	Subject details	Periods/ Week			Marks allotted				Credit hours
			L	T	P	PA*	CT	SE	Full Marks	
1	PG/CE/Th2/411	Thesis (Part II)	0	0	20	200	-	100	300	16
2.	PG/CE/Th3/412	Seminar & Viva – Voce on Thesis	0	0	4	-	-	100	100	2
3.	PG/CE/S/412	Grand Viva	0	0	4	-	-	100	100	2
Total			0	0	28	200	-	300	500	20

L – Lecture

T – Tutorial

P – Practical

PA – Progressive Assessment

CT – Class Test

SE – Semester Examination

*PA includes 5 marks for attendance.

ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

Faculty Profile:

S. No	Name	Designation	Area of Research Interest
1	Dr. N.Basanta Singh, Ph.D	Associate Professor	Modelling and Simulation of advanced semiconductor devices (Bulk/SOI /SON MOSFET, Multigate FET, Nanowire and UTBSOI)
2	Romesh Laishram, M.E (Pursuing Ph.D. at Manipur University)	Asst. Prof. & Head	Communication & Signal Processing
3	Kh. Jolson Singh, M.E (Pursuing Ph.D. at Jadavpur University)	Asst. Prof.	Electron Device, Low Power VLSI, Semiconductor Physics, Renewable Energy, Antenna Modelling
4	Ms. Kh. Renuca, M.E (Pursuing Ph.D. at Manipur University)	Asst. Prof.	Microwave & Antenna
5	Ms. Ghaneshori Thingbajam, M.E	Asst. Prof.	Communication Systems
6	Ms. Sharmila Meinam, M.E	Asst. Prof.	Communication Systems
7	Ms. Balarampyari Devi, M.Tech.	Asst. Prof.	VLSI & Embedded System
8	Sinam Sarada, M.Tech	Guest Lecturer	Microwave
9	Dickson Warepam, M.Tech	Guest Lecturer	Microelectronics and Control System, VLSI System, Semiconductor Device,

Curriculum for M.Tech. in ELECTRONICS & COMMUNICATION ENGINEERING under Manipur University

First Semester

Sl. No.	Subject Code	Subject Details	Periods/ Week			Marks Allotted				Credit/ hours
			L	T	P	PA*	CT	SE	Full Marks	
1	PG/ECE 111	Digital Logic Design with HDL	3	1	0	20	10	70	100	4
2	PG/ECE 112	Digital Signal Processing	3	1	0	20	10	70	100	4
3	PG/ECE 113	Elective-I	3	1	0	20	10	70	100	4
4	PG/ECE 114	Elective-II	3	1	0	20	10	70	100	4
5	PG/ECE 115	Elective-III	3	1	0	20	10	70	100	4

6	PG/ECE 116P	Practical-I	0	0	3	50	-	50	100	2
7	PG/ECE 117P	Practical-II	0	0	3	50	-	50	100	2
8	PG/ECE 118P	Seminar	0	0	4	50	-	-	50	2
Total			15	5	10	250	50		450	26

*PA includes 5 marks for attendance

L-Lecture

T-tutorial

P-Practical

PA-progressive Assessment

CT- Class Test

SE- End Semester Examination

Second Semester

Sl. No.	Subject Code	Subject Details	Periods/ Week			Marks Allotted				Credit/ hours
			L	T	P	PA*	CT	SE	Full Marks	
1	PG/ECE 121	Embedded systems	3	1	0	20	10	70	100	4
2	PG/ECE 122	RF Engineering	3	1	0	20	10	70	100	4
3	PG/ECE 123	Elective-IV	3	1	0	20	10	70	100	4
4	PG/ECE 124	Elective-V	3	1	0	20	10	70	100	4
5	PG/ECE 125	Elective-VI	3	1	0	20	10	70	100	4
6	PG/ECE 126P	Practical-III	0	0	3	50	-	50	100	2
7	PG/ECE 127P	Term Paper Leading to Thesis	2	0	0	50	-	-	100	2
8	PG/ECE 128P	Seminar	0	0	4	50	-	-	50	2
Total			17	5	7	250	50	400	700	26

*PA includes 5 marks for attendance

L-Lecture

T-tutorial

P-Practical

PA-progressive Assessment

CT- Class Test

SE- End Semester Examination

Third Semester

Sl. No.	Subject Code	Subject Details	Periods/ Week			Marks Allotted				Credit/ hours
			L	T	P	PA*	CT	SE	Full Marks	
1	PG/ECE 231	Thesis Part-I	0	0	20	200	-	-	200	15
2	PG/ECE 232	Seminar	0	0	4	100	-	-	100	3
Total			0	0	24	300	-	-	300	18

*PA includes 5 marks for attendance

L-Lecture

T-tutorial

P-Practical

PA-progressive Assessment

CT- Class Test

SE- End Semester Examination

Fourth Semester

Sl. No.	Subject Code	Subject Details	Periods/ Week			Marks Allotted				Credit/ hours
			L	T	P	PA*	CT	SE	Full Marks	
1	PG/ECE 241	Thesis Part-II	0	0	20	200	-	100	300	16
2	PG/ECE 242	Seminar on Thesis	0	0	4	-	-	100	100	2
3	PG/ECE 243	Grand ViVa	0	0	4	-	-	100	100	2
Total			0	0	28	200	-	300	500	20

*PA includes 5 marks for attendance

L-Lecture

T-tutorial

P-Practical

PA-progressive Assessment

CT- Class Test

SE- End Semester Examination

COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

Faculty Profile:

SL	Name	Designation	Areas of Interest
1	Ms. Selina Khoirom M. Tech	Asst. Professor	OS, Cloud Computing, DMBS
2	T. Sonamani Singh M. Tech. (Pursuing Ph.D. at Assam University)	Asst. Professor	Wireless Sensor Network, Algorithms, Software Engineering
3	Th. Ibungomacha Singh M.E (Pursuing Ph.D. at Assam University)	Asst. Professor	Image Processing, Network Security
4	Sapam Jitu Singh M.E. (Pursuing Ph.D. at Assam University)	Asst. Professor	Robotics, AI, Soft Computing
5	Ranbir Soram M. Tech (Pursuing Ph.D. at Assam University)	Asst. Professor & Head	Software Engineering, Web-based Applications, Cryptography
6	Ms. Kanchan Keisham M. Tech	Guest Lecturer	DIP, Computer Networks
7	Rajeev Rajkumar M. Tech.	Guest Lecturer	Image Processing, Networking, Automata Theory, Project Management
8	Smt. P. Binodini Devi M.E	Guest Lecturer	Wireless Network, Computer Architecture

**Curriculum Structure for M. Tech in
COMPUTER SCIENCE & ENGINEERING UNDER MANIPUR UNIVERSITY**

First Semester

Sl	Subject Code	Subject	Hours/ Week	Evaluation Scheme					Credits
				Sessional			ESE	Total	
				L-T-P	PA*	CT			
1	PG/CS 111	Core I/Advanced Algorithms	3-1-0	20	10	30	70	100	4
2.	PG/CS 112	Core-II/ Advanced Computer Networks	3-1-0	20	10	30	70	100	4
3	PG/CS 113	Elective – I	3-1-0	20	10	30	70	100	4
4	PG/CS 114	Elective – II	3-1-0	20	10	30	70	100	4
5	PG/CS 115	Elective – III	3-1-0	20	10	30	70	100	4
6	PG/CS111P	Practical –I	0-0-3	50	-	50	50	100	2
7	PG/CSXXXP	Practical –II	0-0-3	50	-	50	50	100	2
8	PG/CS116	Seminar	0-0-4	50	-	50	-	50	2
Total			15-5-10	250	50	300	450	750	26

L-Lecture

T-Tutorial

P-Practical

PA-Progressive Assessment

CT-Class Test

ESE – End Semester Examination

***PA** includes 5 marks for attendance.

Second Semester

Sl	Subject Code	Subject	Hours/ Week	Evaluation Scheme					Credits
				Sessional			ESE	Total	
				L-T-P	PA	CT			
1	PG/CS121	Core-III/ Software Engineering	3-1-0	20	10	30	70	100	4
2.	PG/CS122	Core-IV/ Soft Computing	3-1-0	20	10	30	70	100	4
3	PG/CS123	Elective – IV	3-1-0	20	10	30	70	100	4
4	PG/CS 124	Elective – V	3-1-0	20	10	30	70	100	4
5	PG/CS125	Elective – VI	3-1-0	20	10	30	70	100	4
6	PG/CSXXXP	Practical –III	0-0-3	50	-	50	50	100	2
7	PG/CS126	Term Paper leading to Thesis	2-0-0	50	-	50	-	50	2
8	PG/CS127	Seminar	0-0-4	50	-	50	-	50	2
Total			17-5-7	250	50	300	400	700	26

L-Lecture T-Tutorial P-Practical PA-Progressive Assessment CT-Class Test
 ESE – End Semester Examination *PA includes 5 marks for attendance.

Third Semester

Sl	Subject Code	Subject	Hours/ Week	Evaluation Scheme					Credits
				Sessional			ESE	Total	
				L-T-P	PA	CT			
1	PG/CS231	Thesis Part I	0-0-20	200	-	200	-	200	15
2.	PG/CS232	Seminar	0-0-4	100	-	100	-	100	3
		Total	0-0-24	300	-	300	-	300	18

L-Lecture T-Tutorial P-Practical PA-Progressive Assessment CT-Class Test
 ESE – End Semester Examination *PA includes 5 marks for attendance.

Fourth Semester

Sl	Subject Code	Subject	Hours/ Week	Evaluation Scheme					Credits
				Sessional			ESE	Total	
				L-T-P	PA	CT			
1	PG/CS241	Thesis Part II	0-0-20	200	-	200	100	300	16
2.	PG/CS242	Seminar on Thesis	0-0-4	-	-	-	100	100	2
3.	PG/CS243	Grand Viva	0-0-4	-	-	-	100	100	2
Total			0-0-28	200	-	200	300	500	20

L-Lecture T-Tutorial P-Practical PA-Progressive Assessment CT-Class Test
 ESE – End Semester Examination *PA includes 5 marks for attendance.

Important Dates

- Issue of applications form and prospectus - **15/06/2017**
- Last date of submission of application form - **07/07/2017**
- Counselling of candidates having valid GATE score card - **12/07/2017**
- Written test/ interview for non –GATE and sponsored candidate - **17/07/2017**
- Last date of admission - **31/07/2017**
- Commencement of Session - **01/08/2017**

Check List

1.	2 recent passport size photographs of the candidates.	
2.	Attested copy of the HSLC certificate or admit card as proof of age	
3.	Attested copies of the Certificates of the last qualifying Exam	
4.	Attested copies of the Marksheet of the last qualifying Exam.	
5.	Attested copy of study discontinuation/study gap certificate (if possible) from competent authority.	
6.	Attested copy of the supporting documents for ST/SC /OBC/PwD	
7.	Sponsorship letter (for candidates falling under sponsored category)	

FORM – I
SPONSORSHIP LETTER

(This should be typed on the letter head of the sponsoring organisation)

Reference No. _____

Date _____

To
The Principal
Manipur Institute of Technology,
Takyelpat, Imphal.

Sub : Sponsoring for M.Tech. Course.

Dear Sir,

We have no objection if Mr/Mrs.....an employee in our organisation, is admitted to M.Tech. Programme inat your Institute as a full-time student.

We shall relieve him/her of his/her duties in the organisation during the two years of the M.Tech. programme.

Sponsoring Authority
Signature & Seal