

# **PANIMALAR INSTITUTE OF TECHNOLOGY**

## **VISION**

An Institution of Excellence by imparting quality education and serve as a perennial source of technical manpower with dynamic professionalism and entrepreneurship having social responsibility for the progress of the society and nation.

## **MISSION**

Panimalar Institute of Technology will strive to emerge as an Institution of Excellence in our country by

- Providing state-of-the-art infrastructure facilities for designing and developing solutions for engineering problems.
- Imparting quality education and training through qualified, experienced and committed members of the faculty.
- Inculcating high moral values in the minds of the students and transforming them into well-rounded personality.
- Establishing Industry Institute interaction to make students ready for the industrial environment.
- Promoting research based projects/activities in the emerging areas of Engineering & Technology.

# **PANIMALAR INSTITUTE OF TECHNOLOGY**

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## **VISION**

To evolve as a Centre of Excellence in Computer Science and Engineering to compete with latest trends and also persistently strive to inculcate the requisite skills in research, innovation and entrepreneurship, making the budding engineers as competent professionals to take up any global challenge.

## **MISSION**

- To produce high-quality Computer Engineers with employable skills and professional standards by imparting theoretical and practical training.
- To collaborate with industry in pursuit of education and research, leading to the development of commercially-viable technologies.
- To develop an overall personality of the students by encouraging them to participate in co-curricular and extra-curricular activities.
- To train teachers capable of inspiring the next generation of engineers and researchers.
- To develop research interest among the student community.

## **PROGRAMME EDUCATIONAL OBJECTIVES (PEOS):**

### **PEO-I:**

To excel in Computer Science and Engineering program to pursue their higher studies or succeed in their profession through quality education.

### **PEO-II:**

To acquire knowledge in the latest technologies and innovations and an ability to identify, analyse and solve problems in computer engineering.

### **PEO-III:**

To become recognized professional engineers with demonstrated commitment to life-long learning and continuous self-improvement in order to respond to the rapid pace of change in Computer Science Engineering.

### **PEO IV:**

To be capable of modelling, designing, implementing and verifying a computing system to meet specified requirements for the benefit of society.

### **PEO-V:**

To possess critical thinking, communication skills, teamwork, leadership skills and ethical behaviour necessary to function productively and professionally.

# PANIMALAR INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Calendar 2016-2017

JUNE - 2016			Department Events
Date	Working Days	Remarks	
1	Wed		
2	Thu		
3	Fri		
4	Sat	Holiday	
5	Sun	Holiday	
6	Mon		
7	Tue		
8	Wed		
9	Thu		
10	Fri		
11	Sat	Holiday	
12	Sun	Holiday	
13	Mon		
14	Tue		
15	Wed		
16	Thu		
17	Fri		
18	Sat	Holiday	
19	Sun	Holiday	
20	Mon		
21	Tue		
22	Wed		
23	Thu	Placement training Certification Course	
24	Fri		
25	Sat	Holiday	
26	Sun	Holiday	
27	Mon		
28	Tue		
29	Wed		
30	Thu		

<b>JULY - 2016</b>			<b>Department Events</b>
<b>Date</b>	<b>Working Days</b>	<b>Remarks</b>	
1	Fri		
2	Sat	<b>Holiday</b>	
3	Sun	<b>Holiday</b>	
4	Mon	College reopens for II/III/IV Year B.E/B.Tech	
5	Tue		
6	Wed	<b>Ramzan Holiday</b>	
7	Thu		
8	Fri		
9	Sat	<b>Holiday</b>	
10	Sun	<b>Holiday</b>	
11	Mon		
12	Tue		<b>Short - Term Course Industrial Visit</b>
13	Wed		<b>Industrial Visit</b>
14	Thu		
15	Fri		<b>Industrial Visit</b>
16	Sat	<b>Holiday</b>	
17	Sun	<b>Holiday</b>	
18	Mon		<b>Industrial Visit Guest Lecture</b>
19	Tue		<b>Industrial Visit</b>
20	Wed		<b>Industrial Visit</b>
21	Thu		<b>Industrial Visit</b>
22	Fri		<b>Industrial Visit</b>
23	Sat	<b>Holiday</b>	
24	Sun	<b>Holiday</b>	
25	Mon		
26	Tue		
27	Wed		<b>Technical Quiz</b>
28	Thu		
29	Fri		
30	Sat	<b>Holiday</b>	
31	Sun	<b>Holiday</b>	

<b>AUGUST - 2016</b>			<b>Department Events</b>
<b>Date</b>	<b>Working Days</b>	<b>Remarks</b>	
1	Mon		
2	Tue	II Unit Completion for II/III & IV B.E/B.Tech	
3	Wed		
4	Thu		
5	Fri		
6	Sat	<b>Holiday</b>	
7	Sun	<b>Holiday</b>	
8	Mon	I Internal Assessment for II/III & IV B.E/B.Tech	
9	Tue		
10	Wed		
11	Thu		
12	Fri		
13	Sat	<b>Holiday</b>	
14	Sun	<b>Holiday</b>	
15	Mon	<b>Independence Day</b>	
16	Tue	I Unit Completion for I B.E/B.Tech	
17	Wed		
18	Thu		
19	Fri		
20	Sat	<b>Holiday</b>	
21	Sun	<b>Holiday</b>	
22	Mon		
23	Tue		
24	Wed	III Unit Completion for II/III & IV B.E/B.Tech	
25	Thu		
26	Fri		
27	Sat	<b>Holiday</b>	
28	Sun	<b>Holiday</b>	
29	Mon	I Internal Assessment for I B.E/B.Tech	<b>Guest Lecture</b>
30	Tue		
31	Wed		

SEPTEMBER - 2016			Department Events
Date	Working Days	Remarks	
1	Thu		
2	Fri		<b>Guest Lecture</b>
3	Sat	<b>Holiday</b>	
4	Sun	<b>Holiday</b>	
5	Mon	<b>Vinayakar Chaturthi</b>	
6	Tue		
7	Wed		
8	Thu		
9	Fri	IV Unit Completion for II/III & IV B.E/B.Tech	
10	Sat	<b>Holiday</b>	
11	Sun	<b>Holiday</b>	
12	Mon	II Internal Assessment for II/III & IV B.E/B.Tech	
13	Tue	<b>Bakrid Holiday</b>	
14	Wed		
15	Thu		
16	Fri		
17	Sat	<b>Holiday</b>	
18	Sun	<b>Holiday</b>	
19	Mon		
20	Tue		
21	Wed		
22	Thu		
23	Fri		
24	Sat	<b>Holiday</b>	
25	Sun	<b>Holiday</b>	
26	Mon		
27	Tue		
28	Wed		
29	Thu		
30	Fri	V Unit Completion for II/III & IV B.E/B.Tech	

<b>OCTOBER - 2016</b>			<b>Department Events</b>
<b>Date</b>	<b>Working Days</b>	<b>Remarks</b>	
1	Sat	<b>Holiday</b>	
2	Sun	<b>Gandhi Jayanthi Holiday</b>	
3	Mon	University Practical Examination for II/III & IV II Internal Assessment for I B.E/B.Tech	
4	Tue		
5	Wed		
6	Thu		
7	Fri		
8	Sat	<b>Pooja Holidays</b>	
9	Sun	<b>Holiday</b>	
10	Mon		
11	Tue		
12	Wed	<b>Muharram</b>	
13	Thu		
14	Fri		
15	Sat	<b>Holiday</b>	
16	Sun	<b>Holiday</b>	
17	Mon	III Internal Assessment for II/III & IV B.E/B.Tech	
18	Tue		
19	Wed		
20	Thu		
21	Fri		
22	Sat	<b>Holiday</b>	
23	Sun	<b>Holiday</b>	
24	Mon	V Unit Completion for I B.E/B.Tech	
25	Tue	<b>Revision</b>	
26	Wed	<b>Last Working Day</b>	
27	Thu		
28	Fri		
29	Sat	<b>Holiday</b>	
30	Sun	<b>Holiday</b>	
31	Mon	III Internal Assessment for I B.E/B.Tech	



NOVEMBER - 2016			Department Events
Date	Working Days	Remarks	
1	Tue		
2	Wed	University Theory Examination for II/III & IV	
3	Thu		
4	Fri		
5	Sat	<b>Holiday</b>	
6	Sun	<b>Holiday</b>	
7	Mon	University Practical Exam for I B.E/B.Tech	
8	Tue		
9	Wed		
10	Thu		
11	Fri		
12	Sat	<b>Holiday</b>	
13	Sun	<b>Holiday</b>	
14	Mon		
15	Tue		
16	Wed		
17	Thu		
18	Fri		
19	Sat	<b>Holiday</b>	
20	Sun	<b>Holiday</b>	
21	Mon		
22	Tue		
23	Wed		
24	Thu		
25	Fri		
26	Sat	<b>Holiday</b>	
27	Sun	<b>Holiday</b>	
28	Mon	University Theory Exam for I B.E/B.Tech	
29	Tue		
30	Wed		

DECEMBER - 2016			DepartmentEvents
Date	Working Days	Remarks	
1	Thu		
2	Fri		
3	Sat	Holiday	
4	Sun	Holiday	
5	Mon		
6	Tue		
7	Wed		
8	Thu		
9	Fri		
10	Sat	Holiday	
11	Sun	Holiday	
12	Mon		
13	Tue		
14	Wed		
15	Thu		
16	Fri		
17	Sat	Holiday	
18	Sun	Holiday	
19	Mon		
20	Tue		Workshop
21	Wed		
22	Thu		
23	Fri		
24	Sat	Holiday	
25	Sun	Holiday	
26	Mon		
27	Tue		
28	Wed		
29	Thu		
30	Fri		
31	Sat	Holiday	

<b>JANUARY - 2017</b>			<b>Department Events</b>
<b>Date</b>	<b>Working Days</b>	<b>Remarks</b>	
1	Sun	Holiday	
2	Mon		
3	Tue		
4	Wed	College Reopens for II,III & IV B.E/B.Tech	
5	Thu		
6	Fri		
7	Sat	Holiday	
8	Sun	Holiday	
9	Mon		
10	Tue		
11	Wed		
12	Thu		
13	Fri	Bhogi	
14	Sat	Pongal	
15	Sun	Uzhavar Thirunaal	
16	Mon	Holiday	
17	Tue		
18	Wed	I unit Completion for I/II/III/IV Yr B.E/B.Tech	
19	Thu		
20	Fri		
21	Sat	Holiday	
22	Sun	Holiday	
23	Mon		
24	Tue		<b>Application Development Contest</b>
25	Wed		
26	Thu	Republic Day	
27	Fri		
28	Sat	Holiday	
29	Sun	Holiday	
30	Mon	I Internal Assessment for I/II/III/IV B.E/B.Tech	
31	Tue		

<b>FEBRUARY - 2017</b>			<b>Department Events</b>
<b>Date</b>	<b>Working Days</b>	<b>Remarks</b>	
1	Wed		
2	Thu		
3	Fri		
4	Sat	<b>Holiday</b>	
5	Sun	<b>Holiday</b>	
6	Mon		
7	Tue		<b>Short Term Course Industrial Visit</b>
8	Wed		
9	Thu		<b>Industrial Visit</b>
10	Fri	II unit Completion for I/II/III/IV Yr B.E/B.Tech	<b>Industrial Visit</b>
11	Sat	<b>Holiday</b>	<b>Software Contest</b>
12	Sun	<b>Holiday</b>	
13	Mon		
14	Tue		
15	Wed		
16	Thu		
17	Fri		
18	Sat	<b>Holiday</b>	
19	Sun	<b>Holiday</b>	
20	Mon		
21	Tue		
22	Wed		
23	Thu		
24	Fri	III unit Completion for I/II/III/IV Yr B.E/B.Tech	
25	Sat	<b>Holiday</b>	<b>PRAYUDH 2017 Workshop</b>
26	Sun	<b>Holiday</b>	
27	Mon		
28	Tue		

<b>MARCH - 2017</b>			<b>Department Events</b>
<b>Date</b>	<b>Working Days</b>	<b>Remarks</b>	
1	Wed		
2	Thu		
3	Fri		
4	Sat	<b>Holiday</b>	
5	Sun	<b>Holiday</b>	
6	Mon	II Internal Assessment for I/ II/III/IV B.E/B.Tech	
7	Tue		
8	Wed		
9	Thu		
10	Fri		<b>Guest Lecture</b>
11	Sat	<b>Holiday</b>	
12	Sun	<b>Holiday</b>	
13	Mon		
14	Tue		
15	Wed		
16	Thu	IV Unit Completion for I/II/III/IV B.E/B.Tech	
17	Fri		<b>Guest Lecture</b>
18	Sat	<b>Holiday</b>	
19	Sun	<b>Holiday</b>	
20	Mon		
21	Tue		
22	Wed		<b>Guest Lecture</b>
23	Thu		
24	Fri		
25	Sat	<b>Holiday</b>	
26	Sun	<b>Holiday</b>	
27	Mon		
28	Tue		
29	Wed	V Unit Completion for I/II/III/IV B.E/B.Tech	
30	Thu	Revision	
31	Fri		

<b>APRIL - 2017</b>			<b>Department Events</b>
<b>Date</b>	<b>Working Days</b>	<b>Remarks</b>	
1	Sat	Holiday	
2	Sun	Holiday	
3	Mon	III Internal Assessment for II/III B.E/B.Tech	
4	Tue		<b>Project Expo</b>
5	Wed		
6	Thu		
7	Fri		
8	Sat	Last Working day for II/III B.E/B.Tech	
9	Sun	Holiday	
10	Mon	University Practical Exam for II/III/IV B.E/B.Tech	
11	Tue		
12	Wed		
13	Thu		
14	Fri	<b>Tamil New Year</b>	
15	Sat	Holiday	
16	Sun	Holiday	
17	Mon		
18	Tue		
19	Wed		
20	Thu		
21	Fri		
22	Sat	Holiday	
23	Sun	Holiday	
24	Mon		
25	Tue		
26	Wed	University Theory Exam for I/II/III B.E/B.Tech	
27	Thu		
28	Fri		
29	Sat	Holiday	
30	Sun	Holiday	

<b>MAY - 2017</b>			<b>Department Events</b>
<b>Date</b>	<b>Working Days</b>	<b>Remarks</b>	
1	Mon	<b>May Day</b>	
2	Tue		
3	Wed		
4	Thu		
5	Fri		
6	<b>Sat</b>	<b>Holiday</b>	
7	<b>Sun</b>	<b>Holiday</b>	
8	Mon		
9	Tue		
10	Wed		
11	Thu		
12	Fri		
13	<b>Sat</b>	<b>Holiday</b>	
14	<b>Sun</b>	<b>Holiday</b>	
15	Mon	<b>NCIETET 2017</b>	
16	Tue		
17	Wed		
18	Thu		
19	Fri		
20	<b>Sat</b>	<b>Holiday</b>	
21	<b>Sun</b>	<b>Holiday</b>	
22	Mon		
23	Tue		
24	Wed		
25	Thu		
26	Fri		
27	<b>Sat</b>		
28	<b>Sun</b>	<b>Holiday</b>	
29	Mon	<b>Holiday</b>	
30	Tue		
31	Wed		

JUNE - 2017			Department Events
Date	Working Days	Remarks	
1	Thu		
2	Fri		
3	Sat	Holiday	
4	Sun	Holiday	
5	Mon		
6	Tue		
7	Wed		
8	Thu		
9	Fri		
10	Sat	Holiday	
11	Sun	Holiday	
12	Mon		
13	Tue		
14	Wed		
15	Thu		
16	Fri		
17	Sat	Holiday	
18	Sun	Holiday	
19	Mon		
20	Tue		
21	Wed		
22	Thu		
23	Fri		
24	Sat	Holiday	
25	Sun	Holiday	
26	Mon		
27	Tue		
28	Wed		
29	Thu		
30	Fri		

➔ Please Note: The Department Events have been Tentatively Scheduled



# ANNA UNIVERSITY, CHENNAI

Affiliated Institutions

Regulation 2013 - Syllabus

## SEMESTER I

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS6151	Technical English – I	3	1	0	4
2.	MA6151	Mathematics – I	3	1	0	4
3.	PH6151	Engineering Physics – I	3	0	0	3
4.	CY6151	Engineering Chemistry – I	3	0	0	3
5.	GE6151	Computer Programming	3	0	0	3
6.	GE6152	Engineering Graphics	2	0	3	4
<b>PRACTICALS</b>						
7.	GE6161	Computer Practices Laboratory	0	0	3	2
8.	GE6162	Engineering Practices Laboratory	0	0	3	2
9.	GE6163	Physics and Chemistry Laboratory - I	0	0	2	1
<b>TOTAL</b>			<b>17</b>	<b>2</b>	<b>11</b>	<b>26</b>

## SEMESTER II

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS6251	Technical English – II	3	1	0	4
2.	MA6251	Mathematics – II	3	1	0	4
3.	PH6251	Engineering Physics – II	3	0	0	3
4.	CY6251	Engineering Chemistry – II	3	0	0	3
5.	CS6201	Digital Principles and System Design	3	0	0	3
6.	CS6202	Programming and Data Structures I	3	0	0	3
<b>PRACTICALS</b>						
7.	GE6262	Physics and Chemistry Laboratory - II	0	0	2	1
8.	CS6211	Digital Laboratory	0	0	3	2
9.	CS6212	Programming and Data Structures Laboratory I	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>2</b>	<b>8</b>	<b>25</b>

**SEMESTER III**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6351	Transforms and Partial Differential Equations	3	1	0	4
2.	CS6301	Programming and Data Structure II	3	0	0	3
3.	CS6302	Database Management Systems	3	0	0	3
4.	CS6303	Computer Architecture	3	0	0	3
5.	CS6304	Analog and Digital Communication	3	0	0	3
6.	GE6351	Environmental Science and Engineering	3	0	0	3
<b>PRACTICAL</b>						
7.	CS6311	Programming and Data Structure Laboratory II	0	0	3	2
8.	CS6312	Database Management Systems Laboratory	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>6</b>	<b>23</b>

**SEMESTER IV**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6453	Probability and Queueing Theory	3	1	0	4
2.	CS6551	Computer Networks	3	0	0	3
3.	CS6401	Operating Systems	3	0	0	3
4.	CS6402	Design and Analysis of Algorithms	3	0	0	3
5.	EC6504	Microprocessor and Microcontroller	3	0	0	3
6.	CS6403	Software Engineering	3	0	0	3
<b>PRACTICAL</b>						
7.	CS6411	Networks Laboratory	0	0	3	2
8.	CS6412	Microprocessor and Microcontroller Laboratory	0	0	3	2
9.	CS6413	Operating Systems Laboratory	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>9</b>	<b>25</b>

**SEMESTER V**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6566	Discrete Mathematics	3	1	0	4
2.	CS6501	Internet Programming	3	1	0	4
3.	CS6502	Object Oriented Analysis and Design	3	0	0	3
4.	CS6503	Theory of Computation	3	0	0	3
5.	CS6504	Computer Graphics	3	0	0	3
<b>PRACTICAL</b>						
6.	CS6511	Case Tools Laboratory	0	0	3	2
7.	CS6512	Internet Programming Laboratory	0	0	3	2
8.	CS6513	Computer Graphics Laboratory	0	0	3	2
<b>TOTAL</b>			<b>15</b>	<b>2</b>	<b>9</b>	<b>23</b>

**SEMESTER VI**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	CS6601	Distributed Systems	3	0	0	3
2.	IT6601	Mobile Computing	3	0	0	3
3.	CS6660	Compiler Design	3	0	0	3
4.	IT6502	Digital Signal Processing	3	1	0	4
5.	CS6659	Artificial Intelligence	3	0	0	3
6.		Elective I	3	0	0	3
<b>PRACTICAL</b>						
7.	CS6611	Mobile Application Development Laboratory	0	0	3	2
8.	CS6612	Compiler Laboratory	0	0	3	2
9.	GE6674	Communication and Soft Skills - Laboratory Based	0	0	4	2
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>10</b>	<b>25</b>

**SEMESTER VII**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	CS6701	Cryptography and Network Security	3	0	0	3
2.	CS6702	Graph Theory and Applications	3	0	0	3
3.	CS6703	Grid and Cloud Computing	3	0	0	3
4.	CS6704	Resource Management Techniques	3	0	0	3
5.		Elective II	3	0	0	3
6.		Elective III	3	0	0	3
<b>PRACTICAL</b>						
7.	CS6711	Security Laboratory	0	0	3	2
8.	CS6712	Grid and Cloud Computing Laboratory	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>0</b>	<b>6</b>	<b>22</b>

**SEMESTER VIII**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	CS6801	Multi – Core Architectures and Programming	3	0	0	3
2.		Elective IV	3	0	0	3
3.		Elective V	3	0	0	3
<b>PRACTICAL</b>						
4.	CS6811	Project Work	0	0	12	6
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>

**TOTAL NO. OF CREDITS: 184****LIST OF ELECTIVES****SEMESTER VI – Elective I**

S.NO.	CODE NO.	COURSE TITLE	L	T	P	C
1.	CS6001	C# and .Net programming	3	0	0	3
2.	GE6757	Total Quality Management	3	0	0	3
3.	IT6702	Data Warehousing and Data Mining	3	0	0	3
4.	CS6002	Network Analysis and Management	3	0	0	3
5.	IT6004	Software Testing	3	0	0	3

**SEMESTER VII – Elective II**

<b>S.NO.</b>	<b>CODE NO.</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
6.	CS6003	Ad hoc and Sensor Networks	3	0	0	3
7.	CS6004	Cyber Forensics	3	0	0	3
8.	CS6005	Advanced Database Systems	3	0	0	3
9.	BM6005	Bio Informatics	3	0	0	3
10.	IT6801	Service Oriented Architecture	3	0	0	3

**SEMESTER VII – Elective III**

<b>S.NO</b>	<b>CODE NO.</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
11.	IT6005	Digital Image Processing	3	0	0	3
12.	EC6703	Embedded and Real Time Systems	3	0	0	3
13.	CS6006	Game Programming	3	0	0	3
14.	CS6007	Information Retrieval	3	0	0	3
15.	IT6006	Data Analytics	3	0	0	3

**SEMESTER VIII – Elective IV**

<b>S.NO.</b>	<b>CODE NO.</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
16.	CS6008	Human Computer Interaction	3	0	0	3
17.	CS6009	Nano Computing	3	0	0	3
18.	IT6011	Knowledge Management	3	0	0	3
19.	CS6010	Social Network Analysis	3	0	0	3

**SEMESTER VIII – Elective V**

<b>S.NO.</b>	<b>CODE NO.</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
20.	MG6088	Software Project Management	3	0	0	3
21.	GE6075	Professional Ethics in Engineering	3	0	0	3
22.	CS6011	Natural Language Processing	3	0	0	3
23.	CS6012	Soft Computing	3	0	0	3