



# E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM – 611 002. TAMILNADU, INDIA

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

(Accredited by NAAC with 'A' Grade and NBA)


Email: principal@egspec.org website: www.egspec.org Ph: 04365-251112

## E.G.S.PILLAY ENGINEERING COLLEGE(AUTONOMOUS),NAGAPATTINAM

### DEPARTMENT OF INFORMATION TECHNOLOGY

#### 1.1.3 Average Percentage of courses having focus on employability /entrepreneurship/skill development offered by the institution during the last five years

B.Tech -Information Technology						
List of New course Introduced 2021-2022						
S.NO	Course Code	Name of the Course	Activities /Content with direct bearing on Employability	Activities /Content with direct bearing on Entrepreneurship	Activities /Content with direct bearing on Skill development	Year of introductions (during the last five years)
1	1901MA102	Engineering Mathematics – i (calculus and linear algebra)			✓	2019-2020
2	1901CH101	Applied Chemistry in Informatics			✓	2019-2020
3	1901GEX03	Programming for problem solving	✓		✓	2019-2020
4	1901ENX01	English for Engineers			✓	2019-2020
5	1901GEX52	Computer Programming Lab			✓	2019-2020
6	1901GE151	Engineering Intelligence 1			✓	2019-2020
7	1901CHX51	Engineering Chemistry Lab			✓	2019-2020
8	1901HSX51	Communication skills lab			✓	2019-2020
9	1901GEX01	Basic Electrical and Electronics Engineering	✓			2019-2020
10	1901GEX02	Engineering Graphics			✓	2019-2020
11	1901MA202	Engineering Mathematics –II			✓	2019-2020
12	1901PH201	Physics for Information Science			✓	2019-2020
13	1901GE252	Engineering Intelligence II			✓	2019-2020
14	1901GE201	Engineering			✓	2019-2020

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15	1901GE254	Exploration Computer Hardware and IT Essentials Lab	✓			2019-2020
16	1901GEX51	CAD Lab	✓			2019-2020
17	1901PHX51	Engineering Physics Lab			✓	2019-2020
18	1901GEX53	Basic Electrical and Electronics Engineering Lab			✓	2019-2020
19	1902MA302	Engineering Mathematics III((Queuing model and network model)			✓	2020-2021
20	1902IT301	Data Structures and Algorithms	✓			2020-2021
21	1902IT303	Computer Organization and Architecture			✓	2020-2021
22	1902IT303	Digital Principles and Design			✓	2020-2021
23	1902IT304	Problem solving using Python	✓			2020-2021
24	1901GEX04	Biology for Engineers	✓			2020-2021
25	1902IT351	Data Structures and Algorithms Lab			✓	2020-2021
26	1902IT353	Python Programming Lab			✓	2020-2021
27	1902IT352	Digital Principles and Design Lab			✓	2020-2021
28	1904GE351	Life Skills: Verbal Ability			✓	2020-2021
29	1902MCX02	Constitution of India	✓			2020-2021
30	1902IT401	Database Management Systems	✓			2020-2021
31	1902IT402	Java Programming	✓			2020-2021
32	1902IT403	Operating Systems	✓			2020-2021
33	1902IT404	Software Engineering and	✓			2020-2021

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		Project Management				
34	1902IT405	Computer Networks	✓			2020-2021
35	1902IT406	Principles of Communication	✓			2020-2021
36	1902IT451	Database Management Systems Lab	✓		✓	2020-2021
37	1902IT452	Java Programming Lab	✓		✓	2020-2021
38	1902IT453	Operating Systems Lab	✓		✓	2020-2021
39	1901MCX01	Environmental Science	✓			2020-2021
40	1904GE451	Life Skills: Verbal Reasoning			✓	2020-2021
41	1902IT501	Object Oriented Analysis and Design	✓			2020-2021
42	1902IT502	Web Programming	✓			2020-2021
43	1902IT503	Security in Computing	✓			2020-2021
44	1902IT504	Internet of Things	✓			2020-2021
45	1901MGX01	Total Quality Management	✓	✓	✓	2020-2021
46	1903IT001	Software Testing Methods and Tools	✓	✓		2020-2021
47	1904IT551	Case Tools (Mini Project I)	✓	✓	✓	2020-2021
48	1902IT551	Web Programming Lab	✓	✓	✓	2020-2021
49	1904GE551	Life Skills: Aptitude I			✓	2020-2021
50	1904IT552	Startup Opportunities for IT Engineers		✓		2020-2021
51	1902MCX03	Essence of Indian Traditional Knowledge	✓			2020-2021
52	1902IT601	Artificial Intelligence	✓			2020-2021

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53	1902IT602	Mobile Computing	✓			2020-2021
54	1902IT603	Data Warehousing and Data Mining	✓			2020-2021
55	1903IT006	Multicore Architecture	✓			2020-2021
56	1901HS003	Startup Entrepreneurship		✓		2020-2021
57	1904IT651	Mobile Application Development (Mini Project II)	✓	✓	✓	2020-2021
58	1904GE651	Life Skills: Aptitude II& GD			✓	2020-2021
59	1904IT652	Industrial Visit Presentation	✓	✓	✓	2020-2021
60	1701MGX01	Professional Ethics			✓	2018-2019
61	1702IT701	Data Analytics	✓	✓		2018-2019
62	1702IT702	Security in Computing	✓	✓		2018-2019
63	1702IT015	Information Management	✓			2018-2019
64	1704GE751	Life Skills: Competitive Exam Preparation			✓	2018-2019
65	1704IT751	Software Development (Mini Project III)			✓	2018-2019
66	1704IT752	In Plant / Internship Training Presentation			✓	2018-2019
67	1703IT019	Cyber Forensics	✓			2018-2019
68	1704IT851	Project Work	✓	✓	✓	2018-2019
69	1703IT027	Deep Learning	✓			2018-2019
70	1703IT025	Software Quality Assurance	✓			2018-2019

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B.Tech -Information Technology					
List of New course Introduced 2020-2021					
S.NO	Course Code	Name of the Course	Activities /Content	Activities /Content with	Year of introductions

E.G.S. Pillay Engineering College  
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			with direct bearing on Employability	direct bearing on Entrepreneurship	direct bearing on Skill development	(during the last five years)
1	1901MA102	Engineering Mathematics – i (calculus and linear algebra)			✓	2019-2020
2	1901CH101	Applied Chemistry in Informatics			✓	2019-2020
3	1901GEX03	Programming for problem solving	✓		✓	2019-2020
4	1901ENX01	English for Engineers			✓	2019-2020
5	1901GEX52	Computer Programming Lab			✓	2019-2020
6	1901GE151	Engineering Intelligence 1			✓	2019-2020
7	1901CHX51	Engineering Chemistry Lab			✓	2019-2020
8	1901HSX51	Communication skills lab			✓	2019-2020
9	1901GEX01	Basic Electrical and Electronics Engineering	✓			2019-2020
10	1901GEX02	Engineering Graphics			✓	2019-2020
11	1901MA202	Engineering Mathematics –II			✓	2019-2020
12	1901PH201	Physics for Information Science			✓	2019-2020
13	1901GE252	Engineering Intelligence II			✓	2019-2020
14	1901GE201	Engineering Exploration			✓	2019-2020
15	1901GE254	Computer Hardware and IT Essentials Lab	✓			2019-2020
16	1901GEX51	CAD Lab	✓			2019-2020
17	1901PHX51	Engineering Physics Lab			✓	2019-2020
18	1901GEX53	Basic Electrical and Electronics Engineering Lab			✓	2019-2020

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19	1902MA302	Engineering Mathematics III((Queuing model and network model)			✓	2020-2021
20	1902IT301	Data Structures and Algorithms	✓			2020-2021
21	1902IT303	Computer Organization and Architecture			✓	2020-2021
22	1902IT303	Digital Principles and Design			✓	2020-2021
23	1902IT304	Problem solving using Python	✓			2020-2021
24	1901GEX04	Biology for Engineers	✓			2020-2021
25	1902IT351	Data Structures and Algorithms Lab			✓	2020-2021
26	1902IT353	Python Programming Lab			✓	2020-2021
27	1902IT352	Digital Principles and Design Lab			✓	2020-2021
28	1904GE351	Life Skills: Verbal Ability			✓	2020-2021
29	1902MCX02	Constitution of India	✓			2020-2021
30	1902IT401	Database Management Systems	✓			2020-2021
31	1902IT402	Java Programming	✓			2020-2021
32	1902IT403	Operating Systems	✓			2020-2021
33	1902IT404	Software Engineering and Project Management	✓			2020-2021
34	1902IT405	Computer Networks	✓			2020-2021
35	1902IT406	Principles of Communication	✓			2020-2021
36	1902IT451	Database Management Systems Lab	✓		✓	2020-2021

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37	1902IT452	Java Programming Lab	✓		✓	2020-2021
38	1902IT453	Operating Systems Lab	✓		✓	2020-2021
39	1901MCX01	Environmental Science	✓			2020-2021
40	1904GE451	Life Skills: Verbal Reasoning			✓	2020-2021
41	1702IT501	Object Oriented Analysis and Design	✓	✓		2018-2019
42	1702IT504	Web Programming	✓	✓		2018-2019
43	1702IT502	Distributed Computing	✓			2018-2019
44	1702IT503	Computer Graphics and Multimedia		✓		2018-2019
45	1703IT003	Artificial Intelligence	✓			2018-2019
46	1703IT005	Software Testing Methods and Tools	✓	✓		2018-2019
47	1704IT551	Case Tools (Mini Project I)	✓	✓	✓	2018-2019
48	1704GE551	Life Skills: Aptitude I			✓	2018-2019
49	1704IT552	Technical Seminar			✓	2018-2019
50	1702IT601	C# and .NET	✓			2018-2019
51	1702IT602	Mobile Computing	✓			2018-2019
52	1702IT603	Data Warehousing and Data Mining	✓			2018-2019
53	1702IT604	Wireless Communication	✓			2018-2019
54	1703IT013	Software Architectures	✓			2018-2019
55	1704IT651	Mobile Application Development (Mini Project II)		✓	✓	2018-2019
56	1704GE651	Life Skills:	✓		✓	2018-2019

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		Aptitude II				
57	1704IT652	Industrial Visit Presentation	✓	✓	✓	2018-2019
58	1701MGX01	Professional Ethics			✓	2018-2019
59	1702IT701	Data Analytics	✓	✓		2018-2019
60	1702IT702	Security in Computing	✓	✓		2018-2019
61	1702IT015	Information Management	✓			2018-2019
62	1704GE751	Life Skills: Competitive Exam Preparation			✓	2018-2019
63	1704IT751	Software Development (Mini Project III)	✓	✓	✓	2018-2019
64	1704IT752	In Plant / Internship Training Presentation	✓	✓	✓	2018-2019
65	1703IT019	Cyber Forensics	✓			2018-2019
66	1704IT851	Project Work	✓	✓	✓	2018-2019
67	1703IT027	Deep Learning	✓			2018-2019
68	1703IT025	Software Quality Assurance	✓			2018-2019

## B.Tech -Information Technology

### List of New course Introduced 2019-2020

S.NO	Course Code	Name of the Course	Activities /Content with direct bearing on Employability	Activities /Content with direct bearing on Entrepreneurship	Activities /Content with direct bearing on Skill development	Year of introductions (during the last five years)
1	1901MA102	Engineering Mathematics – i (calculus and linear algebra)			✓	2019-2020
2	1901CH101	Applied Chemistry in Informatics			✓	2019-2020
3	1901GEX03	Programming for problem solving	✓		✓	2019-2020
4	1901ENX01	English for			✓	2019-2020

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		Engineers				
5	1901GEX52	Computer Programming Lab			✓	2019-2020
6	1901GE151	Engineering Intelligence 1			✓	2019-2020
7	1901CHX51	Engineering Chemistry Lab			✓	2019-2020
8	1901HSX51	Communication skills lab			✓	2019-2020
9	1901GEX01	Basic Electrical and Electronics Engineering	✓			2019-2020
10	1901GEX02	Engineering Graphics			✓	2019-2020
11	1901MA202	Engineering Mathematics –II			✓	2019-2020
12	1901PH201	Physics for Information Science			✓	2019-2020
13	1901GE252	Engineering Intelligence II			✓	2019-2020
14	1901GE201	Engineering Exploration			✓	2019-2020
15	1901GE254	Computer Hardware and IT Essentials Lab	✓			2019-2020
16	1901GEX51	CAD Lab	✓			2019-2020
17	1901PHX51	Engineering Physics Lab			✓	2019-2020
18	1901GEX53	Basic Electrical and Electronics Engineering Lab			✓	2019-2020
19	1701MA301	Engineering Mathematics III			✓	2018-2019
20	1702IT301	Data Structures and Algorithms	✓			2018-2019
21	1702IT302	Digital Principles and Design			✓	2018-2019
22	1702CSX02	Database Management Systems	✓			2018-2019
23	1702IT303	Principles of Communication	✓			2018-2019
24	1702IT304	Computer Organization			✓	2018-2019

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		and Architecture				
25	1702CSX52	Database Management Systems Lab	✓		✓	2018-2019
26	1704GE351	Life Skills: Soft Skills			✓	2018-2019
27	1701MA401	Probability and Queuing Theory			✓	2018-2019
28	1702IT401	Software Engineering and Project Management	✓	✓		2018-2019
29	1702IT402	Java Programming	✓			2018-2019
30	1702IT403	Internet of Things	✓			2018-2019
31	1702IT404	Operating Systems	✓			2018-2019
32	1702IT405	Computer Networks	✓	✓		2018-2019
33	1702IT451	Networks Lab	✓		✓	2018-2019
34	1701CH201	Environmental Studies	✓			2018-2019
35	1704GE451	Life Skills: Verbal Ability			✓	2018-2019
36	1702IT501	Object Oriented Analysis and Design	✓	✓		2018-2019
37	1702IT504	Web Programming	✓	✓		2018-2019
38	1702IT502	Distributed Computing	✓			2018-2019
39	1702IT503	Computer Graphics and Multimedia		✓		2018-2019
40	1703IT003	Artificial Intelligence	✓			2018-2019
41	1703IT005	Software Testing Methods and Tools	✓	✓		2018-2019
42	1704IT551	Case Tools (Mini Project I)	✓	✓	✓	2018-2019
43	1704GE551	Life Skills: Aptitude I			✓	2018-2019
44	1704IT552	Technical			✓	2018-2019

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		Seminar				
45	1702IT601	C# and .NET	✓			2018-2019
46	1702IT602	Mobile Computing	✓			2018-2019
47	1702IT603	Data Warehousing and Data Mining	✓			2018-2019
48	1702IT604	Wireless Communication	✓			2018-2019
49	1703IT013	Software Architectures	✓			2018-2019
50	1704IT651	Mobile Application Development (Mini Project II)	✓	✓	✓	2018-2019
51	1704GE651	Life Skills: Aptitude II			✓	2018-2019
52	1704IT652	Industrial Visit Presentation	✓	✓	✓	2018-2019
53	IT6701	Information Management	✓			2016-2017
54	CS6701	Cryptography and Network Security	✓			2016-2017
55	IT6702	Data Warehousing and Data Mining	✓			2016-2017
56	CS6703	Grid and Cloud Computing		✓		2016-2017
57	IT6004	Software Testing	✓			2016-2017
58	IT6711	Data Mining Laboratory	✓		✓	2016-2017
59	IT6712	Security Laboratory	✓		✓	2016-2017
60	IT6713	Grid and Cloud Computing Laboratory	✓		✓	2016-2017
61	IT6801	Service Oriented Architecture	✓			2016-2017
62	GE6075	Professional Ethics in Engineering			✓	2016-2017
63	CS6004	Cyber Forensics	✓			2016-2017
64	MG6088	Software Project				2016-2017

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		Management				
65	IT6811	Project Work	✓	✓	✓	2016-2017

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### List of New course Introduced 2018-2019

S.NO	Course Code	Name of the Course	Activities /Content with direct bearing on Employability	Activities /Content with direct bearing on Entrepreneurship	Activities /Content with direct bearing on Skill development	Year of introductions (during the last five years)
1	1701MA101	Engineering Mathematics-I			✓	2019-2020
2	1701PH101	Applied Physics for Engineers			✓	2019-2020
3	1701EN101	Technical English			✓	2019-2020
4	1701CH101	Applied Chemistry in Informatics			✓	2019-2020
5	1701GEX01	Basic Electrical and Electronics Engineering			✓	2019-2020
6	1701GEX02	Engineering Graphics			✓	2019-2020
7	1701GEX03	Programming in C	✓			2019-2020
8	1701HS151	Physics and Chemistry Lab –I	✓		✓	2019-2020
9	1701GEX51	Programming in C Lab	✓		✓	2019-2020
10	1701GEX52	Communication Skills Lab			✓	2019-2020
11	1701MA201	Engineering Mathematics - II			✓	2019-2020
12	1701PH201	Physics of Engineering Materials			✓	2019-2020
13	1701CH201	Environmental Studies	✓			2019-2020
14	1701GE201	Basic Civil and Mechanical Engineering	✓			2019-2020
15	1702CS201	Programming in C++	✓			2019-2020
16	1701LE201	Communicative English			✓	2019-2020
17	1702CS251	Programming in C++ Lab	✓		✓	2019-2020
18	1701HS251	Physics and Chemistry Lab II	✓		✓	2019-2020
19	1701GEX53	Workshop Practice	✓		✓	

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20	1701MA301	Engineering Mathematics III			✓	2018-2019
21	1702IT301	Data Structures and Algorithms	✓			2018-2019
22	1702IT302	Digital Principles and Design			✓	2018-2019
23	1702CSX02	Database Management Systems	✓			2018-2019
24	1702IT303	Principles of Communication	✓			2018-2019
25	1702IT304	Computer Organization and Architecture			✓	2018-2019
26	1702CSX52	Database Management Systems Lab	✓		✓	2018-2019
27	1704GE351	Life Skills: Soft Skills			✓	2018-2019
28	1701MA401	Probability and Queuing Theory			✓	2018-2019
29	1702IT401	Software Engineering and Project Management	✓	✓		2018-2019
30	1702IT402	Java Programming	✓			2018-2019
31	1702IT403	Internet of Things	✓			2018-2019
32	1702IT404	Operating Systems	✓			2018-2019
33	1702IT405	Computer Networks	✓	✓		2018-2019
34	1702IT451	Networks Lab	✓		✓	2018-2019
35	1701CH201	Environmental Studies	✓			2018-2019
36	1704GE451	Life Skills: Verbal Ability			✓	2018-2019
37	CS6551	Computer Networks	✓	✓		2015-2016
38	IT6501	Graphics and Multimedia		✓		2015-2016
39	CS6502	Object Oriented Analysis and Design	✓	✓		2015-2016
40	IT6502	Digital Signal Processing	✓			2015-2016
41	IT6503	Web Programming	✓			2015-2016
42	EC6801	Wireless Communication	✓			2015-2016
43	IT6511	Networks Laboratory	✓		✓	2015-2016
44	IT6512	Web Programming Laboratory	✓		✓	2015-2016
45	IT6513	Case Tools	✓		✓	2015-2016

**ATTESTED**  
  
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# E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

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(Accredited by NAAC with 'A' Grade and NBA)

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Ph: 04365-251112

		Laboratory				
46	CS6601	Distributed Systems	✓			2015-2016
47	IT6601	Mobile Computing	✓			2015-2016
48	CS6659	Artificial Intelligence	✓			2015-2016
49	CS6660	Compiler Design			✓	2015-2016
50	IT6602	Software Architectures	✓	✓		2015-2016
51	GE6757	Total Quality Management	✓	✓	✓	2015-2016
52	IT6612	Compiler Laboratory	✓		✓	2015-2016
53	IT6611	Mobile Application Development Laboratory		✓	✓	2015-2016
54	GE6674	Communication and Soft Skills - Laboratory Based	✓		✓	2015-2016
55	IT6701	Information Management	✓			2016-2017
56	CS6701	Cryptography and Network Security	✓			2016-2017
57	IT6702	Data Ware Housing and Data Mining	✓			2016-2017
58	CS6703	Grid and Cloud Computing		✓		2016-2017
59	IT6004	Software Testing	✓			2016-2017
60	IT6711	Data Mining Laboratory	✓		✓	2016-2017
61	IT6712	Security Laboratory	✓		✓	2016-2017
62	IT6713	Grid and Cloud Computing Laboratory	✓		✓	2016-2017
63	IT6801	Service Oriented Architecture	✓			2016-2017
64	GE6075	Professional Ethics in Engineering			✓	2016-2017
65	CS6004	Cyber Forensics	✓			2016-2017
66	MG6088	Software Project Management		✓		2016-2017
67	IT6811	Project Work	✓	✓	<b>ATTESTED</b>	2016-2017

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B.Tech -Information Technology						
List of New course Introduced 2017-2018						
S.NO	Course Code	Name of the	Activities	Activities /Content	Activities	Year of



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		Course	/Content with direct bearing on Employability	with direct bearing on Entrepreneurship	/Content with direct bearing on Skill development	introductions (during the last five years)
1	1701MA101	Engineering Mathematics-I			✓	2019-2020
2	1701PH101	Applied Physics for Engineers			✓	2019-2020
3	1701EN101	Technical English			✓	2019-2020
4	1701CH101	Applied Chemistry in Informatics			✓	2019-2020
5	1701GEX01	Basic Electrical and Electronics Engineering			✓	2019-2020
6	1701GEX02	Engineering Graphics			✓	2019-2020
7	1701GEX03	Programming in C	✓			2019-2020
8	1701HS151	Physics and Chemistry Lab –I	✓		✓	2019-2020
9	1701GEX51	Programming in C Lab	✓		✓	2019-2020
10	1701GEX52	Communication Skills Lab			✓	2019-2020
11	1701MA201	Engineering Mathematics - II			✓	2019-2020
12	1701PH201	Physics of Engineering Materials			✓	2019-2020
13	1701CH201	Environmental Studies	✓			2019-2020
14	1701GE201	Basic Civil and Mechanical Engineering	✓			2019-2020
15	1702CS201	Programming in C++	✓			2019-2020
16	1701LE201	Communicative English			✓	2019-2020
17	1702CS251	Programming in C++ Lab	✓		✓	2019-2020
18	1701HS251	Physics and Chemistry Lab II	✓		✓	2019-2020
19	1701GEX53 1	Workshop Practice	✓	✓	✓	
20	MA6351	Transforms and Partial Differential equations			✓	2014-2015
21	CS6301	Programming and Data Structures II	✓			2014-2015
22	CS6302	Database Management Systems	✓			2014-2015
23	CS6303	Computer Architecture			✓	2014-2015
24	CS6304	Analog and Digital Communication			✓	2014-2015
25	GE6351	Environmental Science and Engineering	✓			2014-2015

ATTESTED

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26	IT6311	Programming and Data Structures Laboratory II	✓	✓	✓	2014-2015
27	IT6312	Database Management Systems Laboratory	✓	✓	✓	2014-2015
28	IT6313	Digital Communication Laboratory	✓	✓	✓	2014-2015
29	MA6453	Probability and Queueing Theory			✓	2014-2015
30	EC6504	Microprocessor and Microcontroller	✓			2014-2015
31	CS6402	Design and Analysis of Algorithms	✓			2014-2015
32	CS6401	Operating Systems	✓			2014-2015
33	CS6403	Software Engineering	✓			2014-2015
34	IT6411	Microprocessor and Microcontroller Laboratory	✓		✓	2014-2015
35	IT6412	Operating Systems Laboratory	✓		✓	2014-2015
36	IT6413	Software Engineering Laboratory	✓		✓	2014-2015
37	CS6551	Computer Networks	✓	✓		2015-2016
38	IT6501	Graphics and Multimedia		✓		2015-2016
39	CS6502	Object Oriented Analysis and Design	✓	✓		2015-2016
40	IT6502	Digital Signal Processing	✓			2015-2016
41	IT6503	Web Programming	✓			2015-2016
42	EC6801	Wireless Communication	✓			2015-2016
43	IT6511	Networks Laboratory	✓		✓	2015-2016
44	IT6512	Web Programming Laboratory	✓		✓	2015-2016
45	IT6513	Case Tools Laboratory	✓	✓	✓	2015-2016
46	CS6601	Distributed Systems	✓			2015-2016
47	IT6601	Mobile Computing	✓			2015-2016
48	CS6659	Artificial Intelligence	✓			2015-2016
49	CS6660	Compiler Design			✓	2015-2016
50	IT6602	Software Architectures	✓	✓		2015-2016
51	GE6757	Total Quality Management	✓	✓	✓	2015-2016
52	IT6612	Compiler Laboratory	✓			2015-2016
53	IT6611	Mobile Application Development	✓			2015-2016

**ATTESTED**  
  
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		Laboratory				
54	GE6674	Communication and Soft Skills - Laboratory Based	✓		✓	2015-2016
55	IT6701	Information Management	✓			2016-2017
56	CS6701	Cryptography and Network Security	✓			2016-2017
57	IT6702	Data Ware Housing and Data Mining	✓			2016-2017
58	CS6703	Grid and Cloud Computing		✓		2016-2017
59	IT6004	Software Testing	✓			2016-2017
60	IT6711	Data Mining Laboratory	✓		✓	2016-2017
61	IT6712	Security Laboratory	✓		✓	2016-2017
62	IT6713	Grid and Cloud Computing Laboratory	✓		✓	2016-2017
63	IT6801	Service Oriented Architecture	✓			2016-2017
64	GE6075	Professional Ethics in Engineering			✓	2016-2017
65	CS6004	Cyber Forensics	✓			2016-2017
66	MG6088	Software Project Management		✓		2016-2017
67	IT6811	Project Work	✓	✓	✓	2016-2017

**ATTESTED**  
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## E.G.S.PILLAY ENGINEERING COLLEGE(AUTONOMOUS),NAGAPATTINAM

### DEPARTMENT OF INFORMATION TECHNOLOGY

#### 1.1.3 Average Percentage of courses having focus on employability /entrepreneurship/skill development offered by the institution during the last five years

B.Tech -Information Technology				
List of New course Introduced 2021-2022				
S.NO	Course Code	Name of the Course	Activities/content with direct bearing on employability/Entrepreneurship/skill Development	Year of introductions (during the last five years)
1	1901MA102	Engineering Mathematics – i (calculus and linear algebra)	Skill Development: Eigenvalues and Eigenvectors of a real matrix, Circle of curvature in cartesian and parametric form	2019-2020
2	1901CH101	Applied Chemistry in Informatics	Skill Development: Desalination ,Lead acid battery, Polymer Matrix Composites.	2019-2020
3	1901GEX03	Programming for problem solving	Employability:Problem Solving Techniques, Algorithm Design– Flowchart–Pseudo codeStructure of C Program	2019-2020
4	1901ENX01	English for Engineers	Skill Development: Vocabulary and Grammars, Listening, Speaking,Reading, writing Skill	2019-2020
5	1901GEX52	Computer Programming Lab	Skill Development/ Employability	2019-2020
6	1901GE151	Engineering Intelligence 1	Skill Development:Behavioral Changes, value of individual competence, career planning and team work	2019-2020
7	1901CHX51	Engineering Chemistry Lab	Skill Development/ Employability	2019-2020
8	1901HSX51	Communication skills lab	Skill Development: Basic Language Chunks, Advanced Language Chunks, Writing and Vocabulary Enrichment.	2019-2020
9	1901GEX01	Basic Electrical and Electronics Engineering	Employability: Star and Delta Connection, AC transmission and distribution system, Half and Full wave Rectifiers	2019-2020
10	1901GEX02	Engineering Graphics	Skill development:Isometric projection and perspective projections, Sectioning of solids, Development of surfaces	2019-2020
11	1901MA202	Engineering Mathematics – II	Skill Development: Skill Development: Gradient, divergence and curl, Differential equations with constant coefficients	2019-2020

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12	1901PH201	Physics for Information Science	Skill development: Carrier concentration in intrinsic semiconductor, Domain theory, Synthesis of Nanomaterials.	2019-2020
13	1901GE252	Engineering Intelligence II	Skill Development: Vocabulary building, Communication, Interpersonal skills, Leadership skills. Resume building.	2019-2020
14	1901GE201	Engineering Exploration	Skill development: Designing Mindset. Methodology, challenges.	2019-2020
15	1901GE254	Computer Hardware and IT Essentials Lab	Employability / Entrepreneurship: Computer Components and operations, Configure operating systems	2019-2020
16	1901GEX51	CAD Lab	Employability / Entrepreneurship: CAD Software, Drawing Practice	2019-2020
17	1901PHX51	Engineering Physics Lab	Skill Development/ Employability	2019-2020
18	1901GEX53	Basic Electrical and Electronics Engineering Lab	Skill Development: Electronic circuits. Logic gates. Motors	2019-2020
19	1902MA302	Engineering Mathematics III((Queuing model and network model)	Skill Development: Harmonic Analysis, One dimensional wave equation, Convolution theorem	2020-2021
20	1902IT301	Data Structures and Algorithms	Employability : Linked list ADT, Stack ADT, Queue ADT, Sorting Algorithms./ Skill development : Implement an array ADT	2020-2021
21	1902IT303	Computer Organization and Architecture	Skill Development: Addressing modes, Pipelining, Hazards, DMA	2020-2021
22	1902IT303	Digital Principles and Design	Skill Development : Number Base conversions, Encoder, Decoder and Adder, Subtractor	2020-2021
23	1902IT304	Problem solving using Python	Employability : Strings, classes and objects, Modules Packages in python	2020-2021
24	1901GEX04	Biology for Engineers	New Course: Employability: The molecular basis of coding and decoding genetic information, Breakdown of glucose to CO <sub>2</sub> + H <sub>2</sub> O	2020-2021
25	1902IT351	Data Structures and Algorithms Lab	Skill Development/ Employability	2020-2021
26	1902IT353	Python Programming Lab	Skill Development/ Employability	2020-2021
27	1902IT352	Digital Principles and Design Lab	Skill Development/ Employability	2020-2021
28	1904GE351	Life Skills: Verbal Ability	Skill Development: Vocabulary Usage, Comprehension ability, Basic grammars, error	2020-2021

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			detection, verbal ability.	
29	1902MCX02	Constitution of India	Employability: Competitive exam preparation	2020-2021
30	1902IT401	Database Management Systems	Employability : Entity–Relationship model (E-R model),Data Storage, Query Processing, Database connectivity using SQL.	2020-2021
31	1902IT402	Java Programming	Employability : Employability : Class fundamentals, String Handling, Packages, Exception Fundamentals and Types	2020-2021
32	1902IT403	Operating Systems	Employability : Processes, CPU Scheduling, Deadlocks, Main Memory, Virtual Memory, Disk Scheduling and Management	2020-2021
33	1902IT404	Software Engineering and Project Management	Employability /Entrepreneurship: Software Testing fundamentals, User Interface Design, Project Scheduling	2020-2021
34	1902IT405	Computer Networks	Employability /Entrepreneurship:TCP/IP Protocol Suite, Routing Techniques, Congestion Control and Resource Allocation	2020-2021
35	1902IT406	Principles of Communication	Employability:AM,FM,PM,QPSK,Optical communication	2020-2021
36	1902IT451	Database Management Systems Lab	Skill Development/ Employability	2020-2021
37	1902IT452	Java Programming Lab	Skill Development/ Employability	2020-2021
38	1902IT453	Operating Systems Lab	Skill Development/ Employability	2020-2021
39	1901MCX01	Environmental Science	Employability:Documentation study of local polluted site – Urban / Rural / Industrial / Agricultural.	2020-2021
40	1904GE451	Life Skills: Verbal Reasoning	skill Development	2020-2021
41	1902IT501	Object Oriented Analysis and Design	Employability / Entrepreneurship: UML diagrams, Design Patterns, Coding and Testing	2020-2021
42	1902IT502	Web Programming	Employability /Entrepreneurship: Client-Side Scripting, Server-Side Scripting, HTML5, CSS3, Java Servlets, JSP, PHP, XML.	2020-2021
43	1902IT503	Security in Computing	Employability /Entrepreneurship: Attacks, Classical Encryption techniques ,Euclid's algorithm, The RSA algorithm,	2020-2021
44	1902IT504	Internet of Things	Employability:Internet of Things With Raspberry Pi, Setting up a weather station – Security surveillance system using camera	2020-2021
45	1901MGX01	Total Quality	Skill DevelopmentEmployability	2020-2021

ATTESTED  
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Principal  
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		Management	/Entrepreneurship: PDCA cycle,QFD,TPM,Quality audit	
46	1903IT001	Software Testing Methods and Tools	Employability /Entrepreneurship: Phases of Software project, Testing, Introduction to Test planning, Test Management	2020-2021
47	1904IT551	Case Tools (Mini Project I)	Skill Development/ Employability/ Entrepreneurship	2020-2021
48	1902IT551	Web Programming Lab	New Course:Skill Development/ Employability/ Entrepreneurship	2020-2021
49	1904GE551	Life Skills: Aptitude I	New Couses:Skill Development: Aptitude training	2020-2021
50	1904IT552	Startup Opportunities for IT Engineers	New Couses:Entrepreneurship	2020-2021
51	1902MCX03	Essence of Indian Traditional Knowledge	New Couses:Employability: Competitive exam preparation	2020-2021
52	1902IT601	Artificial Intelligence	Employability : fuzzy logic, Natural Language Processing, Robotics.Depth first and Best-first search, Expert systems	2020-2021
53	1902IT602	Mobile Computing	Employability:GSM,GPRS,VANET,ios	2020-2021
54	1902IT603	Data Warehousing and Data Mining	Employability/Entrepreneurship:Classification, Clustering, HDFS, Map Reduce	2020-2021
55	1903IT006	Multicore Architecture	Employability: SMT and CMP architectures,Non-blocking algorithms, n-Body solvers	2020-2021
56	1901HS003	Startup Entrepreneurship	New Couses:Entrepreneurship	2020-2021
57	1904IT651	Mobile Application Development (Mini Project II)	Skill Development/ Employability/ Entrepreneurship	2020-2021
58	1904GE651	Life Skills: Aptitude II& GD	New Couses:Skill Development: Aptitude, Reasoning training	2020-2021
59	1904IT652	Industrial Visit Presentation	New Couses:Skill Development/ Employability/ Entrepreneurship	2020-2021
60	1701MGX01	Professional Ethics	Skill Development:Human Values, Ethics, workplace responsibilities , Leadership	2018-2019
61	1702IT701	Data Analytics	Employability /Entrepreneurship: Data Science, Data Scientist, Terminologies Used in Big Data Environment	2018-2019
62	1702IT702	Security in Computing	Employability /Entrepreneurship: Attacks, Classical Encryption techniques ,Euclid's algorithm, The RSA algorithm, Hash function	2018-2019

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63	1702IT015	Information Management	Employability:Depth first and Best-first search,Fuzzy reasoning, Expert systems,Robotics.	2018-2019
64	1704GE751	Life Skills: Competitive Exam Preparation	Skill Development:GATE and other Technical Competitive exam preparation	2018-2019
65	1704IT751	Software Development (Mini Project III)	Skill Development/ Employability/ Entrepreneurship	2018-2019
66	1704IT752	In Plant / Internship Training Presentation	Skill Development	2018-2019
67	1703IT019	Cyber Forensis	Employability : SSL protocol,Firewall ,Creating response tool kit and IR team, Tools: Software / Hardware Tools	2018-2019
68	1704IT851	Project Work	Skill Development/ Employability/ Entrepreneurship	2018-2019
69	1703IT027	Deep Learning	Employability:Regression ,RNNs,Secure Online Processing ,Fraud Detection ,Cyber Forensics	2018-2019
70	1703IT025	Software Quality Assurance	Employability:– Application of Cost model,ISO 9001 and ISO 9000-3, SQA units and other actors in SQA systems	2018-2019

## B.Tech -Information Technology

### List of New course Introduced 2020-2021

S.NO	Course Code	Name of the Course	Activities/content with direct bearing on employability/Entrepreneurship/skill Development	Year of introductions (during the last five years)
1	1901MA102	Engineering Mathematics – i (calculus and linear algebra)	Skill Development: Eigenvalues and Eigenvectors of a real matrix, Circle of curvature in cartesian and parametric form	2019-2020
2	1901CH101	Applied Chemistry in Informatics	Skill Development: Desalination ,Lead acid battery, Polymer Matrix Composites.	2019-2020
3	1901GEX03	Programming for problem solving	Employability:Problem Solving Techniques, Algorithm Design– Flowchart–Pseudo codeStructure of C Program	2019-2020
4	1901ENX01	English for Engineers	Skill Development: Vocabulary and Grammars, Listening, Speaking,Reading, writing Skill	2019-2020
5	1901GEX52	Computer Programming	Skill Development	2019-2020

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		Lab		
6	1901GE151	Engineering Intelligence 1	Skill Development: Behavioral Changes, value of individual competence, career planning and team work	2019-2020
7	1901CHX51	Engineering Chemistry Lab	Skill Development/ Employability	2019-2020
8	1901HSX51	Communication skills lab	Skill Development: Basic Language Chunks, Advanced Language Chunks, Writing and Vocabulary Enrichment.	2019-2020
9	1901GEX01	Basic Electrical and Electronics Engineering	Employability: Star and Delta Connection, AC transmission and distribution system, Half and Full wave Rectifiers	2019-2020
10	1901GEX02	Engineering Graphics	Skill development: Isometric projection and perspective projections, Sectioning of solids, Development of surfaces	2019-2020
11	1901MA202	Engineering Mathematics –II	Skill Development: Skill Development: Gradient, divergence and curl, Differential equations with constant coefficients	2019-2020
12	1901PH201	Physics for Information Science	Skill development: Carrier concentration in intrinsic semiconductor, Domain theory, Synthesis of Nanomaterials.	2019-2020
13	1901GE252	Engineering Intelligence II	Skill Development: Vocabulary building, Communication, Interpersonal skills, Leadership skills. Resume building.	2019-2020
14	1901GE201	Engineering Exploration	Skill development: Designing Mindset. Methodology, challenges.	2019-2020
15	1901GE254	Computer Hardware and IT Essentials Lab	Employability / Entrepreneurship: Computer Components and operations, Configure operating systems	2019-2020
16	1901GEX51	CAD Lab	Employability / Entrepreneurship: CAD Software, Drawing Practice	2019-2020
17	1901PHX51	Engineering Physics Lab	Skill Development/ Employability	2019-2020
18	1901GEX53	Basic Electrical and Electronics Engineering Lab	Skill Development: Electronic circuits. Logic gates. Motors	2019-2020
19	1902MA302	Engineering Mathematics III((Queuing model and network model)	Skill Development: Harmonic Analysis, One dimensional wave equation, Convolution theorem	2020-2021
20	1902IT301	Data Structures and Algorithms	Employability : Linked list ADT, Stack ADT, Queue ADT, Sorting Algorithms./ Skill development : Implement an array ADT	2020-2021
21	1902IT303	Computer Organization and Architecture	Skill Development: Addressing modes, Pipelining, Hazards, DMA	2020-2021

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22	1902IT303	Digital Principles and Design	Skill Development : Number Base conversions, Encoder, Decoder and Adder, Subtractor	2020-2021
23	1902IT304	Problem solving using Python	Employability : Strings, classes and objects, Modules Packages in python	2020-2021
24	1901GEX04	Biology for Engineers	New Course:Employability: The molecular basis of coding and decoding genetic information,Breakdown of glucose to CO <sub>2</sub> + H <sub>2</sub> O	2020-2021
25	1902IT351	Data Structures and Algorithms Lab	Skill Development/ Employability	2020-2021
26	1902IT353	Python Programming Lab	Skill Development/ Employability	2020-2021
27	1902IT352	Digital Principles and Design Lab	Skill Development/ Employability	2020-2021
28	1904GE351	Life Skills: Verbal Ability	Skill Development: Vocabulary Usage, Comprehension ability, Basic grammars, error detection, verbal ability.	2020-2021
29	1902MCX02	Constitution of India	Employability: Competitive exam preparation	2020-2021
30	1902IT401	Database Management Systems	Employability : Entity–Relationship model (E-R model),Data Storage, Query Processing, Database connectivity using SQL.	2020-2021
31	1902IT402	Java Programming	Employability : Employability : Class fundamentals, String Handling, Packages, Exception Fundamentals and Types	2020-2021
32	1902IT403	Operating Systems	Employability : Processes, CPU Scheduling, Deadlocks, Main Memory, Virtual Memory, Disk Scheduling and Management	2020-2021
33	1902IT404	Software Engineering and Project Management	Employability /Entrepreneurship: Software Testing fundamentals, User Interface Design, Project Scheduling	2020-2021
34	1902IT405	Computer Networks	Employability /Entrepreneurship:TCP/IP Protocol Suite, Routing Techniques, Congestion Control and Resource Allocation	2020-2021
35	1902IT406	Principles of Communication	Employability:AM,FM,PM,QPSK,Optical communication	2020-2021
36	1902IT451	Database Management Systems Lab	Skill Development/ Employability	2020-2021
37	1902IT452	Java Programming Lab	Skill Development/ Employability	2020-2021
38	1902IT453	Operating Systems Lab	Skill Development/ Employability	2020-2021

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39	1901MCX01	Environmental Science	Employability: Documentation study of local polluted site – Urban / Rural / Industrial / Agricultural.	2020-2021
40	1904GE451	Life Skills: Verbal Reasoning	skill Development	2020-2021
41	1702IT501	Object Oriented Analysis and Design	Employability / Entrepreneurship: UML diagrams, Design Patterns, Coding and Testing	2018-2019
42	1702IT504	Web Programming	Employability / Entrepreneurship: Client-Side Scripting, Server-Side Scripting, HTML5, CSS3, Java Servlets, JSP, PHP, XML.	2018-2019
43	1702IT502	Distributed Computing	Employability: Network Virtualization ,RMI,Coda	2018-2019
44	1702IT503	Computer Graphics and Multimedia	Entrepreneurship: Computer Graphics, 2D, 3DMultimedia application, Video image animation	2018-2019
45	1703IT003	Artificial Intelligence	Employability : fuzzy logic, Natural Language Processing, Robotics. Depth first and Best-first search, Expert systems	2018-2019
46	1703IT005	Software Testing Methods and Tools	Employability / Entrepreneurship: Phases of Software project, Testing, Introduction to Test planning, Test Management	2018-2019
47	1704IT551	Case Tools (Mini Project I)	Skill Development/ Employability/ Entrepreneurship	2018-2019
48	1704GE551	Life Skills: Aptitude I	Skill Development: Aptitude training	2018-2019
49	1704IT552	Technical Seminar	Skill development: Presentation Skill and Communication Skill	2018-2019
50	1702IT601	C# and .NET	Employability: Decision Making and Branching , Decision Making and Looping , Structures and Enumerations	2018-2019
51	1702IT602	Mobile Computing	Employability: GSM, GPRS, VANET, Ios	2018-2019
52	1702IT603	Data Warehousing and Data Mining	Employability/ Entrepreneurship: Classification, Clustering, HDFS, Map Reduce	2018-2019
53	1702IT604	Wireless Communication	Employability: FDMA, TDMA, CDMA, QPSK	2018-2019
54	1703IT013	Software Architectures	Employability / Entrepreneurship: Architecture Business cycle, SEI, ACME, SOA	2018-2019
55	1704IT651	Mobile Application Development (Mini Project II)	Skill Development/ Employability/ Entrepreneurship	2018-2019
56	1704GE651	Life Skills: Aptitude II	Skill Development: Aptitude, Reasoning training	2018-2019
57	1704IT652	Industrial Visit	Skill Development/ Employability	2018-2019

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		Presentation	Entrepreneurship	
58	1701MGX01	Professional Ethics	Skill Development: Human Values, Ethics, workplace responsibilities, Leadership	2018-2019
59	1702IT701	Data Analytics	Employability /Entrepreneurship: Data Science, Data Scientist, Terminologies Used in Big Data Environment	2018-2019
60	1702IT702	Security in Computing	Employability /Entrepreneurship: Attacks, Classical Encryption techniques, Euclid's algorithm, The RSA algorithm, Hash function	2018-2019
61	1702IT015	Information Management	Employability: Depth first and Best-first search, Fuzzy reasoning, Expert systems, Robotics.	2018-2019
62	1704GE751	Life Skills: Competitive Exam Preparation	New Course: Skill Development: GATE and other Technical Competitive exam preparation	2018-2019
63	1704IT751	Software Development (Mini Project III)	New Course: Skill Development/ Employability/ Entrepreneurship	2018-2019
64	1704IT752	In Plant / Internship Training Presentation	New Course: Skill Development	2018-2019
65	1703IT019	Cyber Forensics	Employability : SSL protocol, Firewall, Creating response tool kit and IR team, Tools: Software / Hardware Tools	2018-2019
66	1704IT851	Project Work	Skill Development/ Employability/ Entrepreneurship	2018-2019
67	1703IT027	Deep Learning	New Course: Employability: Regression, RNNs, Secure Online Processing, Fraud Detection, Cyber Forensics	2018-2019
68	1703IT025	Software Quality Assurance	Employability: – Application of Cost model, ISO 9001 and ISO 9000-3, SQA units and other actors in SQA systems	2018-2019

## B.Tech -Information Technology

### List of New course Introduced 2019-2020

S.NO	Course Code	Name of the Course	Activities/content with direct bearing on employability/Entrepreneurship/skill Development	Year of introductions (during the last five years)
1	1901MA102	Engineering Mathematics – i (calculus and	Skill Development: Eigenvalues and Eigenvectors of a real matrix, Curvature in cartesian and parametric form	2019-2020

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		linear algebra)		
2	1901CH101	Applied Chemistry in Informatics	Skill Development: Desalination ,Lead acid battery, Polymer Matrix Composites.	2019-2020
3	1901GEX03	Programming for problem solving	Employability:Problem Solving Techniques, Algorithm Design– Flowchart–Pseudo codeStructure of C Program	2019-2020
4	1901ENX01	English for Engineers	Skill Development: Vocabulary and Grammars, Listening, Speaking,Reading, writing Skill	2019-2020
5	1901GEX52	Computer Programming Lab	Skill Development/ Employability	2019-2020
6	1901GE151	Engineering Intelligence 1	Skill Development:Behavioral Changes, value of individual competence, career planning and team work	2019-2020
7	1901CHX51	Engineering Chemistry Lab	Skill Development/ Employability	2019-2020
8	1901HSX51	Communication skills lab	Skill Development: Basic Language Chunks, Advanced Language Chunks, Writing and Vocabulary Enrichment.	2019-2020
9	1901GEX01	Basic Electrical and Electronics Engineering	Employability: Star and Delta Connection, AC transmission and distribution system, Half and Full wave Rectifiers	2019-2020
10	1901GEX02	Engineering Graphics	Skill development:Isometric projection and perspective projections, Sectioning of solids, Development of surfaces	2019-2020
11	1901MA202	Engineering Mathematics –II	Skill Development: Skill Development: Gradient, divergence and curl, Differential equations with constant coefficients	2019-2020
12	1901PH201	Physics for Information Science	Skill development:Carrier concentration in intrinsic semiconductor, Domain theory, Synthesis of Nanomaterials.	2019-2020
13	1901GE252	Engineering Intelligence II	Skill Development: Vocabulary building, Communication, Interpersonal skills, Leadership skills. Resume building.	2019-2020
14	1901GE201	Engineering Exploration	Skill development: Designing Mindset. Methodology, challenges.	2019-2020
15	1901GE254	Computer Hardware and IT Essentials Lab	Employability / Entrepreneurship:Computer Components and operations, Configure operating systems	2019-2020
16	1901GEX51	CAD Lab	Employability / Entrepreneurship: CAD Software, Drawing Practice	2019-2020
17	1901PHX51	Engineering Physics Lab	Skill Development/ Employability	2019-2020
18	1901GEX53	Basic Electrical and Electronics	Skill Development: Electronic Circuits. Logic gates. Motors	2019-2020

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		Engineering Lab		
19	1701MA301	Engineering Mathematics III	Skill Development: Harmonic Analysis, One dimensional wave equation, Convolution theorem on Fourier Transform	2018-2019
20	1702IT301	Data Structures and Algorithms	Employability : Implement an array ADT, Implement insert, search and display operations in a singly linked list	2018-2019
21	1702IT302	Digital Principles and Design	Skill Development : Number Base conversions, Encoder, Decoder and Adder, Subtractor	2018-2019
22	1702CSX02	Database Management Systems	Employability : Entity–Relationship model ,Data Storage, Query Processing, Transaction recovery	2018-2019
23	1702IT303	Principles of Communication	Employability:AM,FM,PM,QPSK,Optical communication	2018-2019
24	1702IT304	Computer Organization and Architecture	Skill Development:Addressing modes,Pipelining,Hazards,DMA	2018-2019
25	1702CSX52	Database Management Systems Lab	Skill Development/ Employability	2018-2019
26	1704GE351	Life Skills: Soft Skills	Skill Development: Soft skills. Team, Corporate Etiquette, Learning by Practice	2018-2019
27	1701MA401	Probability and Queuing Theory	Skill Development: Moments ,Correlation and Linear regression, Markov Process, Poisson Process	2018-2019
28	1702IT401	Software Engineering and Project Management	Employability /Entrepreneurship: Managing Software Projects Software Testing and Debugging, designConcepts	2018-2019
29	1702IT402	Java Programming	Employability: String Handling, Packages, Java I/O Classes and Interfaces, Manipulating Databases with JDBC.	2018-2019
30	1702IT403	Internet of Things	Employability: Employability: Internet of Things With Raspberry Pi, Setting up a weather station	2018-2019
31	1702IT404	Operating Systems	Employability: Processes, CPU Scheduling, Deadlocks, Main Memory, Virtual Memory, Disk Scheduling and Management	2018-2019
32	1702IT405	Computer Networks	Employability /Entrepreneurship: TCP/IP Protocol Suite, Routing Techniques	2018-2019
33	1702IT451	Networks Lab	Skill Development/ Employability	2018-2019
34	1701CH201	Environmental Studies	Employability:Documentation study of local polluted site – Urban / Rural / Industrial / Agricultural.	2018-2019
35	1704GE451	Life Skills: Verbal Ability	Skill Development: Vocabulary Usage, Comprehension skills, Basic grammar error detection, verbal ability	2018-2019

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36	1702IT501	Object Oriented Analysis and Design	Employability / Entrepreneurship: UML diagrams, Design Patterns, Coding and Testing	2018-2019
37	1702IT504	Web Programming	Employability /Entrepreneurship: Client-Side Scripting, Server-Side Scripting, HTML5, CSS3, Java Servlets, JSP, PHP, XML.	2018-2019
38	1702IT502	Distributed Computing	Employability:Network Virtualization ,RMI,Coda	2018-2019
39	1702IT503	Computer Graphics and Multimedia	Entrepreneurship:Computer Graphics, 2D, 3DMultimedia application, Video image animation	2018-2019
40	1703IT003	Artificial Intelligence	Employability : fuzzy logic, Natural Language Processing, Robotics.Depth first and Best-first search, Expert systems	2018-2019
41	1703IT005	Software Testing Methods and Tools	New Course:Employability /Entrepreneurship: Phases of Software project, Testing, Introduction to Test planning, Test Management	2018-2019
42	1704IT551	Case Tools (Mini Project I)	Skill Development/ Employability/ Entrepreneurship	2018-2019
43	1704GE551	Life Skills: Aptitude I	New Course:Skill Development: Aptitude training	2018-2019
44	1704IT552	Technical Seminar	New Course:Skill development:Presentation Skill and Communication Skill	2018-2019
45	1702IT601	C# and .NET	New Course:Employability: Decision Making and Branching ,Decision Making and Looping ,Structures and Enumerations	2018-2019
46	1702IT602	Mobile Computing	Employability:GSM,GPRS,VANET,ios	2018-2019
47	1702IT603	Data Warehousing and Data Mining	Employability/Entrepreneurship:Classification, Clustering, HDFS, Map Reduce	2018-2019
48	1702IT604	Wireless Communication	Employability:FDMA,TDMA,CDMA,QPSK	2018-2019
49	1703IT013	Software Architectures	Employability /Entrepreneurship: Architecture Business cycle,SEI,ACME,SOA	2018-2019
50	1704IT651	Mobile Application Development (Mini Project II)	New Course:Skill Development/ Employability/ Entrepreneurship	2018-2019
51	1704GE651	Life Skills: Aptitude II	New Course:Skill Development: Aptitude, Reasoning training	2018-2019
52	1704IT652	Industrial Visit Presentation	New Course:Skill Development/ Employability/ Entrepreneurship	2018-2019
53	IT6701	Information Management	Employability:Depth first and Best-first search,Fuzzy reasoning, Expert systems,Robotics.	2016-2017

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54	CS6701	Cryptography and Network Security	Employability : Attacks,Classical Encryption techniques,Euclid's algorithm,The RSA algorithm	2016-2017
55	IT6702	Data Ware Housing and Data Mining	Employability:Data warehouse,Metadata,OLAP,Data Mining,Association Rule Mining,classification, Prediction	2016-2017
56	CS6703	Grid and Cloud Computing	Entrepreneurship : Overview of Grid Architecture,Introduction to Hadoop Framework,Design of Hadoop file system,SaaS	2016-2017
57	IT6004	Software Testing	Employability : Using Black Bod Approach to Test Case Design, Using White Box Approach to Test design, Unit Test	2016-2017
58	IT6711	Data Mining Laboratory	Skill Development/ Employability	2016-2017
59	IT6712	Security Laboratory	Skill Development/ Employability	2016-2017
60	IT6713	Grid and Cloud Computing Laboratory	Skill Development/ Employability	2016-2017
61	IT6801	Service Oriented Architecture	Employability: DOM,XSL,SOAP,UDDI,SOA Support in J2EE.	2016-2017
62	GE6075	Professional Ethics in Engineering	Skill Development:Human Values, Ethics, workplace responsibilities , Leadership	2016-2017
63	CS6004	Cyber Forensics	Employability : SSL protocol,Firewall ,Creating response tool kit and IR team, Tools: Software / Hardware Tools	2016-2017
64	MG6088	Software Project Management	Entrepreneurship:Risk evaluation ,Stepwise Project planning,Basics of software estimation,Software Configuration management	2016-2017
65	IT6811	Project Work	Skill Development/ Employability/ Entrepreneurship	2016-2017

## B.Tech -Information Technology

### List of New course Introduced 2018-2019

S.NO	Course Code	Name of the Course	Activities/content with direct bearing on employability/Entrepreneurship/skill Development	Year of introductions (during the last five years)
1	1701MA101	Engineering Mathematics-I	Skill Development : Eigenvalues and Eigenvectors of a real matrix, Circle of curvature ,Maxima and Minima.	2019-2020
2	1701PH101	Applied Physics	Skill Development:Young's Modulus, uniform	2019-2020

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		for Engineers	bending, non uniform bending, fiber optics: fiber optic communication system	
3	1701EN101	Technical English	Skill Development: Grammars, Vocabulary building, Communication Skill	2019-2020
4	1701CH101	Applied Chemistry in Informatics	Skill Development: Desalination, Lead acid battery, Polymer Matrix Composites.	2019-2020
5	1701GEX01	Basic Electrical and Electronics Engineering	Skill Development: DC and AC Circuits, Three Phase System, Electrical Machines, Power plant	2019-2020
6	1701GEX02	Engineering Graphics	Skill development: Isometric projection and perspective projections, Sectioning of solids, Development of surfaces	2019-2020
7	1701GEX03	Programming in C	Employability: String Handling Functions, Programs using Strings- Managing I/O Operations	2019-2020
8	1701HS151	Physics and Chemistry Lab –I	Employability / Skill development	2019-2020
9	1701GEX51	Programming in C Lab	Employability / Skill development	2019-2020
10	1701GEX52	Communication Skills Lab	Skill Development: Inter personal Communication, Reading Comprehensions, Writing Skills, Presentation Skills	2019-2020
11	1701MA201	Engineering Mathematics - II	Skill Development: Gradient, divergence and curl, Differential equations with constant coefficients	2019-2020
12	1701PH201	Physics of Engineering Materials	Skill development: Carrier concentration in intrinsic semiconductor, Domain theory, Synthesis of Nanomaterials.	2019-2020
13	1701CH201	Environmental Studies	Employability: Documentation study of local polluted site – Urban / Rural / Industrial / Agricultural.	2019-2020
14	1701GE201	Basic Civil and Mechanical Engineering	Employability: Window and Split type room Air conditioner	2019-2020
15	1702CS201	Programming in C++	Employability: C++ programming, Class, object, Polymorphism & Inheritance, Virtual functions & Templates, File & Exception Handling	2019-2020
16	1701LE201	Communicative English	Skill Development: Basic Language Chunks, Advanced Language Chunks, Writing and Vocabulary Enrichment.	2019-2020
17	1702CS251	Programming in C++ Lab	Employability / Skill development	2019-2020
18	1701HS251	Physics and Chemistry Lab II	Employability / Skill development	2019-2020
19	1701GEX53 1	Workshop Practice	Employability / Entrepreneurship / Skill development	

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20	1701MA301	Engineering Mathematics III	Skill Development: Harmonic Analysis, One dimensional wave equation, Convolution theorem on Fourier Transform	2018-2019
21	1702IT301	Data Structures and Algorithms	Employability : Implement an array ADT, Implement insert, search and display operations in a singly linked list	2018-2019
22	1702IT302	Digital Principles and Design	Skill Development : Number Base conversions, Encoder, Decoder and Adder, Subtractor	2018-2019
23	1702CSX02	Database Management Systems	Employability : Entity–Relationship model ,Data Storage, Query Processing, Transaction recovery	2018-2019
24	1702IT303	Principles of Communication	Employability:AM,FM,PM,QPSK,Optical communication	2018-2019
25	1702IT304	Computer Organization and Architecture	Skill Development:Addressing modes,Pipelining,Hazards,DMA	2018-2019
26	1702CSX52	Database Management Systems Lab	Skill Development/ Employability	2018-2019
27	1704GE351	Life Skills: Soft Skills	Skill Development: Soft skills. Team, Corporate Etiquette, Learning by Practice	2018-2019
28	1701MA401	Probability and Queuing Theory	Skill Development: Moments ,Correlation and Linear regression, Markov Process, Poisson Process	2018-2019
29	1702IT401	Software Engineering and Project Management	Employability /Entrepreneurship: Managing Software Projects Software Testing and Debugging, designConcepts	2018-2019
30	1702IT402	Java Programming	Employability: String Handling, Packages, Java I/O Classes and Interfaces, Manipulating Databases with JDBC.	2018-2019
31	1702IT403	Internet of Things	Employability: Employability: Internet of Things With Raspberry Pi, Setting up a weather station	2018-2019
32	1702IT404	Operating Systems	Employability: Processes, CPU Scheduling, Deadlocks, Main Memory, Virtual Memory, Disk Scheduling and Management	2018-2019
33	1702IT405	Computer Networks	Employability /Entrepreneurship: TCP/IP Protocol Suite, Routing Techniques	2018-2019
34	1702IT451	Networks Lab	Skill Development/ Employability	2018-2019
35	1701CH201	Environmental Studies	Employability:Documentation study of local polluted site – Urban / Rural / Industrial / Agricultural.	2018-2019
36	1704GE451	Life Skills: Verbal Ability	Skill Development: Vocabulary Usage, Comprehension ability, Basic grammars, error detection, verbal ability.	2018-2019

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37	CS6551	Computer Networks	Employability /Entrepreneurship: TCP/IP Protocol Suite, Routing Techniques, Congestion Control and Resource Allocation	2015-2016
38	IT6501	Graphics and Multimedia	Entrepreneurship: 2D, 3DMultimedia application, Video image animation,Photoshop	2015-2016
39	CS6502	Object Oriented Analysis and Design	Employability /Entrepreneurship: Use Case Modeling , Inheritance , Abstract Classes , Polymorphism	2015-2016
40	IT6502	Digital Signal Processing	Employability:DFT,IDFT,IIR filter,Structures of FIR	2015-2016
41	IT6503	Web Programming	Employability : Web Essentials, Markup Languages, Cascading Style Sheets, JavaScript, Document Object Model, Java Servlets, JSP	2015-2016
42	EC6801	Wireless Communication	Employability:FDMA,TDMA,CDMA,QPSK	2015-2016
43	IT6511	Networks Laboratory	Employability/Skill Development	2015-2016
44	IT6512	Web Programming Laboratory	Employability/Skill Development	2015-2016
45	IT6513	Case Tools Laboratory	Employability/Skill Development/Entrepreneurship	2015-2016
46	CS6601	Distributed Systems	Employability:Network Virtualization ,RMI,Coda	2015-2016
47	IT6601	Mobile Computing	Employability:GSM,GPRS,VANET,ios	2015-2016
48	CS6659	Artificial Intelligence	Employability:Depth first and Best-first search,Fuzzy reasoning, Expert systems,Robotics.	2015-2016
49	CS6660	Compiler Design	Skill Development:DFA,Parser context free grammars,PDA	2015-2016
50	IT6602	Software Architectures	Employability /Entrepreneurship: Architecture Business cycle,SEI,ACME,SOA	2015-2016
51	GE6757	Total Quality Management	Skill DevelopmentEmployability /Entrepreneurship: PDCA cycle,QFD,TPM,Quality audit	2015-2016
52	IT6612	Compiler Laboratory	Skill Development/ Employability	2015-2016
53	IT6611	Mobile Application Development Laboratory	Skill Development/ Employability/ Entrepreneurship	2015-2016
54	GE6674	Communication and Soft Skills - Laboratory Based	ATTESTED Skill Development/ Employability	2015-2016
55	IT6701	Information	Employability:Depth first and Best-first	2016-2017

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		Management	search,Fuzzy reasoning, Expert systems,Robotics.	
56	CS6701	Cryptography and Network Security	Employability : Attacks,Classical Encryption techniques,Euclid's algorithm,The RSA algorithm	2016-2017
57	IT6702	Data Ware Housing and Data Mining	Employability:Data warehouse,Metadata,OLAP,Data Mining,Association Rule Mining,classification, Prediction	2016-2017
58	CS6703	Grid and Cloud Computing	Entrepreneurship : Overview of Grid Architecture,Introduction to Hadoop Framework,Design of Hadoop file system,SaaS	2016-2017
59	IT6004	Software Testing	Employability : Using Black Bod Approach to Test Case Design, Using White Box Approach to Test design, Unit Test	2016-2017
60	IT6711	Data Mining Laboratory	Skill Development/ Employability	2016-2017
61	IT6712	Security Laboratory	Skill Development/ Employability	2016-2017
62	IT6713	Grid and Cloud Computing Laboratory	Skill Development/ Employability	2016-2017
63	IT6801	Service Oriented Architecture	Employability: DOM,XSL,SOAP,UDDI,SOA Support in J2EE.	2016-2017
64	GE6075	Professional Ethics in Engineering	Skill Development:Human Values, Ethics, workplace responsibilities , Leadership	2016-2017
65	CS6004	Cyber Forensics	Employability : SSL protocol,Firewall ,Creating response tool kit and IR team, Tools: Software / Hardware Tools	2016-2017
66	MG6088	Software Project Management	Entrepreneurship:Risk evaluation ,Stepwise Project planning,Basics of software estimation,Software Configuration management	2016-2017
67	IT6811	Project Work	Skill Development/ Employability/ Entrepreneurship	2016-2017

B.Tech -Information Technology				
List of New course Introduced 2017-2018				
S.NO	Course Code	Name of the Course	Activities/content with direct bearing on employability/Entrepreneurship/skill Development	Year of introductions (during the last five years)
1	1701MA101	Engineering	Skill Development : Eigen values and Eigen vectors	2019-2020

ATTESTED  
  
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**PRINCIPAL**  
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 - 611 002 -  
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# E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM – 611 002. TAMILNADU, INDIA

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		Mathematics-I	of a real matrix, Circle of curvature ,Maxima and Minima .	
2	1701PH101	Applied Physics for Engineers	Skill Development:Young's modulus, uniform bending, non uniform bending, fiber optics: fiber optic communication system	2019-2020
3	1701EN101	Technical English	Skill Development:Grammars, Vocabulary building, Communication Skill	2019-2020
4	1701CH101	Applied Chemistry in Informatics	Skill Development: Desalination ,Lead acid battery, Polymer Matrix Composites.	2019-2020
5	1701GEX01	Basic Electrical and Electronics Engineering	Skill Development: DC and AC Circuits, Three Phase System, Electrical Machines, Power plant	2019-2020
6	1701GEX02	Engineering Graphics	Skill development:Isometric projection and perspective projections, Sectioning of solids, Development of surfaces	2019-2020
7	1701GEX03	Programming in C	Employability :String Handling Functions, Programs using Strings- Managing I/O Operations	2019-2020
8	1701HS151	Physics and Chemistry Lab -I	Employability / Skill development	2019-2020
9	1701GEX51	Programming in C Lab	Employability / Skill development	2019-2020
10	1701GEX52	Communication Skills Lab	Skill Development: Inter personal Communication, Reading Comprehensions, Writing Skills, Presentation Skills	2019-2020
11	1701MA201	Engineering Mathematics - II	Skill Development: Gradient, divergence and curl, Differential equations with constant coefficients	2019-2020
12	1701PH201	Physics of Engineering Materials	Skill development: Carrier concentration in intrinsic semiconductor, Domain theory, Synthesis of Nanomaterials.	2019-2020
13	1701CH201	Environmental Studies	Employability:Documentation study of local polluted site – Urban / Rural / Industrial / Agricultural.	2019-2020
14	1701GE201	Basic Civil and Mechanical Engineering	Employability :Window and Split type room Air conditioner	2019-2020
15	1702CS201	Programming in C++	Employability:C++ programming, Class, object, Polymorphism &Inheritance, Virtual functions &Templates, File &Exception Handling	2019-2020
16	1701LE201	Communicative English	Skill Development: Basic Language Chunks, Advanced Language Chunks, Writing and Vocabulary Enrichment. <b>ATTESTED</b>	2019-2020
17	1702CS251	Programming in C++ Lab	Employability / Skill development	2019-2020
18	1701HS251	Physics and	Employability / Skill development	2019-2020

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		Chemistry Lab II		
19	1701GEX531	Workshop Practice	Employability / Entrepreneurship / Skill development	
20	MA6351	Transforms and Partial Differential equations	Skill Development: Harmonic Analysis, One dimensional wave equation, Convolution theorem on Fourier Transform	2014-2015
21	CS6301	Programming and Data Structures II	Employability : Implement an array ADT, Implement insert, Perform stack and queue operations	2014-2015
22	CS6302	Database Management Systems	Employability : Entity–Relationship model (E-R model), Query Processing, Transaction recovery, Database connectivity using SQL.	2014-2015
23	CS6303	Computer Architecture	Skill Development: Addressing modes, Pipelining, Hazards, DMA	2014-2015
24	CS6304	Analog and Digital Communication	Skill Development: AM, FM, PM, PAM, PTM, PCM, Huffman coding, Shannon fano coding, CDMA	2014-2015
25	GE6351	Environmental Science and Engineering	Employability / Entrepreneurship / Skill development	2014-2015
26	IT6311	Programming and Data Structures Laboratory II	Employability / Skill development	2014-2015
27	IT6312	Database Management Systems Laboratory	Employability / Skill development	2014-2015
28	IT6313	Digital Communication Laboratory	Employability / Skill development	2014-2015
29	MA6453	Probability and Queueing Theory	Skill development: Moments, Normal distribution, Correlation and Linear Regression, Markov Process, Poisson Process	2014-2015
30	EC6504	Microprocessor and Microcontroller	Employability: Interfacing 8086 with matrix keypad and Seven segment display , Interfacing 8051 with DC and stepper motor	2014-2015
31	CS6402	Design and Analysis of Algorithms	Employability : Selection Sort and Bubble Sort, Merge sort, Quick Sort, Insertion Sort, Heap sort.	2014-2015
32	CS6401	Operating Systems	Employability : Operating System Scheduling Algorithms, Deadlocks, Virtual memory, Demand paging, Page replacement	2014-2015
33	CS6403	Software	Employability : Verification And Validation, System	2014-2015

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		Engineering	Testing And Debugging, / Skill development : COCOMO II	
34	IT6411	Microprocessor and Microcontroller Laboratory	Employability / Skill development	2014-2015
35	IT6412	Operating Systems Laboratory	Employability / Skill development	2014-2015
36	IT6413	Software Engineering Laboratory	Employability / Skill development	2014-2015
37	CS6551	Computer Networks	Employability /Entrepreneurship: TCP/IP Protocol Suite, Routing Techniques, Congestion Control and Resource Allocation	2015-2016
38	IT6501	Graphics and Multimedia	Entrepreneurship: 2D, 3DMultimedia application, Video image animation,Photoshop	2015-2016
39	CS6502	Object Oriented Analysis and Design	Employability /Entrepreneurship: Use Case Modeling , Inheritance , Abstract Classes , Polymorphism	2015-2016
40	IT6502	Digital Signal Processing	Employability:DFT,IDFT,IIR filter,Structures of FIR	2015-2016
41	IT6503	Web Programming	Employability : Web Essentials, Markup Languages, Cascading Style Sheets, JavaScript, Document Object Model, Java Servlets, JSP	2015-2016
42	EC6801	Wireless Communication	Employability:FDMA,TDMA,CDMA,QPSK	2015-2016
43	IT6511	Networks Laboratory	Employability/Skill Development	2015-2016
44	IT6512	Web Programming Laboratory	Employability/Skill Development	2015-2016
45	IT6513	Case Tools Laboratory	Employability/Skill Development/Entrepreneurship	2015-2016
46	CS6601	Distributed Systems	Employability:Network Virtualization ,RMI,Coda	2015-2016
47	IT6601	Mobile Computing	Employability:GSM,GPRS,VANET,Ios	2015-2016
48	CS6659	Artificial Intelligence	Employability:Depth first and Best-first search,Fuzzy reasoning, Expert systems,Robotics.	2015-2016
49	CS6660	Compiler Design	Skill Development:DFA,Parser context free grammars,PDA	2015-2016
50	IT6602	Software Architectures	Employability /Entrepreneurship: Architecture Business cycle,SEI,ACME,SOA	2015-2016
51	GE6757	Total Quality Management	Skill DevelopmentEmployability /Entrepreneurship: PDCA cycle,QFD,TPM,Quality	2015-2016

**ATTESTED**

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52	IT6612	Compiler Laboratory	Skill Development/ Employability	2015-2016
53	IT6611	Mobile Application Development Laboratory	Skill Development/ Employability/ Entrepreneurship	2015-2016
54	GE6674	Communication and Soft Skills - Laboratory Based	Skill Development/ Employability	2015-2016
55	IT6701	Information Management	Employability:Depth first and Best-first search,Fuzzy reasoning, Expert systems,Robotics.	2016-2017
56	CS6701	Cryptography and Network Security	Employability : Attacks,Classical Encryption techniques,Euclid's algorithm,The RSA algorithm	2016-2017
57	IT6702	Data Ware Housing and Data Mining	Employability:Data warehouse,Metadata,OLAP,Data Mining,Association Rule Mining,classification, Prediction	2016-2017
58	CS6703	Grid and Cloud Computing	Entrepreneurship : Overview of Grid Architecture,Introduction to Hadoop Framework,Design of Hadoop file system,SaaS	2016-2017
59	IT6004	Software Testing	Employability : Using Black Bod Approach to Test Case Design, Using White Box Approach to Test design, Unit Test	2016-2017
60	IT6711	Data Mining Laboratory	Skill Development/ Employability	2016-2017
61	IT6712	Security Laboratory	Skill Development/ Employability	2016-2017
62	IT6713	Grid and Cloud Computing Laboratory	Skill Development/ Employability	2016-2017
63	IT6801	Service Oriented Architecture	Employability: DOM,XSL,SOAP,UDDI,SOA Support in J2EE.	2016-2017
64	GE6075	Professional Ethics in Engineering	Skill Development:Human Values, Ethics, workplace responsibilities , Leadership	2016-2017
65	CS6004	Cyber Forensics	Employability : SSL protocol,Firewall ,Creating response tool kit and IR team, Tools: Software / Hardware Tools	2016-2017
66	MG6088	Software Project Management	Entrepreneurship:Risk evaluation ,Stepwise Project planning,Basics of software estimation,Software Configuration management	2016-2017
67	IT6811	Project Work	Skill Development/ Employability/ Entrepreneurship	2016-2017

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