MEMORANDUM OF AGREEMENT

THIS MEMORANDUM OF AGREEMENT is made this 29Th day of November 2013
BETWEEN "THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION
ENGINEERS (HQ)", having its Office at 2, Institutional Area, Lodhi Road
New Delhi- 110003, hereinafter referred to as "IETE" or "The Party of the First Part"
(which term or expression shall unless excluded by or repugnant to the context be
deemed to include its successors-in-office, administrators, authorized representatives) of
the FIRST PART, being represented by its President, Dr. S. Pal, of The Institution of
Electronics and Telecommunication Engineers, having office at 2, Institutional Area,
Lodhi Road, New Delhi- 110003

AND

TECHNO INDIA GROUP, having its Corporate Office & Centre of Excellence at EM-4, Sector-V, Salt Lake City, Kolkata-700091, hereinafter referred to as "TIG" or "The Party of the Second Part" (which term or expression shall unless excluded by or repugnant to the context be deemed to include its successors-in-office, administrators, authorized representatives) of the SECOND PART being represented by its Authorized Representative, Sri Goutam Roychowdhury, the Chairman.

TIG shall recognize the DIPIETE and GradIETE (AMIE) courses for further study at Techno India University / Techno Global University, and other associated/ upcoming Universities of TIG and an approval letter of the respective university in this regard shall be issued to IETE. TIG shall also allow selected IETE students through credit transfer as per national and/or international norms for getting admission in the associated Universities the following different programs to be operated in full time / part time mode (evening classes/ weekend classes/ summer and winter session) -

- 1. B.Tech
- II. M.Tech
- III. M.Phil
- IV. Ph.D.
- V. MBA
- VI. Any other integrated or sole programme as may be deemed fit by both the Parties.

ADDENDUM TO MEMORANDUM OF AGREEMENT

1) This addendum, signed on .2.3.... day of Dec. 2013s supplement to the Memorandum of Agreement made between Institution of Electronics and Telecommunication Engineers, HQ New Delhi (IETE) and Techno India Group, Kolkata (TIG) on 29 Nov 2013.

TERMS & CONDITIONS:

- 2) This addendum is signed to set the eligibility conditions for IETE students pursuing AMIETE/DipIETE courses who are at different stages of the course to transit into the different years of TIG B. Tech/Diploma level courses through exemptions and transfer of credits as per present course structure and syllabi of IETE and TIG. The transition conditions shall be revised on mutual consent as and when there is change in course structure/syllabi of either IETE or TIG or there a change in regulatory norm / statutory provision.
- 3) Transition conditions for AMIETE in Electronics & Telecommunication (AMIETE-ET) to TIG B. Tech in Electronics & Communication (B. Tech ECE) are given in **Appendix-'A'** Para I, II, III and IV of this addendum, respectively for different stages of transition.
- 4) Transition conditions for AMIETE in Computer Science / Information Technology (AMIETE-CS/IT) to TIG B. Tech in Computer Science & Engineering (B. Tech CSE) are given in **Appendix-'B'** Para I, II, III and IV of this addendum, respectively for different stages of transition.
- 5) Subject equivalency structure for AMIETE in Electronics & Telecommunication (AMIETE-ET) versus TIG B. Tech in Electronics & Communication (B. Tech CSE) is given **Appendix-'C'** of this addendum.
- 6) Subject equivalency structure for AMIETE in Computer Science / Information Technology (AMIETE-CS/IT) versus TIG B. Tech in Computer Science & Engineering (B. Tech CSE) is given **Appendix-'D'** of this addendum.
- 7) Transition conditions for DipIETE in Electronics & Telecommunication (DipIETE-ET) to TIG Diploma in Electronics & Communication (Diploma ECE) are given in **Appendix-'E'** Para I, II, III and IV of this addendum, respectively for different stages of transition.
- 8) Transition conditions for DipIETE in Computer Science (DipIETE -CS) to TIG Diploma in Computer Science & Engineering (Diploma CSE) are given in Appendix-'F' Para I, II, III and IV of this addendum, respectively for different stages of transition.

- 9) Subject equivalency structure for DipIETE in Electronics & Telecommunication (DipIETE -ET) versus TIG Diploma in Electronics & Communication (Diploma ECE) is given **Appendix-'G'** of this addendum.
- 10) Subject equivalency structure for AMIETE in Computer Science (DipIETE CS) versus TIG Diploma in Computer Science & Engineering (Diploma CSE) is given **Appendix-'H'** of this addendum.
- 11) The TIG shall give 40 % fee exemption to students transiting from IETE to TIG.
- 12) The TIG shall re-design the concise syllabi of some of the subjects which are combined.
- 13) The TIG shall balance the credits such that final Degree/Diploma issued to the students transiting from IETE is acceptable by all the Government/Private Universities and Organisations for the purpose of employment and higher education.
- 14) The TIG shall include the subjects along with their credits that the student has passed at IETE but are not the part of the TIG course structure while issuing the final marks sheet to the student.
- 15) The TIG shall provide placement assistant to all the students transiting from IETE to TIG, at par with the directly admitted students of TIG.
- 17) AMIETE students transiting into B. Tech course of TIG shall have to apply for life membership on completion of the course by paying the requisite fee applicable at that time. TIG shall ensure and confirm to IETE before awarding the degree to these students and equal number of TIG original students also to be made associate members of IETE.

IETE (AMIETE-ET) to TIU (B. Tech - ECE) Transition Scheme

I Passed Section – A, Part – I of AMIETE (ET) stream

Transition into TIU B. Tech - ECE

- 1. Gets admission in 2nd year (3rd Semester) B. Tech ECE
- 2. Will have to pass following courses of the 1st year during 2nd year

S. No.	Course Code	Course Title	To be studied in
		THEORY	
a.	TIUFY-101	Career Advancement – Skill Development – I & II	3 rd semester
b.	TIUFY-202	Mathematics-II	4 th Semester
		PRACTICAL	
a.	TIUFY-296	Programming in C Lab	3 rd semester
b.	TIUFY-295	Basic Electrical Engineering Lab & Simulation	4 th semester

3. Will get exemption in the following courses of 2nd & 3rd year of TIU since these have already been studied in Section–A, Part-I of IETE (AMIETE-ET)

	TIU Courses	Equivalent IETE Courses		
Course code	Course Name	Sub Code	Sub Name	
	TH	EORY		
TIUECE-301	Semiconductor Devices	AE53/AE103	Electronic Devices & Circuits	
TIUECE-401	Analog Electronic Circuits	AE53/AE103	Electronic Devices & Circuits	
HUECE-401		AE54/AE104	Linear ICs & Digital Electronics	
TIUECE-402	Digital Electronics & Logic Design	AE54/AE104	Linear ICs & Digital Electronics	
TIUECE-602	Digital Signal Processing	AE77/AE121	Digital Signal Processing (Elective)	
	PRA	CTICAL		
TIUECE-391	Semiconductor Devices Lab	AE91/AE141	Analog Electronics Lab	
TIUECE-491	Analog Circuits Lab	AE91/AE141	Analog Electronics Lab	

4. Will get exemption in the equivalent courses as mentioned in Course Equivalency structure of AMIETE-ET VS TIU-ECE (Appendix-C) of Section – A, Part – II, if passed at IETE, even though Section-A Part-II not completed fully. The IETE will provide the passing certificate of such courses to the students.





5. The corresponding credits earned at IETE will be carried forward to TIU.

II Passed Section – A, Part – I & II of AMIETE (ET) stream

Transition into TIU B. Tech - ECE

- 1. Gets admission in 3rd year (5th Semester) B. Tech ECE
- 2. Will have to pass following courses of the 1st & 2nd year during 3rd and 4th year

S. No.	Course Code	Course Title	To be studied in
		THEORY	
a.	TIUFY-101	Career Advancement – Skill Development – I to IV	5 th Semester
b.	TIUMTH-302	Engineering Mathematics – III	5 th Semester
C.	TIUECS-401	Data Structures & Algorithms through C	5 th Semester
d.	TIUMTH-306	Probability and Statistics	6 th Semester
		PRACTICAL	•
a.	TIUFY-296	Programming in C and Data Structure Lab	5 th Semester
b.	TIUFY-295	Basic Electrical Engineering, Simulation & Network Theory Lab	6 th Semester
c.	TIUECE-493	Measurement Lab	7 th Semester

3. Will get exemption in the following courses of 3rd year of TIU since these have already been studied in Section–A, Part-I & II of IETE (AMIETE-ET)

T	IU Courses	Equivalent IETE Courses			
Course code	Course Name	Sub Code	Sub Name		
	THEORY				
TIUECE-501	Control System	AE61/AE109	Control Engineering		
TIUECE-502	Microprocessor & Microcontroller	AE66/AE108	Microprocessors & Microcontrollers		

- 4. Will get exemption in the equivalent courses as mentioned in Course Equivalency structure of AMIETE-ET VS TIU-ECE (Appendix-C) of Section B, Part I, if passed at IETE, even though Section-B Part-I not completed fully. The IETE will provide the passing certificate of such courses to the students.
- 5. The corresponding credits earned at IETE will be carried forward to TIU.



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III Passed Section-A, Part-I & II and Section-B, Part-I of AMIETE (ET) stream

Transition into TIU B. Tech - ECE

- 1. Gets admission in 4th year (7th Semester) B. Tech ECE
- 2. Will have to pass following courses of the 1st, 2nd & 3rd year during 4th year

S. No.	Course Code	Course Title	To be studied in
		THEORY	
a.	TIUFY-101	Career Advancement – Skill Development – I to VI	7 th Semester
b.	TIUMTH-302	Engineering Mathematics – III	7 th Semester
c.	TIUECS-401	Data Structures & Algorithms through C	7 th Semester
d.	TIUECE-601	Digital Communication	7 th Semester
e.	TIUMTH-306	Probability and Statistics	8 th Semester
f.	TIUECE-602	Digital Signal Processing	8 th Semester (if not studied as Elective)
g.	TIUECE-603	Computer Networking	8 th Semester
382		PRACTICAL	
a.	TIUFY-295 & TIUCSE-392	Basic Electrical Engineering, Simulation & Network Theory Lab	7 th Semester
b.	TIUECS-491	Programming in C and Data Structure Lab	7 th Semester
c.	TIUECE-493	Measurement Lab	7 th Semester
d.	TIUECE-594 & 691	Analog & Digital Communication Lab	7 th Semester
e.	TIUECE-591	Control System Lab	8 th Semester
f.	TIUECE-593	Antenna Lab	8 th Semester
g.	TIUECE-692	DSP Lab	8 th Semester
h.	TIUECE-693	Computer Networking Lab	8 th Semester

3. Will get exemption in the following courses of 4th year of TIU since these have already been studied in Section–A, Part-I & II and Section-B Part-I of IETE (AMIETE-ET).

TIU Courses Equivalent IETE Courses

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Course code	Course Name		Sub Code	Sub Name
	T	HEO	RY	
TIUECE-704 Elective-I	TIUECE-704.1 (Telecommunication Engineering)		AE64/AE115	Telecommunication Switching Systems
	TIUECE-704.5 (Embedded Systems)		AE68/AE117	Embedded Systems Design

- 4. Will get exemption in the equivalent courses as mentioned in Course Equivalency structure of AMIETE-ET VS TIU-ECE (Appendix-C) of Section B, Part II, if passed at IETE, even though Section-B Part-II not completed fully. The IETE will provide the passing certificate of such courses to the students.
- 5. The corresponding credits earned at IETE will be carried forward to TIU.

IV Passed Section – A & B of AMIETE (ET) Completely

Transition into TIU B. Tech - ECE

Gets additional B. Tech Degree in Electronics & Communication from TIU after doing one semester (06 Months) bridge course comprising following course:

S. No.	Course Code	Course Title			
	THEORY				
a.	TIUFY-101	Career Advancement – Skill Development – I to VIII			
b.	TIUMTH-302	Engineering Mathematics – III			
c.	TIUMTH-306	Probability and Statistics			
d.	TIUECS-401	Data Structures & Algorithms through C			
e.	TIUECE-602	Digital Signal Processing (if not studied as Elective)			
f.	TIUECE-801	Advanced Communication (if not studied as Elective)			
g.	TIUECE-802	VLSI Design (if not studied as Elective)			
		PRACTICAL			
a.	TIUFY-295 &	Basic Electrical Engineering, Simulation & Network			
	TIUCSE-392	Theory Lab			
b.	TIUFY-206 &	Programming in C and Data Structure Lab			
	TIUECS-491				
c.	TIUECE-493	Measurement Lab			
d.	TIUECE-692	DSP & Control System Lab			
e.	TIUECE-693	Computer Networking Lab			
f.	TIUECE-791 &	RF, Microwave & Antenna Lab			
8	593	Ann. 10			
g.	TIUECE-891	VLSI Design Lab			
	SESSIONAL				
a.	TIUFY-181	Entrepreneurship Skill Development – I to VIII			





IETE (AMIETE-CS/IT) to TIU (B.Tech - CSE) Transition Scheme

I Passed Section – A, Part – I of AMIETE (CS/IT) stream

Transition into TIU B.Tech - CSE

- 1. Gets admission in 2nd year (3rd Semester) B. Tech CSE
- 2. Will have to pass following courses of the 1st year during 2nd, 3rd and 4th year

S. No.	Course Code	Course Title	To be studied in			
	THEORY					
a.	TIUFY-101	Career Advancement – Skill Development – I & II	3 rd Semester			
b.	TIUFY-202	Mathematics-II	4 th Semester			

3. Will get exemption in the following courses of 2nd & 3rd year of TIU since these have already been studied in Section–A, Part-I of IETE (AMIETE-CS)

TIU	J Courses	Equivalent IETE Courses		
Course code	Course Name	Sub Code	Sub Name	
		THEORY		
TIUECE-304	Switching Circuits And Logic Design	AC53&54/AT53&54/AC103/AT103	Analog & Digital Electronics **	
TIUCSE-305	Data Structure & Algorithms	AC52/AT52/AC104/AT104	Data Structures with C & C++	
TIUCSE -306	Computer Organization & Architecture	AC58/AT58/AC106/AT106	Computer Organization	
TIUCSE-404	Object Oriented Programming and Design-I	AC55/AT55/AC105/AT105	Object Oriented Programming with C++	
TIUCSE-505	Object Oriented Programming and Design-II	AC55/AT55/AC105/AT105	Object Oriented Programming with C++	

- 4. Will get exemption in the equivalent courses as mentioned in Course Equivalency structure of AMIETE-CS/IT VS TIU-CSE (Appendix-D) of Section A, Part II, if passed at IETE, even though Section-A Part-II not completed fully. The IETE will provide the passing certificate of such courses to the students.
- 5. The corresponding credits earned at IETE will be carried forward to TIU.



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II Passed Section – A, Part – I & II of AMIETE (CS/IT) stream

Transition into TIU B. Tech - CSE

- 1. Gets admission in 3rd year (5th Semester) B. Tech CSE
- 2. Will have to pass following courses of the 1st & 2nd year during 3rd and 4th year

S. No.	Course Code	Course Title	To be studied in			
	THEORY					
a.	TIUFY-101	Career Advancement – Skill Development – I to IV	5 th Semester			
b.	TIUMTH-302	Discrete Structure	5 th Semester			
c.	TIUCSE-405	Design and Analysis of Algorithms	5 th Semester			
d.	TIUMTH-402	Computer Based Statistical And Numerical Techniques	6 th Semester			
e.	TIUCSE-406	Automata Theory and Logic	8 th Semester			
		PRACTICAL				
a.	TIUCSE-396 & TIUECE-493	Computer Organization & Architecture and Microprocessor and Microcontroller Lab	5 th Semester			
b.	TIUCSE-494 & 595	Object Oriented Programming And Design-I & II Lab	5 th Semester			
C.	TIUCSE -495	Design and Analysis of Algorithms Lab	5 th Semester			
d.	TIUMTH-492	Computer Based Statistical And Numerical Techniques Lab	6 th Semester			

3. Will get exemption in the following courses of 2nd & 3rd year of TIU since these have already been studied in Section–A, Part-I & II of IETE (AMIETE-CS)

TIU Courses		Equivalent IETE Courses		
Course code Course Name		Sub Code	Sub Name	
THEORY				
TIUCSE-502	Database Management Systems	AC61/AT61/AC112/AT112	Database Management	





	×		Systems
TIUCSE-503	Operating Systems	AC59/AT59/AC110/AT110	Operating Systems & Systems Software
TIUCSE-504	Computer Graphics and Multimedia Systems	AC60/AT60/AC111/AT111	Computer Graphics & Visualization
TIUCSE-505	Object Oriented Programming and Design-II	AC55/AT55/AC105/AT105	Object Oriented Programming with C++
	PF	RACTICAL	
TIUCSE-592	Database Management System Lab	AC92/AT92/AC142/AT142	DBMS Lab

- 4. Will get exemption in the equivalent courses as mentioned in Course Equivalency structure of AMIETE-CS/IT VS TIU-CSE (Appendix-D) of Section B, Part I, if passed at IETE, even though Section-B Part-I not completed fully. The IETE will provide the passing certificate of such courses to the students.
- 5. The corresponding credits earned at IETE will be carried forward to TIU.

III Passed Section-A, Part-I & II and Section-B, Part-I of AMIETE (CS/IT)

Transition into TIU B. Tech - CSE

- 1. Gets admission in 4th (7th Semester) year B. Tech CSE
- 2. Will have to pass following courses of the 1^{st} , 2^{nd} & 3^{rd} year during 4^{th} year

S. No.	Course Code	Course Title	To be studied in			
		THEORY				
a.	TIUFY-101	Career Advancement – Skill	7 th semester			
		Development – I to VI				
b.	TIUCSE-506	Compiler Design	7 th semester			
c.	TIUCSE-605	Web Technology	7 th semester			
d.	THIMTH 402	Computer Based Statistical And	8 th semester			
	TIUMTH-402	Numerical Techniques				
e.	TIUCSE-406	Automata Theory and Logic	8 th semester			
f.	TIUCSE-604	Computer Networks	8 th semester			
	PRACTICAL					
a.	TIUCSE-396	Computer Organization & Architecture	7 th semester			





	& TIUECE- 493	and Microprocessor and Microcontroller Lab	
b.	TIUCSE-494 & 595	Object Oriented Programming And Design-I & II Lab	7 th semester
c.	TIUCSE-593	Operating Systems Lab	7 th semester
d.	TIUCSE-594	Computer Graphics and Multimedia Systems Lab	7 th semester
e.	TIUCSE-695	Web Technology Lab	7 th semester
f.	TIUMTH-492	Computer Based Statistical And Numerical Techniques Lab	8 th semester
g.	TIUCSE-692	Operation Research and Optimization Techniques Lab	8 th semester
h.	TIUCSE-693	Software Engineering Lab	8 th semester
i.	TIUECE-694	Computer Networks and System Administration Lab	8 th semester

- 3. Will get exemption in the equivalent courses as mentioned in Course Equivalency structure of AMIETE-CS/IT VS TIU-CSE (Appendix-D) of Section B, Part II, if passed at IETE, even though Section-B Part-II not completed fully. The IETE will provide the passing certificate of such courses to the students.
- 4. The corresponding credits earned at IETE will be carried forward to TIU.

IV Passed Section – A & B of AMIETE – CS completely

Transition into TIU B. Tech - CSE

Gets additional B. Tech Degree in Computer Science & Engineering from TIU after doing one semester (06 Months) bridge course comprising following course:

S. No.	Course Code	Course Title
		THEORY
a.	TIUFY-101	Career Advancement – Skill Development – I to VIII
b.	TIUMTH-402	Computer Based Statistical And Numerical Techniques
c.	TIUCSE-605	Web Technology
d.	d. TIUHU-802 Engineering Economics and Financial Accounting	
e.	TIUHU-803	Managerial Ethics and Corporate Governance
f.	TIUCSE-804	Elective –IV
		PRACTICAL
a.	a. TIUCSE-396 Computer Organization & Architecture Lab	
b. TIUMTH-492 Computer Based Statistical And Numerical Techniques		Computer Based Statistical And Numerical Techniques
Lab		





c.	TIUCSE-593	Operating Systems Lab
d.	TIUCSE-594	Computer Graphics and Multimedia Systems Lab
e.	TIUCSE-692	Operation Research and Optimization Techniques Lab
f.	TIUCSE-693	Software Engineering Lab
g.	TIUECE-694	Computer Networks and System Administration Lab
h.	TIUCSE-695	Web Technology Lab
i.	TIUCSE-793	Artificial Intelligence Lab
		SESSIONAL
a.	TIUFY-181	Entrepreneurship Skill Development – I to VIII





<u>Appendix – 'C'</u> (Para 5 of Addendum refers)

Course Equivalency AMIETE –ET Vs TIU - B. Tech - ECE

AMIETE - ET			TIU - B. Tech - ECE		
S. No.	Sub Code	Sub Title	Sub Code	Sub Title	
1	AE51/ AE101	Engineering Mathematics-I	TIUFY-103	Mathematics – I	
2	AE102	Computer Concepts & C Programming	TIUFY-105, TIUFY-206	IT Tools and Applications , Problem Solving and Programming Using C	
3	AE53/ AE103	Electronic Devices & Circuits	TIUFY-205, TIUECE-301, TIUECE-402	Basic Electrical and Electronics Engineering, Semiconductor Devices, Digital Electronics & Logic Design	
4	AE54/ AE104	Linear ICs & Digital Electronics	TIUECE-402	Digital Electronics & Logic Design	
5	AE55/ AE105	Principles of Electrical Engineering	TIUFY-205	Basic Electrical and Electronics Engineering	
6	AE58/ AE106	Materials & Processes			
7	AE141	Analog Electronics Lab	TIUECE-391	Semiconductor Devices Lab	
8	AE56/ AE107	Engineering Mathematics-II	TIUFY-202	Mathematics –II	
9	AE66/ AE108	Microprocessors & Microcontrollers	TIUECE-502	Microprocessor & Microcontroller	
10	AE61/ AE109	Control Engineering	TIUECE-501	Control System	
11	AE59/ AE110	Circuit Theory & Design	TIUECE-302	Network Theory	
12	AE60/ AE111	Instrumentation & Measurements	TIUECE-404	Electronic Measurement & Instrumentation	
13	AE57/ AE112	Signals & Systems	TIUECE-403	Signals &Systems	
14	AE142	Digital Electronic Lab	TIUECE-492	Digital Electronics Lab	
15	AE137	Communication Skills & Technical Writing (Oral)	TIUFY-102	English For Communication	
16	AE138	Communication Skills & Technical Writing (Written)	TIUFY-102	English For Communication	
17	AE62/ AE113	Operations Research & Engineering Management	TIUECE-605	Industrial Management	
18	AE63/ AE114	Electromagnetic & Radiation Systems	TIUECE-504	EM Theory & Antenna	





19	AE64/ AE115	Telecommunication Switching Systems	TIUECE- 704.1	Telecommunication Engineering
20	AE65/ AE116	Analog Communication	TIUECE-505	Analog Communication
21	AE68/ AE117	Embedded Systems Design	TIUECE- 704.5	Embedded Systems
22		Elective-I(From Group A)	**	
23	AE143	μP & C Programming Lab	TIUFY-296, TIUECE-592	Programming in C Lab, Microprocessor & Microcontroller Lab
24	AE67/ AE118	Digital Communication	TIUECE-601	Digital Communication
25	AE71/ AE119	Data Communication & Computer networks	TIUECE-603	Computer Networking
26	AE72/ AE120	Microwave Theory & Techniques	TIUECE-701	RF & Microwave Engineering
27		Elective –II (from Group B)		
28		Elective –III (from Group C)		
29	AE94/ AE144	Analog & Digital Communications Lab	TIUECE-594, TIUECE-691	Analog Communication Lab, Digital Communication Lab
30	AE69/ AE135	Project Work	TIUECE-782 TIUECE-882	Final Year Project, Final Year Project
31	AE70/ AE136	Seminar	TIUECE-783 TIUECE-883	Seminar, Seminar
32	AE77/ AE121	Digital Signal Processing	TIUECE-602	Digital Signal Processing
33	AE74/ AE122	VLSI Design	TIUECE-802	VLSI Design
34	AE123	Power Electronics	TIUECE-703	Power Electronics
35	AE124	Operating Systems	TIUECE-70.4	Operating Systems
36	AE73/ AE125	Information Theory & Coding		
37	AE78/ AE126	Radar & Navigational Aids	· ·	
38	AE127	Wireless & Mobile Systems		
39	AE128	Internet Applications		
40	AE129	Cyber Crimes & IPR		
41	AE75/ AE130	Optoelectronics & Communication	TIUECE-702	Optoelectronic Devices Circuits
42	AE131	Advanced Communication Systems	TIUECE-801	Advanced Communication
43	AE132	Multimedia Systems		
44	AE133	DSP Algorithms and Architecture		





Appendix – 'D'
(Para 6 of Addendum refers)

Course Equivalency AMIETE –CS/IT Vs TIU – B. Tech - CSE

	AMI	ETE - CS/IT	TIU – B. Tech – CSE		
S. N	Sub Code	Sub Title	Sub Code	Sub Title	
1	AC51/AT51/AC 101/AT101	Engineering Mathematics-I	TIUFY-101	Mathematics – I	
2	AC52/AC102	Computer Concepts & C Programming	TIUFY-105, TIUFY-206	IT Tools and Applications, Problem Solving and Programming Using C	
3	AC53/AC103	Analog & Digital Electronics	TIUFY-205, TIUECE-304	Basic Electrical and Electronics Engineering, Switching Circuits And Logic Design	
4	AC52/AC104	Data Structures with C & C++	TIUCSE-305	Data Structure & Algorithms	
5	AC55/AT55/AC 105/AT105	Object Oriented Programming with C++	TIUCSE-404, TIUCSE-505	Object Oriented Programming and Design-I, Object Oriented Programming and Design-II	
6	AC58/AT58/AC 106/AT106	Computer Organization	TIUCSE -306	Computer Organization & Architecture	
7	AC91/AT91/AC 141/AT141	Data Structures with C & C++ Lab	TIUCSE-395	Data Structure & Algorithm Lab	
8	AC56/AT56/AC 107/AT107	Engineering Mathematics-II	TIUFY-202	Mathematics-II	
9	AC66/AT66/AC 108/AT108	Microprocessors & Microcontrollers	TIUECE-403	Microprocessor and Microcontroller	
10	AC109	UNIX & Shell Programming			
11	AC59/AT59/AC 110/AT110	Operating Systems & Systems Software	TIUCSE-503	Operating Systems	
12	AC60/AT60/AC 111/AT111	Computer Graphics & Visualization	TIUCSE-504	Computer Graphics and Multimedia Systems	
13	AC61/AT61/AC 112/AT112	Database Management Systems	TIUCSE-502	Database Management Systems	
14	AC92/AT92/AC 142/AT142	DBMS Lab	TIUCSE-592	Database Management System Lab	
15	AC99/AT99/AC 137/AT138	Communication Skills & Technical Writing (Oral)	TIUFY-102	English for Communication	
16	AC99/AT99/AC 137/AT138	Communication Skills & Technical Writing (Written)	TIUFY-102	English for Communication	
17	AC62/AT62/AC 113/AT113	Operations Research & Engineering Management	TIUMTH-602	Operation Research and Optimization Techniques	
18	AC63/AT63/AC 114/AT114	Software Engineering	TIUECE-603	Software Engineering	
19	AC64/AT64/AC 115/AC115	Design & Analysis of Algorithms	TIUCSE-405	Design and Analysis of Algorithms	





20	AC65/AC116	Discrete Structures	TIUMTH-302	Discrete Structures
21	AC72/AT72/AC 117/AT117	Linux Internals		
22		Elective-I(From Group A)		
23	AC93/AT93/AC 143/AT143	Analysis & Design of Algorithms Lab	TIUCSE -495	Design and Analysis of Algorithms Lab
24	AC118/AT118	Software Architecture	Ĭ.	
25	AC67/AT67/AC 119/AT119	Data Communication & Computer networks	TIUCSE-604	Computer Networks
26	AC68/AC120	Finite Automata & Formal Languages	TIUCSE-406	Automata Theory and Logic
27		Elective –II (from Group B)		
28		Elective –III (from Group C)	-	
29	AC94/AT94/AC 144/AT144	μP & μC Lab	TIUECE-493	Microprocessor and Microcontroller Lab
30	AC69/AT69/AC 135/AT135	Project Work	TIUCSE-796,	Project Synopsis and
			TIUCSE-896	Evaluation , Final Thesis/Dissertation
31	AC70/AT70/AC 136/AT136	Seminar	TIUCSE-792	Seminar
32	AC73/AT73/AC 121/AT121	C # and Net		
33	AC122	VLSI Design	TIUCSE-804	Elective –IV
34	AC74/AT74/AC 123/AT123	Artificial Intelligence & Neural Networks	TIUCSE-703	Artificial Intelligence
35	AC71/AT71/AC 124/AT124	Unix Systems Programs		
36	AC125	Software Testing		
37	AC126	Mobile Applications Development		
38	AC127	Wireless & Mobile Systems†		
39	AC75/AT75/AC 128/AT128	Internet Applications		
40	AC129	Cyber Crimes & IPR		
41	AC130	Compiler Design	TIUCSE-506	Compiler Design
42	AC131	Cloud computing	TIUCSE-804	Elective –IV
43	AC76/AT76/AC 132/AT76	Cryptography & Network Security	TIUHU-702	Cryptography and Network Security
44	AC78/AC133	Advance Microprocessors		





(Para 7 of Addendum refers)

IETE (DipIETE-ET) to TIU (Diploma - ECE) Transition Scheme

I Passed Section – A, Part – I & II of DipIETE -ET

Transition into TIU Diploma- ECE

- 1. Gets admission in 2nd (3rd Semester) year Diploma -ECE
- 2. Will have to pass following courses of the 1^{st} year during 2^{nd} and 3^{rd} year at TIU

S. No.	Course Code	Course Title	To be studied in
		THEORY	
a	TIUBSD-101 & 201	Career Advancement –Skill	Semester-3
		Development - I & II	
b	TIUBSP-104	Physics-I	Semester-3
С	TIUBSC-105 & 203	Chemistry I & II	Semester-3
d	TIUBPM-106 & 204	Engineering Mechanics I & II	Semester-4
		PRACTICAL	
a	TIUBSP-194	Physics Lab	Semester-3
b	TIUBSC-195	Chemistry Lab	Semester-3
С	TIUBPM-297	Engineering Workshop	Semester-4
		SESSIONAL	
a	TIUCSL- 114, 281	Entrepreneurship Skill	Semester-3
		Development - I & II	

3. Will get exemption in the following courses of 2nd & 3rd year of TIU since these have already been studied in Section–A, Part-I & II of IETE (DipIETE-ET)

	TIU Courses	Equivalent IETE Courses	
Course code Course Name		Sub Code	Sub Name
		THEORY	
TIUDCS-303	Programming in C	DE53/DE103	Computer Fundamentals and C Programming
TIUDEC-301	Network Theory	DE57/DE107	Networks & Transmission Lines
TIUDEC-302	Analog Electronics-I	DE56/DE106	Analog Electronics
TIUDEC-303	Digital Electronics	DE58/DE108	Logic Design
TIUDEC-402	Analog Electronics-II	DE56/DE106	Analog Electronics
	, <u> </u>	RACTICAL	1
TIUDCS-393	Programming in C Lab	DE91/DE141	C Programming Lab
TIUDEC-392	Analog Circuit Lab	DE92/DE142	Analog Electronics Lab





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TIUDEC-493	Analog Electronics-II Lab	DE92/DE142	Analog Electronics Lab

- 4. Will get exemption in the equivalent courses as mentioned in Course Equivalency structure of DipIETE-ET VS TIU-Diploma ECE (Appendix-G) of Section B, Part I, if passed at IETE, even though Section-B Part-I not completed fully. The IETE will provide the passing certificate of such courses to the students.
- 5. The corresponding credits earned at IETE will be carried forward to TIU.

II Passed Section-A, Part-I & II and Section-B, Part-I of DipIETE - ET

Transition into TIU Diploma- ECE

- 1. Gets admission in 3rd (5th Semester) year Diploma ECE
- 2. Will have to pass following courses of the 1st & 2nd year during 3rd year at TIU

S. No.	Course Code	Course Title	To be studied in
		THEORY	
a	TIUBSD-101, 201,	Career Advancement –Skill	Semester-5
	301, 401	Development - I to IV	
b	TIUBSP-104	Physics-I	Semester-5
С	TIUBSC-105 & 203	Chemistry I & II	Semester-5
d	TIUBPM-106 & 204	Engineering Mechanics I & II	Semester-6
e	TIUDEC-404	Consumer Electronics	Semester-6
		PRACTICAL	
a	TIUBSP-194	Physics Lab	Semester-5
b	TIUBSC-195	Chemistry Lab	Semester-5
С	TIUDEC-492	Microprocessor Lab	Semester-6
d	TIUDEC-494	Consumer Electronics Lab	Semester-6
		SESSIONAL	
a	TIUCSL-114, 281,	Entrepreneurship Skill Development	Semester-3
	381, 481	- I to IV	

3. Will get exemption in the following courses of 3rd year of TIU since these have already been studied in Section–A, Part-I & II and Section-B Part-I of IETE (DipIETE-ET).

	TIU Courses	Eq	uivalent IETE Courses
Course code Course Name		Sub Code	Sub Name
	THE	CORY	
TIUDEC-502	Electronic Measurement	DE59/DE109	Electronic Instrumentation &
			Measurements
TIUDEC-503	Microcontroller and Embedded	DE60/DE111	Microprocessors &





	Systems		Microcontrollers
TIUDEC-603	Instrumentation and Control	DE59/DE109	Electronic Instrumentation &
			Measurements

- 4. Will get exemption in the equivalent courses as mentioned in Course Equivalency structure of DipIETE-ET VS TIU Diploma-ECE (Appendix-G) of Section B, Part II, if passed at IETE, even though Section-B Part-II not completed fully. The IETE will provide the passing certificate of such courses to the students.
- 5. The corresponding credits earned at IETE will be carried forward to TIU.

III Passed Section – A & B of DipIETE - ET Completely

Transition into TIU Diploma- ECE

Gets additional Diploma in Electronics & Communication from TIU after doing one semester (06 Months) bridge course comprising following course:

S. No.	Course Code	Course Title
		THEORY
a	TIUBSD-101, 201, 301, 401, 501, 601	Career Advancement –Skill Development - I to VI
b	TIUBSP-104	Physics-I
С	TIUBSC-105 & 203	Chemistry I & II
d	TIUBPM-106 & 204	Engineering Mechanics I & II
е	TIUDEC-404	Consumer Electronics
f	TIUDEC-504 & 602	Industrial Electronics I & II
g	TIUDEC-505	Elective –I (If not studied as Elective-I at IETE)
h	TIUDEC-604	Elective –II
		PRACTICAL
a	TIUDEC-492, 592	Microprocessor, Microcontroller and Embedded Systems Lab
b	TIUDEC-494, 593	Consumer and Industrial Electronics Lab
С	TIUDEC-691	Communication Engineering-III Lab
d	TIUDEC-692	Measurement Instrumentation and Control Lab
e	TIUDEC-693	Elective –II Lab
		SESSIONAL
a	TIUCSL-114, 281, 381, 481, 581, 681	Entrepreneurship Skill Development - I to VI



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IETE (DipIETE-CS) to TIU (Diploma-CSE) Transition Scheme

Passed Section - A, Part - I & II of DipIETE -CS I

Transition into TIU Diploma - CSE

- 1. Gets admission in 2nd year (3rd Semester) Diploma CSE
- 2. Will have to pass following courses of the 1st year during 2nd and 3rd year

S. No.	Course Code	Course Title	To be studied in		
3 - 2 2	THEORY				
a	TIUBSD-101 & 20	Ol Career Advancement –Skill	Semester-3		
		Development - I & II			
b	TIUBSP-104	Physics-I	Semester-3		
С	TIUBSC-105 & 20	O3 Chemistry I & II	Semester-3		
d	TIUBPM-106 & 2	04 Engineering Mechanics I & II	Semester-4		
		PRACTICAL			
a	TIUBSP-194	Physics Lab	Semester-3		
b	TIUBSC-195	Chemistry Lab	Semester-3		
С	TIUBPM-297	Engineering Workshop	Semester-4		
	SESSIONAL				
a	TIUCSL- 114, 281	Entrepreneurship Skill	Semester-3		
		Development - I & II			

3. Will get exemption in the following courses of 2nd & 3rd year of TIU since these have already been studied in Section-A, Part-I & II of IETE (DipIETE-CS)

TIU Courses		Equivalent IETE Courses	
Course code Course Name		Sub Code	Sub Name
	TH	EORY	
TIUDCS-303	Programming in C	DC53/DC103	Computer Fundamentals and C
110DCS-303	Programming in C	DC33/DC103	Programming
TIUDCS-305	Digital Logic Design	DC/58/DC108	Logic Design
TIUDCS-306	Computer Organisation	DC57/DC107	Computer Organisation
TIUDCM-402	C ' ' CI 'II	DC00/DC120	Communication Skills & Technical
110DCW1-402	Communication Skills	DC99/DC138	Writing
TIUDCS-403	Data Structures and Algorithms	DC/54/DC104	Data Structure
TIUDCS-406	Electronics devices and circuits	DC/52/DC102	Fundamentals of Electrical &
	Electronics devices and circuits	DC/52/DC102	Electronics





TIUDCS-503	Computer Architecture	DC57/DC107	Computer Organisation
TIUDCS-504	Object Oriented Methodologies	DC56/DC106	Object Oriented Programming with C++
	PRA	CTICAL	
TIUDCS-394	Programming in C Lab	DC91/DC141	C Programming Lab
TIUDCM-491	Communication Skills Lab	DC98/DC137	Communication Skills & Technical Writing – viva
TIUDCS-492	Data Structure Lab in C	DC91/DC141	C & Data Structure Lab
TIUDCS-594	Object Oriented Programming Lab (C++)	DC92/DC142	OOPS Lab

- 4. Will get exemption in the equivalent courses as mentioned in Course Equivalency structure of DipIETE-CS VS TIU-Diploma CSE (Appendix-H) of Section B, Part I, if passed at IETE, even though Section-B Part-I not completed fully. The IETE will provide the passing certificate of such courses to the students.
- 5. The corresponding credits earned at IETE will be carried forward to TIU.

II Passed Section—A, Part—I & II and Section—B, Part—I of DipIETE (CS)

Transition into TIU Diploma-CSE

- 1. Gets admission in 3rd year (5th Semester) Diploma CSE
- 2. Will have to pass following courses of the 1st & 2nd year during 3rd year at TIU

S. No.	Course Code	Course Title	To be studied in
		THEORY	
a	TIUBSD-101, 201,	Career Advancement –Skill	Semester-5
	301, 401	Development - I to IV	
b	TIUBSP-104	Physics-I	Semester-5
С	TIUBSC-105 & 203	Chemistry I & II	Semester-5
d	TIUBPM-106 & 204	Engineering Mechanics I & II	Semester-5
e	TIUDMT-303	Discrete Mathematics	Semester-5
f	TIUDCS-405	Numerical Methods	Semester-6
g	TIUDCS-407	Data Communication and Computer	Semester-6
		Networks	
		PRACTICAL	
a	TIUBSP-194	Physics Lab	Semester-5
b	TIUBSC-195	Chemistry Lab	Semester-5
С	TIUDCS-395	Digital Logic Design Lab	Semester-5
d	TIUDCS-493	Computer Networks Lab	Semester-6
e	TIUDCS-494	Numerical Methods Lab	Semester-6





		SESSIONAL	
a	TIUCSL-114, 281,	Entrepreneurship Skill Development	Semester-5
	381, 481	- I to IV	

3. Will get exemption in the following courses of 3rd year of TIU since these have already been studied in Section–A, Part-I & II and Section-B Part-I of IETE (DipIETE-CS)

TIU Courses		E	Equivalent IETE Courses			
Course code	Course Name	Sub Code	Sub Name			
	THEORY					
TIUDCS-503	Computer Architecture	DC57/DC107	Computer Organisation			
TIUDCS-504	Object Oriented Methodologies	DC56/DC106	Object Oriented Programming with C++			
TIUDCS-505	Operating Systems	DC61/DC110	Operating Systems & Systems Software			
TIUDCS-506	Database Management Systems	DC62/DC112	Database Management Systems			
TIUDCS-507	Introduction to Microprocessors & Interfacing	DC68/DC111	Microprocessor & Microcontroller			
TIUDCS-602	System Programming	DC61/DC110	Operating Systems & Systems Software			
	PRAC	TICAL				
TIUDCS-594	Object Oriented Programming Lab (C++)	DC92/DC142	OOPS Lab			
TIUDCS-695	Advanced Java Programming Lab	DC93/DC143	Java & Web Programming Lab			

- 4. Will get exemption in the equivalent courses as mentioned in Course Equivalency structure of DipIETE-CS/IT VS TIU-Diploma CSE (Appendix-H) of Section B, Part II, if passed at IETE, even though Section-B Part-II not completed fully. The IETE will provide the passing certificate of such courses to the students.
- 5. The corresponding credits earned at IETE will be carried forward to TIU.

III Passed Section – A & B of DipIETE - CS Completely

Transition into TIU Diploma-CSE

Gets additional Diploma in Computer Science & Engineering from TIU after doing one semester (06 Months) bridge course comprising following course:

S. No.	No. Course Code Course Title		
		THEORY	
a	TIUBSD-101, 201,	Career Advancement – Skill Development - I to VI	
	301, 401, 501, 601	•	





b	TIUBSP-104	Physics-I	
С	TIUBSC-105 & 203	Chemistry I & II	
d	TIUBPM-106 & 204	Engineering Mechanics I & II	
е	TIUDMT-303	Discrete Mathematics	
f	TIUDCS-405	Numerical Methods	
g	TIUDCS-502	Theory of Computer Science and Automata	
h	TIUDCS-605	Operation Research	
		PRACTICAL	
a	TIUDCS-395	Digital Logic Design Lab	
b	TIUDCS-493	Computer Networks Lab	
С	TIUDCS-494	Numerical Methods Lab	
d	TIUDCS-595	Operating Systems lab	
e	TIUDCS-597	Microprocessor Lab	
f	TIUDCS-692	PC Maintenance Lab	
g	TIUDCS-693	Internet Technologies Lab	
h	TIUDCS-694	Computer Graphics Lab	
		SESSIONAL	
a	TIUCSL-114, 281, 381, 481, 581, 681	Entrepreneurship Skill Development - I to VI	





<u>Appendix – 'G'</u> (Para 9 of Addendum refers)

Course Equivalency

DipIETE –ET Vs TIU-Diploma - ECE

DipIETE - ET		T	IU - Diploma - ECE	
S. No.	Sub Code	Sub Title	Sub Code	,
1	DE51/ DE101	Engineering Mathematics-I	TIUBFY-103	Mathematics-I
2	DE52/ DE102	Fundamentals of Electrical & Electronics	TIUBEE-205	Introduction to Electrical & Electronics Technology
3	DE53/- DE103	Computer Fundamentals & C Programming	TIUBCS-206	Computer Fundamentals & Programming Techniques
4	DE54/ DE104	Electronic Engineering Materials		
5	DE91/ DE141	C Programming Lab	TIUBCS-296, TIUDCS-393	Computer Application Laboratory, Programming in C Lab
6	DE55/ DE105	Engineering Mathematics-II	TIUBSM-202	Mathematics-II
7	DE56/ DE106	Analog Electronics	TIUDEC-302, TIUDEC-402	Analog Electronics I & II
8	DE57/ DE107	Networks & Transmission Lines	TIUDEC-301	Network Theory
9	DE58/ DE108	Logic Design	TIUDEC-303	Digital Electronics
10	DE92/ DE142	Analog Electronics lab	TIUBEE- 295, TIUDEC- 393, 493	Introduction to Electrical & Electronics Technology Laboratory and Simulation, Analog Circuit Lab, Analog Electronics-II Lab
11	DE99/ DE137	Communication Skills & Technical Writing (Oral)	TIUBFY-102	English Language & Communication
12	DE99/ DE138	Communication Skills & Technical Writing (Written)	TIUBFY-102	English Language & Communication
13	DE59/ DE109	Electronic Instrumentation & Measurements	TIUDEC- 502, 603	Electronic Measurement, Instrumentation & Control
14	DE71/ DE110	Power Electronics		
15	DE60/ DE111	Microprocessor & Microcontrollers	TIUDEC- 403,503	Microprocessor, Microcontroller & Embedded Systems
16	DE61/ DE112	Analog Communications	TIUDEC-401	Communication Engineering-I
17	DE62/ DE113	Telecommunication Switching Systems		
18	DE93/ DE143	Logic Design Lab	TIUDEC-393	Digital Electronics Lab
19	DE63/	Digital Communication	TIUDEC-501	Communication Engineering-II





	DE114		1	
20	DE67/ DE115	Embedded Systems	TIUDEC-503	Microcontroller & Embedded Systems
21	DE94/ DE144	Analog & Digital Communications Lab	TIUDEC- 491, 591	Communication Engineering-I & II Lab
22	DE64/ DE135	Project Work	TIUDEC- 581, 582	Intership Project Work, Final Year Project
23	DE136	Seminar	TIUDEC- 681, 682	Seminar on Project, Viva Voce
24	DE66/ DE116	Wireless & Mobile Systems		
25	DE68/ DE117	Television Engineering & Broadcasting		
26	DE69/ DE118	Data Communication & Networks	TIUDEC- 505.1	Computer Networks
27	DE119	Advanced Communication Systems	TIUDEC-601	Communication Engineering-III
28	DE65/ DE120	Control Engineering		
29	DE121	Verilog HDL & VLSI Design		
30	DE70/ DE122	OOPS with C++		
31	DE123	Java and Web Programming		





(Para 10 of Addendum refers)

Course Equivalency DipIETE -CS Vs TIU-CSE

		DipIETE - CS	TIU - Diploma - CSE		
S. No.	Sub Code	Sub Title	Sub Code		
1	DC51/ DC101	Engineering Mathematics-I	TIUBFY-103	Mathematics-I	
2	DC52/ DC102	Fundamentals of Electrical & Electronics	TIUBEE-205, TIUDCS-406	Introduction to Electrical & Electronics Technology, Electronic Devices & Circuits	
3	DC53/ DC103	Computer Fundamentals & C Programming	TIUBCS-206, TIUDCS-304	Computer Fundamentals & Programming Techniques, Programming in C	
4	DC54/ DC104	Data Structure	TIUDCS-403	Data Structure & Algorithms	
5	DC91/ DC141	C & Data Structure Lab	TIUDCS-394, 492	Programming in C Lab, Data Structure Lab in C	
6	DC55/ DC105	Engineering Mathematics-II	TIUBSM-202	Mathematics-II	
7	DC56/ DC106	Object Oriented Programming with C++	TIUDCS-504	Object Oriented Methodologies	
8	DC57/ DC107	Computer Organisation	TIUDCS-306, 503	Computer Organisation, Computer Architecture	
9	DC58/ DC108	Logic Design	TIUDCS-305	Digital Logic Design	
10	DC92/ DC142	OOPS Lab	TIUDCS-504	OOPS Lab (C++)	
11	DC99/ DC137	Communication Skills & Technical Writing (Oral)	TIUDCM- 491	Communication Skills Lab	
12	DC99/ DC138	Communication Skills & Technical Writing (Written)	TIUBFY-102	English Language & Communication	
13	DC59/ DC109	Analysis Design of Information Systems	TIUDCS-505	Operating Systems	
14	DC61/ DC110	Operating Systems & Systems Software	TIUDCS-602	Systems Programming	
15	DC68/ DC111	Microprocessors & Microcontrollers	TIUDCS-507	Introduction to Microprocessors & Interfacing	
16	DC62/ DC112	Database Management Systems	TIUDCS-506	Database Management Systems	
17	DC60/ DC113	Java & Web Programming			
18	DC93/ DC143	Java & Web Programming Lab	TIUDCS-396, 695	Website Design & Development Lab, Advanced	





				Java Programming Lab
19	DC63/	Data Communication &	TIUDCS-407	Data Communication & computer
	DC114	Networks		Networks
20	DC65/	Software Engineering	TIUDCS-603	Software Engineering
	DC115	500		
21	DC94/	DBMS Lab	TIUDCS-596	DBMS Lab
	DC144	9	. 27	
22	DC64/	Project Work	TIUDCS-598,	CST Project Work
	DC135		696	
23	DC136	Seminar	TIUDCS-687	Seminar on CSR Project Work
24	DC66/	Computer Graphics &	TIUDCS-604	Computer Graphics
	DC116	Visualization	11020001	Comparer Grapmes
25	DC69/	C# & .Net		
	DC117	и		
26	DC71/	Internet Applications		/
	DC118		2	
27	DC119	Cloud Computing		
28	DC120	Software Testing		
29	DC67/	Embedded Systems		
	DC121			
30	DC122	Mobile Applications		
		Development		
31	DC71/	Network Management		
	DC123			



