



NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713 209, INDIA

PROVISIONAL CERTIFICATE

This is to certify that **MD SAMIUL FAHAD**

Roll No. **16EC8093**

Registration No. **16U10706**

has completed the 4 Year Degree Course in **BACHELOR OF TECHNOLOGY**
programme in **ELECTRONICS AND COMMUNICATION ENGINEERING** with **Second Class**
in the Academic Year **2019-2020**.

P20040093

Date : - **01.08.2020**

Durgapur

Dean (Academic)



राष्ट्रीय प्रौद्योगिकी संस्थान दुर्गापुर

NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713209, INDIA

TRANSCRIPT

Date : September 02, 2020

NAME : MD SAMIUL FAHAD						INSTITUTE ROLL NO. : 16EC8093					
BRANCH : ELECTRONICS AND COMMUNICATION ENGINEERING						INSTITUTE REGISTRATION NO. : 16U10706					
Course of study : 4 YEAR (8 - SEMESTER) B.Tech. Programme											
FIRST SEMESTER			SECOND SEMESTER			THIRD SEMESTER			FOURTH SEMESTER		
2017-2018			2017-2018			2017-2018			2019-2020		
SUBJECT CODE	CREDIT UNIT	GRADE	SUBJECT CODE	CREDIT UNIT	GRADE	SUBJECT CODE	CREDIT UNIT	GRADE	SUBJECT CODE	CREDIT UNIT	GRADE
CY01	3	P	CS01	3	P	CS331	3	P	EC401	3	P
EM01	3	P	CS51	2	B	EC301	4	C	EC402	4	P
ES01	2	D	EA52	1	B	EC302	3	P	EC403	3	P
HS01	3	D	EC01	3	P	MA331	3	P	EC404	3	P
MA01	3	D	EC51	1	A	PH332	3	C	EE431	3	P
PH01	3	P	EE01	3	C	CS381	2	D	EC451	2	B
CY51	1	B	EE51	1	B	EC351	2	B	EC452	2	C
EA51	1	B	EM51	2	D	PH382	2	D	EE481	2	C
EG51	3	C	HS02	3	P						
PH51	1	B	MA02	4	P						
WS51	2	A	WS52	2	A						
TGP =156.0 SGPA = 6.24			TGP =157.0 SGPA = 6.28			TGP = 134 SGPA = 6.09			TGP =124.0 SGPA = 5.64		
CGPA = 6.24			CGPA = 6.26			CGPA = 6.21			CGPA = 6.07		
FIFTH SEMESTER			SIXTH SEMESTER			SEVENTH SEMESTER			EIGHTH SEMESTER		
2019-2020			2019-2020			2019-2020			2019-2020		
SUBJECT CODE	CREDIT UNIT	GRADE	SUBJECT CODE	CREDIT UNIT	GRADE	SUBJECT CODE	CREDIT UNIT	GRADE	SUBJECT CODE	CREDIT UNIT	GRADE
CH540	3	P	EC601	3	P	EC701	3	C	EC810	3	C
EC501	4	D	EC602	4	C	EC702	4	P	EC812	3	B
EC502	3	D	EC603	3	P	EC724	3	P	EE841	3	C
EC503	3	P	EC604	3	P	EC725	3	P	EC851	2	A
EC504	3	P	MS631	3	P	EC751	2	B	EC852	2	A
EC551	2	A	EC651	2	A	EC752	2	B	EC853	1	B
EC552	2	B	EC652	2	C	EC753	1	B	EC854	6	A
EC553	2	A	HS681	2	A	EC754	3	B	EC855	2	B
						EC755	1	A			
TGP =139.0 SGPA = 6.32			TGP =138.0 SGPA = 6.27			TGP =144 SGPA = 6.55			TGP =180 SGPA = 8.18		
CGPA = 6.12			CGPA = 6.14			CGPA = 6.20			CGPA = 6.44		

TGP = Total Grade Point ; SGPA = Semester Grade Point Average ; CGPA = Cumulative Grade Point Average

(See reverse for the explanation of the Grading and Evaluation system)

SESSION OF COMPLETION OF THE COURSE : 2019-2020

S. Biswas
Checked by

Blank
2/9/2020

Dean (Academic)

Dean (Academic)

National Institute of Technology,
Durgapur - 713209, India

7 - SCALE GRADE SYSTEM

(Full Marks of Theory/ Sessional /Laboratory Course = 100)

Range of marks scored	Performance	Grade awarded	Grade point per credit unit	Remarks
90 and above	Excellent	Ex	10	Pass marks for laboratory/sessional is 50 and there is no 'P' grade for it. Score less than 50 in laboratory/sessional and score less than 40 in theory course is awarded 'F'.
Between 80 & 89	Very good	A	9	
Between 70 & 79	Good	B	8	
Between 60 & 69	Fair	C	7	
Between 50 & 59	Average	D	6	
Between 40 & 49	Pass	P	5	
Below 40	Fail	F	0	

S - Satisfactory

U - Unsatisfactory

Grade point per course = Credit unit of the course x Corresponding Grade point per credit unit.

TGP = Summation of Grade points earned in all courses in the semester.

SGPA = TGP/Total credit unit of the semester.

CGPA = Cumulative Grade Point/ Cumulative credit unit of all the courses up to the current semester.

MAXIMUM POSSIBLE SGPA AND 'CGPA' IS 10.00

The students awarded 'F' in particular course(s) are eligible for the supplementary backlog examination in that / those course(s). The TGP, SGPA, and CGPA shown in that case is tentative and the amended TGP, SGPA, and CGPA in supplementary examination are indicated in Supplementary Grade Card.

Classes awarded based on the final CGPA:

Distinction : CGPA \geq 8.00, provide all the courses passed in regular examinations.

First Class : CGPA \geq 6.50

Second Class : CGPA < 6.50

No distinction is awarded in Post Graduate Programmes.

Equivalent percent marks:

For Semester Examination : Equivalent % marks = (SGPA — 0.5) x 10

For Final CGPA : Over all equivalent % marks = (CGPA — 0.5) x 10

Medium of Instruction and evaluation is English.

1st Semester

S/L no.	Subject Code
1	CY01
2	EM01
3	ES01
4	HS01
5	MA01
6	PH01
7	CY51
8	EA51
9	EG51
10	PH51
11	WS51

Subject Name

ENGINEERING CHEMISTRY
ENGINEERING MECHANICS
ENVIRONMENTAL STUDIES
ENGLISH
MATHEMATICS - I
ENGINEERING PHYSICS
CHEMISTRY LABORATORY
CO-CURRICULAR ACTIVITIES
ENGINEERING GRAPHICS
PHYSICS LABORATORY
WORKSHOP PRACTICE - I

2nd Semester

S/L no.	Subject Code
1	CS01
2	EC01
3	EE01
4	HS02
5	MA02
6	CS51
7	EA52
8	EC51
9	EE51
10	EM51
11	WS52

Subject Name

INTRODUCTION TO COMPUTING
BASIC ELECTRONICS
ELECTRICAL TECHNOLOGY
ENGINEERING ECONOMICS & ACCOUNTANCY
MATHEMATICS- II
COMPUTING LABORATORY
CO-CURRICULAR ACTIVITIES
BASIC ELECTRONICS LABORATORY
ELECTRICAL TECHNOLOGY LABORATORY
GRAPHICAL ANALYSIS USING CAD - SESSIONAL
WORKSHOP PRACTICE- II

3rd Semester

S/L no.	Subject Code
1	CS331
2	EC301
3	EC302
4	MA331
5	PH332
6	CS381
7	EC351
8	PH382

Subject Name

PROGRAMMING & DATA STRUCTURES
ANALOG CIRCUITS
SIGNALS & SYSTEMS
MATHEMATICS- III
PHYSICS OF SEMICONDUCTOR DEVICES
PROGRAMMING & DATA STRUCTURES LABORATORY
ANALOG CIRCUITS LABORATORY
SEMICONDUCTOR DEVICES LABORATORY

4th Semester

S/L no.	Subject Code
1	EC401
2	EC402
3	EC403
4	EC404
5	EE431
6	EC451
7	EC452
8	EE481

Subject Name

DIGITAL ELECTRONICS
ANALOG COMMUNICATION
ENGINEERING ELECTROMAGNETICS
NETWORK ANALYSIS & SYNTHESIS
CENTRAL SYSTEMS ENGINEERING
DIGITAL ELECTRONICS LABORATORY
ANALOG COMMUNICATION LABORATORY
CONTROL SYSTEMS LABORATORY



S/L no. Subject Code

1	CH540
2	EC501
3	EC502
4	EC503
5	EC504
6	EC551
7	EC552
8	EC553

5th Semester**Subject Name**

FUEL & COMBUSTION
DIGITAL COMMUNICATION
INTRODUCTION TO VLSI
DIGITAL SIGNAL PROCESSING
COMPUTER ARCHITECTURE & ORGANIZATION
DIGITAL COMMUNICATION LABORATORY
COMPUTER ORGANIZATION AND VLSI LABORATORY
DIGITAL SIGNAL PROCESSING LABORATORY

S/L no. Subject Code

1	EC601
2	EC602
3	EC603
4	EC604
5	MS631
6	EC651
7	EC652
8	HS681

6th Semester**Subject Name**

TRANSMISSION LINES
MICROPROCESSOR AND MICROCONTROLLER APPLICATIONS
POWER ELECTRONICS
MEASUREMENT AND INSTRUMENTATION
PRINCIPLES OF MANAGEMENT
POWER ELECTRONICS INSTRUMENTATION LABORATORY
MICROPROCESSOR AND MICROCONTROLLER LABORATORY
PROFESSIONAL COMMUNICATION

S/L no. Subject Code

1	EC701
2	EC702
3	EC724
4	EC725
5	EC751
6	EC752
7	EC753
8	EC754
9	EC755

7th Semester**Subject Name**

MICROWAVE ENGINEERING
ANTENNA AND PROPAGATION
ANALOG VLSI DESIGN
DIGITAL VLSI DESIGN
ELECTRONICS CIRCUIT DESIGN LABORATORY - I
MICROWAVE AND ANTENNA ENGINEERING LABORATORY
SEMINAR - I
PROJECT WORK - I
VOCATIONAL TRAINING / SUMMER INTERNSHIP

S/L no. Subject Code

1	EC810
2	EC812
3	EE841
4	EC851
5	EC852
6	EC853
7	EC854
8	EC855

8th Semester**Subject Name**

WIRELESS COMMUNICATION
RADAR ENGINEERING
ELECTRICAL DRIVES
ELECTRONICS CIRCUIT DESIGN LABORATORY- II
SIMULATION LABORATORY
SEMINAR - II
PROJECT WORK - II
VIVA VOCE






NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713 209, INDIA

GRADE CARD

Examination : B.TECH (BACKLOG)		Semester : FIRST	Session : 2017-2018	
Name : MD SAMIUL FAHAD		Roll No. : 16B80089		
Branch : COMMON		Reg No. : 16U10706		
Course Code	Course Name	Credit Unit	Grade	Grade Point
CY01	ENGINEERING CHEMISTRY	3.0	P	15.0
EM01	ENGINEERING MECHANICS	3.0	P	15.0
ES01	ENVIRONMENTAL STUDIES	2.0	D	12.0
HS01	ENGLISH	3.0	D	18.0
MA01	MATHEMATICS - I	3.0	D	18.0
PH01	ENGINEERING PHYSICS	3.0	P	15.0
CY51	CHEMISTRY LABORATORY	1.0	B	8.0
EA51	CO-CURRICULAR ACTIVITIES	1.0	B	8.0
EG51	ENGINEERING GRAPHICS	3.0	C	21.0
PH51	PHYSICS LABORATORY	1.0	B	8.0
WS51	WORKSHOP PRACTICE - I	2.0	A	18.0
Total Grade Point (TGP) :		156.0	Remarks	
Semester Grade Point Average (SGPA) :		6.24	PASSED	
Cumulative Grade Point Average (CGPA) :		6.24		
BU/BO/17/2109		 Checked by		
Date : 13.02.2018		Dean (Academic)		



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Mahatma Gandhi Avenue, Durgapur - 713 209,
WEST BENGAL, INDIA

GRADE CARD

Examination : B.TECH (SUPPLEMENTARY)		Semester : SECOND	Session : 2017-2018	
Name : MD SAMIUL FAHAD		Roll No. : 16B80089		
Branch : COMMON		Reg No. : 16U10706		
Course Code	Course Name	Credit Unit	Grade	Grade Point
CS01	INTRODUCTION TO COMPUTING	3.0	P	15.0
EC01	BASIC ELECTRONICS	3.0	P	15.0
EE01	ELECTRICAL TECHNOLOGY	3.0	C	21.0
HS02	ENGINEERING ECONOMICS & ACCOUNTANCY	3.0	P	15.0
MA02	MATHEMATICS - II	4.0	P	20.0
CS51	COMPUTING LABORATORY	2.0	B	16.0
EA52	CO-CURRICULAR ACTIVITIES	1.0	B	8.0
EC51	BASIC ELECTRONICS LABORATORY	1.0	A	9.0
EE51	ELECTRICAL TECHNOLOGY LABORATORY	1.0	B	8.0
EM51	GRAPHICAL ANALYSIS USING CAD - SESSIONAL	2.0	D	12.0
WS52	WORKSHOP PRACTICE - II	2.0	A	18.0
Total Grade Point (TGP) :		157.0	Remarks	
Semester Grade Point Average (SGPA) :		6.28	PASSED	
Cumulative Grade Point Average (CGPA) :		6.26		
BU/SE/17/3369		S. Biswas		
Date : 13.02.2018		Checked by		
		Dean (Academic)		



NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713 209, INDIA

GRADE CARD


Examination : B.TECH (SUPPLEMENTARY)		Semester : THIRD		Session : 2017-2018	
Name : MD SAMIUL FAHAD				Roll No. : 16EC8093	
Branch : ELECTRONICS & COMMUNICATION ENGINEERING				Reg No. : 16U10706	
Course Code	Course Name	Credit Unit	Grade	Grade Point	
CS331	PROGRAMMING & DATA STRUCTURES	3	P	15	
EC301	ANALOG CIRCUITS	4	C	28	
EC302	SIGNALS & SYSTEMS	3	P	15	
MA331	MATHEMATICS - III	3	P	15	
PH332	PHYSICS OF SEMICONDUCTOR DEVICES	3	C	21	
CS381	PROGRAMMING & DATA STRUCTURES LABORATORY	2	D	12	
EC351	ANALOG CIRCUITS LABORATORY	2	B	16	
PH382	SEMICONDUCTOR DEVICES LABORATORY	2	D	12	
Total Grade Point (TGP) :		134	Remarks		
Semester Grade Point Average (SGPA) :		6.09	PASSED		
Cumulative Grade Point Average (CGPA) :		6.21			
BU/SO/17/3410		S. Biswas			
Date : 13.02.2018		Checked by		Dean (Academic)	



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WEST BENGAL, INDIA

GRADE CARD



Examination : B.TECH (BACKLOG)		Semester : FOURTH	Session : 2019-2020	
Name : MD SAMIUL FAHAD		Roll No. : 16EC8093		
Branch : ELECTRONICS AND COMMUNICATION ENGINEERING		Reg No. : 16U10706		
Course Code	Course Name	Credit Unit	Grade	Grade Point
EC401	DIGITAL ELECTRONICS	3.0	P	15.0
EC402	ANALOG COMMUNICATION	4.0	P	20.0
EC403	ENGINEERING ELECTROMAGNETICS	3.0	P	15.0
EC404	NETWORK ANALYSIS AND SYNTHESIS	3.0	P	15.0
EE431	CONTROL SYSTEMS ENGINEERING	3.0	P	15.0
EC451	DIGITAL ELECTRONICS LABORATORY	2.0	B	16.0
EC452	ANALOG COMMUNICATION LABORATORY	2.0	C	14.0
EE481	CONTROL SYSTEMS LABORATORY	2.0	C	14.0
Total Grade Point (TGP) :		124.0	Remarks	
Semester Grade Point Average (SGPA) :		5.64	PASSED	
Cumulative Grade Point Average (CGPA) :		6.07		
BU/BE/19/1811		 Date : 01.08.2020 Checked by Dean (Academic)		



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Mahatma Gandhi Avenue, Durgapur - 713 209,
WEST BENGAL, INDIA

GRADE CARD



Examination : B.TECH (SUPPLEMENTARY)		Semester : FIFTH		Session : 2019-2020	
Name : MD SAMIUL FAHAD				Roll No. : 16EC8093	
Branch : ELECTRONICS AND COMMUNICATION ENGINEERING				Reg No. : 16U10706	
Course Code	Course Name	Credit Unit	Grade	Grade Point	
CH540	FUELS & COMBUSTION	3.0	P	15.0	
EC501	DIGITAL COMMUNICATION	4.0	D	24.0	
EC502	INTRODUCTION TO VLSI	3.0	D	18.0	
EC503	DIGITAL SIGNAL PROCESSING	3.0	P	15.0	
EC504	COMPUTER ARCHITECTURE & ORGANIZATION	3.0	P	15.0	
EC551	DIGITAL COMMUNICATION LABORATORY	2.0	A	18.0	
EC552	COMPUTER ORGANIZATION AND VLSI LABORATORY	2.0	B	16.0	
EC553	DIGITAL SIGNAL PROCESSING LABORATORY	2.0	A	18.0	
Total Grade Point (TGP) :		139.0	Remarks		
Semester Grade Point Average (SGPA) :		6.32	PASSED		
Cumulative Grade Point Average (CGPA) :		6.12			
BU/SO/19/3415		 Checked by			
Date : 01.08.2020		 Dean (Academic)			



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WEST BENGAL, INDIA

GRADE CARD



Examination : B.TECH (SUPPLEMENTARY)		Semester : SIXTH		Session : 2019-2020	
Name : MD SAMIUL FAHAD				Roll No. : 16EC8093	
Branch : ELECTRONICS AND COMMUNICATION ENGINEERING				Reg No. : 16U10706	
Course Code	Course Name	Credit Unit	Grade	Grade Point	
EC601	TRANSMISSION LINES	3.0	P	15.0	
EC602	MICROPROCESSOR AND MICROCONTROLLER APPLICATIONS	4.0	C	28.0	
EC603	POWER ELECTRONICS	3.0	P	15.0	
EC604	MEASUREMENT AND INSTRUMENTATION	3.0	P	15.0	
MS631	PRINCIPLES OF MANAGEMENT	3.0	P	15.0	
EC651	POWER ELECTRONICS AND INSTRUMENTATION LABORATORY	2.0	A	18.0	
EC652	MICROPROCESSOR AND MICROCONTROLLER LABORATORY	2.0	C	14.0	
HS681	PROFESSIONAL COMMUNICATION	2.0	A	18.0	
Total Grade Point (TGP) :		138.0	Remarks		
Semester Grade Point Average (SGPA) :		6.27	PASSED		
Cumulative Grade Point Average (CGPA) :		6.14			
BU/SE/19/2455		 Checked by			
Date : 01.08.2020					
		 Dean (Academic)			



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Mahatma Gandhi Avenue, Durgapur - 713 209,
WEST BENGAL, INDIA

GRADE CARD

Examination : B.TECH (SUPPLEMENTARY)		Semester : SEVENTH		Session : 2019-2020	
Name : MD SAMIUL FAHAD				Roll No. : 16EC8093	
Branch : ELECTRONICS AND COMMUNICATION ENGINEERING				Reg No. : 16U10706	
Course Code	Course Name	Credit Unit	Grade	Grade Point	
EC701	MICROWAVE ENGINEERING	3	C	21	
EC702	ANTENNA AND PROPAGATION	4	P	20	
EC724	ANALOG VLSI DESIGN	3	P	15	
EC725	DIGITAL VLSI DESIGN	3	P	15	
EC751	ELECTRONICS CIRCUIT DESIGN LABORATORY - I	2	B	16	
EC752	MICROWAVE AND ANTENNA ENGINEERING LABORATORY	2	B	16	
EC753	SEMINAR - I	1	B	8	
EC754	PROJECT WORK - I	3	B	24	
EC755	VOCATIONAL TRAINING / SUMMER INTERNSHIP	1	A	9	
Total Grade Point (TGP) :		144	Remarks		
Semester Grade Point Average (SGPA) :		6.55	PASSED		
Cumulative Grade Point Average (CGPA) :		6.20			
BU/NO/19/3416 Date : 01.08.2020 Checked by  S. Richards Dean (Academic) 					



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Mahatma Gandhi Avenue, Durgapur - 713 209,
WEST BENGAL, INDIA

GRADE CARD

Examination : B.TECH (REGULAR)		Semester : EIGHTH		Session : 2019-2020	
Name : MD SAMIUL FAHAD				Roll No. : 16EC8093	
Branch : ELECTRONICS AND COMMUNICATION ENGINEERING				Reg No. : 16U10706	
Course Code	Course Name	Credit Unit	Grade	Grade Point	
EC810	WIRELESS COMMUNICATION	3	C	21	
EC812	RADAR ENGINEERING	3	B	24	
EE841	ELECTRICAL DRIVES	3	C	21	
EC851	ELECTRONICS CIRCUIT DESIGN LABORATORY - II	2	A	18	
EC852	SIMULATION LABORATORY	2	A	18	
EC853	SEMINAR - II	1	B	8	
EC854	PROJECT WORK - II	6	A	54	
EC855	VIVA VOCE	2	B	16	
Total Grade Point (TGP) :		180	Remarks		
Semester Grade Point Average (SGPA) :		8.18	PASSED and COURSE COMPLETED		
Cumulative Grade Point Average (CGPA) :		6.44	Second Class		
			Total Program Credit Unit = 182		
BU/RE/19/0398/1		S. Biswas			
Date : 01.08.2020		Checked by		Dean (Academic)	