

## Equivalence of Courses of FY and SY of UG

### Equivalence of FY Courses

August 07, 2019

Submitted

Subject: Equivalence to First Year Courses

It is hereby declared that the FY B. Tech. courses belonging to old syllabus (i. e. up to the academic year 2017-18) will be equivalent to the new F.Y. B. Tech. syllabus (academic year 2018-19 onwards) as follows. The evaluation process and award of credits will be carried out as below

1. **Evaluation Process:** The evaluations of theory and practicals will be as given in new curriculum, for example, in case, the old course is with practical evaluation and some credits, and corresponding equivalent course does not have practical evaluation then the student is exempted for practical evaluation.
2. **Credits:** The student will be awarded with credits equal to the number of credits assigned to the equivalent course in new curricula.

S N	Old Course codes	Title old course	No. of Students	Credits Old (Th+Pr)	Code and Title of equivalent current course	New Credits	Remark
1	AS 101	Applied Science-I (Chemistry+Physics)	08	4+1	Equivalent course is not available	--	As per the letter received from Head
2	AS 102	Applied Science-II (Chemistry+Physics)	05	4+0	Equivalent course is not available	--	As per the letter received from Head
3	AS 102	Applied Chemistry	18	3+1	Equivalent course in new structure is not available.	-	As per letter received from course coordinator
4	ES 107	Engineering Chemistry	50	4+1	All are equivalent to current course BSC 102 Chemistry	3+1	Already equivalence is submitted
5	UES 102	Engineering Chemistry	05	4+1			
6	CW 101	Elements of Civil Engineering	10	2+0	All are equivalent But no such course is offered in current curriculum.		As per the letter received from Head
7	ES 102	Elements of Civil Engineering	03	2+0			
8	CW 102	Elements of Civil Engineering	14	2+0			
9	ES 101	Engineering Drawing	03	4+1	All are equivalent to ESC 106-Engineering Graphics	2+2	As per the letter received from Head
10	PR 102	Engineering Drawing	14	2+2			
11	PR 103	Engineering Drawing	08	2+2			
12	PR 104	Engineering Drawing	62	2+2			
13	UPR 102	Engineering Drawing	09	2+2			
14	EE 101	Elements of Electrical Engineering	56	4+1	All are equivalent to ESC 105- Basic Electrical Engineering	3+1	As per the letter received from Head
15	IN 101	Elements of Electrical Engineering	19	3+1			
16	UEE 101	Elements of Electrical	13	4+1			

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		Engineering					
17	ES 103	Elements of Electrical Instrumentation	05	4+1			
18	EC 101	Basic Electronics	39	3+1	Equivalent course is not available	-	
19	ME 101	Elements of Mechanical Engineering	32	2+0	Equivalent course in new structure is not available. However, ME 101 and UME 101 are equivalent. ES 104 is not equivalent with ME 101 (or UME 101)		As per the letter received from Head
20	UME 101	Elements of Mechanical Engineering	09	2+0			
21	ES 104	Fundamentals of Mechanical Engineering	04	4+1			
22	CW 102	Environmental Studies		0+0	All are equivalent among themselves. These courses are NOT equivalent to current course MAC 111- Environmental Sciences	0+0	As per the letter received from Head
23	CE 105	Environmental Studies(Audit)	11	0+0			
24	CW 101	Environmental Studies(Audit)	10	0+0			
25	UCW 101	Environmental Studies(Audit)	04	0+0			
26	MA 101	Engineering Mathematics I	36	4+0	All are equivalent to current course BSC 103- Mathematics I	4	Equivalence is already submitted
27	MA 101	Engineering Mathematics I	06	4+0			
28	MA 103	Engineering Mathematics I	18	5+0			
29	UMA 101	Engineering Mathematics I	09	5+0			
30	MA 103	Engineering Mathematics I (Linear Algebra)	33	5+0			
31	MA 102	Engineering Mathematics II	37	4+0			
32	MA 104	Engineering Mathematics II	28	5+0			
33	UMA 102	Engineering Mathematics II		5+0			
34	MA 104	Engineering Mathematics II (Calculus)	51	5+0			
35	MA 102	Engineering Mathematics II	05	4+0			
36	CW 103	Applied Mechanics	35	4+1	All are equivalent to current course ESC 109- Engineering Mechanics	2+0	As per the letter received from Head
37	CE104	Engineering Mechanics	73	4+1			
38	ES 105	Engineering Mechanics	08	4+0			
39	UCW 102	Engineering Mechanics	12	4+1			
40	AS 101	Applied Physics	20	3+1	Equivalent course is not available in new structure.		As per the letter received from Head
41	ES 106	Engineering Physics	70	4+1	All are equivalent to current course BSC	3+1	Equivalence is already submitted
42	UES 101	Engineering Physics	09	4+1			


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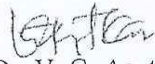
Letter


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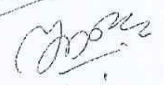
					101- Physics		
43	CS 102	Introduction to Computers & Programming	34/49	3+1	All courses are equivalent to current course ESC 107- Programming For Problem Solving	3+1	As per the letter received from Head
44	UCS 101	Introduction to Computers & Programming	06	3+1			
45	CS 101	Introduction to Computers & Programming	15	2+1			
46	CS 101	Introduction to Computers & Programming		3+0			
47	PR 101	Thermodynamics	13	2+0	This course is NOT equivalent to any of the available current courses.		As per the letter received from Head
48	UWS 101	Workshop Practice	01	0+1	All these courses are equivalent to the current course ESC 108- Workshop/Manufacturing Practices.	1+2	As per the letter received from Head
49	WS 103	Workshop Practice	04	0+1			
50	WS 104	Workshop Practice	12	0+1			
51	WS 101	Workshop Practice I (Mechanical)	01	0+1			

  
Dr. A. R. Patil  
Chairman, FY BOS

  
Dr. V. G. Asutkar  
Controller of Examination

  
Dr. R. S. Holambe  
Dean (Academic)

To,  
The Director  
SGGS Institute of Engineering and Technology,  
Vishnupuri, Nanded

Approved  
  
Chairman, A.C.

## Equivalence of SY Courses

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### DEPARTMENT OF CIVIL ENGINEERING

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Semester I			
New Courses		Old Courses	
Course Code	Name of the course	Course Code	Name of the course
PCC-CE201	Strength of Materials	CE 201	Strength of Materials
PCC-CE202	Fluid Mechanics	CE 202	Fluid Mechanics - I
PCC-CE204	Building Construction	CE 204	Building Construction
Semester II			
New Courses		Old Courses	
Course Code	Name of the course	Course Code	Name of the course
BSC274	Mathematics-IV: Statistical and Numerical Methods	MA202G	Engineering Mathematics-IV
PCC-CE205	Theory of Structures-I	CE205	Theory of Structures-I
PCC-CE206	Hydraulic Engineering	CE206	Fluid Mechanics-II
PCC-CE207	Concrete Technology	CE209	Concrete Technology
ESC280	Building Planning and Computer Aided Drawing	CE208	Building Planning and Drawing

<b>Semester I</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
ESC282	Digital Electronics	UCS205 / CS222	Digital System Design
PCC-CS201	Discrete Mathematics	UCS203 / CS221	Discrete Mathematics
PCC-CS202	Data Structures	UCS204 /CS225	Data Structures
PCC-CS203	Object Oriented Programming with Java	UCS209 /CS224	Object Oriented Programming with Java
PCC-CS204	Numerical and Scientific Computing	UCS210 /CS228	Numerical and Scientific Computing
HMC278	Human Values and Professional Ethics	HS222	Human Values and Professional Ethics
<b>Semester II</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-CS205	Microprocessors and Interfacing	UCS206 / CS226	Microprocessors and Interfacing
PCC-CS206	Computer Organization and Architecture	UCS208 / CS227	Computer Organization and Architecture

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**DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING**

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<b>Semester I</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-EC201	Electronic Devices and Circuits	EC251	Basic Electronic Devices and Circuits
PCC-EC202	Digital Electronics and Microprocessors	EC253	Digital Circuits and Design
PCC-EC203	Network Theory	EC256	Circuits Theory
<b>Semester II</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
ESC284	Data Structures	EC252	Data Structures
PCC-EC204	Communication Engineering Principles	EC257	Communication Engineering Principles
PCC-EC205	Analog Circuits and Design	EC255	Analog and Digital Electronics Circuits
PCC-EC206	Microcontrollers and Applications	EC258	Microcontrollers and Applications
HMC278	Human Values and Professional Ethics	HS222	Human Values and Professional Ethics

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

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<b>Semester I</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-IT201	Data Structures	IT203	Data Structures
PCC-IT202	Object Oriented Programming	IT205	Object Oriented Programming
PCC-IT203	Discrete Mathematics	IT207	Discrete Mathematics
PCC-IT204	Digital Systems Design	IT201	Digital Systems Design
LAB-IT205	Computer Laboratory - I	IT211	Computer Laboratory - I
<b>Semester II</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-IT206	Computer Organization and Architecture	IT204	Computer Organization
PCC-IT207	Microprocessors and Interfacing	IT206	Microprocessors and Interfacing
PCC-IT208	Java Programming	IT208	Java Programming
LAB-IT209	Computer Laboratory - II	IT210	Computer Laboratory - II
PEC-IT2**	Elective – I	IT212	Elective – I
HMC278	Human Values and Professional Ethics	HS222	Human Values and Professional Ethics

\*\* Elective – I

PEC-IT210 IT Project Management

PEC-IT211 Design Thinking

PEC-IT212 Financial Management

PEC-IT213 Ethical Hacking and Cyber Law

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**DEPARTMENT OF INSTRUMENTATION ENGINEERING**

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<b>Semester I</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-IN201	Sensors and Transducers	IN201	Sensors and Transducers
PCC-IN202	Electronics Devices and Circuits	IN202	Electronics Devices and Circuits
PCC-IN203	Circuit Theory	IN207	Circuit Theory
PCC-IN204	Electrical Machines	IN209	Electrical Machines
<b>Semester II</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-IN205	Linear Integrated Circuits	IN203	Linear Integrated Circuits
PCC-IN206	Digital Electronics and Logic Design	IN206	Digital Electronics and Logic Design
PCC-IN207	Signals and Systems	IN204	Signals and Systems
PCC-IN208	Electrical and Electronics Measurements	IN208	Electrical and Electronics Measurements
HMC278	Human Values and Professional Ethics	HS222	Human Values and Professional Ethics



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**DEPARTMENT OF PRODUCTION ENGINEERING**

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<b>Semester I</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-PE201	Strength of Materials	PR232	Strength of Materials / Strength of Materials (Revised)
PCC-PE202	Thermal Engineering- I	PR233	Thermal Engineering- I
PCC-PE203	Casting and Welding	PR231	Casting and Welding
		PR354	Casting and Welding Techniques
PCC-PE204	Engineering Metallurgy	PR243	Engineering Metallurgy
PCC-PE205	Machine Drawing and CADD	PR245	Machine Drawing and CADD
<b>Semester II</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-PE206	Theory of Machines	PR242	Theory of Machines
PCC-PE207	Thermal Engineering- II	PR244	Thermal Engineering- II
PCC-PE208	Mechanical Measurement and Metrology	PR251 / PR235	Mechanical Measurement and Metrology
PCC-PE209	Machining Processes	PR234	Machining Processes
LAB-PE210	Manufacturing Lab - I	PR236	Manufacturing Lab - I
HMC278	Human Values and Professional Ethics	HS222	Human Values and Professional Ethics

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**DEPARTMENT OF TEXTILE TECHNOLOGY**

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<b>Semester I</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-TT203	Textile Wet Processing – I	TT210	Textile Wet Processing – I
PCC-TT204	Natural Fibers and Fiber Forming Polymers	TT207	Natural Fibers and Fiber Forming Polymers
HMC278	Human Values and Professional Ethics	HS222	Human Values and Professional Ethics
<b>Semester II</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-TT206	Fabric Forming Technology – II	TT206	Fabric Forming Technology – II
PCC-TT208	Textile Wet Processing - II	TT356	Textile Wet Processing - II

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**DEPARTMENT OF CHEMICAL ENGINEERING**

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<b>Semester I</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
ESC286	Applied Physical Chemistry	CH203	Applied Physical Chemistry
PCC-CH201	Chemical Process Calculations	CH210	Chemical Process Calculations
PCC-CH202	Fluid Mechanics	CH204	Fluid Particle Mechanics
PCC-CH203	Chemical Engineering Thermodynamics - I	CH201	Chemical Engineering Thermodynamics - I
HMC278	Human Values and Professional Ethics	HS222	Human Values and Professional Ethics
<b>Semester II</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-CH205	Chemical Engineering Thermodynamics - II	CH206	Chemical Engineering Thermodynamics - II
PCC-CH207	Mechanical Operations	CH211	Mechanical Operations

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**DEPARTMENT OF ELECTRICAL ENGINEERING**

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<b>Semester I</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-EE201	Analog Electronic Circuits	EE203	Analog Electronic Circuits
PCC-EE202	Electrical Machines-I	EE205 / EE202	Electrical Machines-I
PCC-EE203	Circuit Theory	EE207 / EE208	Circuit Theory / Network Analysis
<b>Semester II</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-EE206	Electrical Machines-II	EE204 / EE205	Electrical Machines-II
PCC-EE207	Digital Electronics and Logic Design	EE206	Digital Electronics and Logic Design
PCC-EE208	Electrical and Electronics Measurements	EE208 / EE207	Electrical and Electronics Measurements / Electrical Measurement and Instrumentation
PCC-EE209	Signals and Systems	EE210	Signals and System
HMC278	Human Values and Professional Ethics	HS222	Human Values and Professional Ethics

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**DEPARTMENT OF MECHANICAL ENGINEERING**

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<b>Semester I</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-ME201	Strength of Materials	ME201	Strength of Materials
PCC-ME203	Mechanical Instrumentation	ME203	Mechanical Measurements and Meteorology
PCC-ME204	Manufacturing Processes-I	ME205	Manufacturing Processes-I
PCC-ME205	Materials Engineering	ME204	Materials Metallurgy
HMC278	Human Values and Professional Ethics	HS222	Human Values and Professional Ethics
<b>Semester II</b>			
<b>New Courses</b>		<b>Old Courses</b>	
<b>Course Code</b>	<b>Name of the course</b>	<b>Course Code</b>	<b>Name of the course</b>
PCC-ME207	Fluid Mechanics and Hydraulic Machines	ME207	Fluid Mechanics and Hydraulic Machines
PCC-ME208	Machine Drawing and CADD	ME209	Machine Drawing and Computer Aided Drafting
PCC-ME209	Manufacturing Processes-II	ME208	Manufacturing Processes-II
PCC-ME210	Kinematics and Theory of Machines	ME206	Theory of Machines
MAC277	Indian Constitution		