

# SDM COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD

## Department of Mechanical Engineering

I semester B. E. (Common to all Branches)

### Physics cycle

Course Code	*Course Category	Course Title	Teaching		Examination				
			L-T-P (Hrs/Week)	Credits	CIE	Theory (SEE)		Practical (SEE)	
					Max. Marks	**Max. Marks	Duration in Hrs.	Max. Marks	Duration In Hrs.
21UMAC100	BS	Engineering Mathematics-I	2 - 2 - 0	3	50	100	3	-	-
21UPHC100	BS	Engineering Physics	3 - 0 - 0	3	50	100	3	-	-
21UEEC100	ES	Basic Electrical Engineering	3 - 0 - 0	3	50	100	3	-	-
21UCVC100	ES	Elements of Civil Engineering and Mechanics	3 - 0 - 0	3	50	100	3	-	-
21UMECE100	ES	Elements of Mechanical Engineering	2 - 0 - 0	2	50	50	2	-	-
21UHUC100	HU	Functional English	1 - 2 - 0	2	50	50	2	-	-
21UPHL100	BS	Engineering Physics Lab	0 - 0 - 2	1	50	-	-	50	2
21UESL100	ES	Basic Engineering Skills Lab	0 - 0 - 2	1	50	-	-	50	2
21UAEE1XX	AE	Ability Enhancement Course	2- 0- 0	2	50	50	2	-	-
<b>Total</b>			<b>16 - 4 - 4</b>	<b>20</b>	<b>450</b>	<b>550</b>		<b>100</b>	

- \* BS- Basic science ES- Engineering Science HU- Humanities, languages and Management AE- Ability enhancement course
- \*\* Semester End Examination conducted for 100 marks will be reduced to 50 marks

### Chemistry cycle

Course Code	*Course Category#	Course Title	Teaching		Examination				
			L-T-P (Hrs/Week)	Credits	CIE	Theory (SEE)		Practical (SEE)	
					Max. Marks	**Max. Marks	Duration in Hrs.	Max. Marks	Duration In Hrs.
21UMAC100	BS	Engineering Mathematics – I	2-2-0	3	50	100	3	-	-
21UCYC100	BS	Engineering Chemistry	3-0-0	3	50	100	3	-	-
21UECC100	ES	Basic Electronics	3-0-0	3	50	100	3	-	-
21UCSC100	ES	Problem Solving & Programming in C	3-0-0	3	50	100	3	-	-
21UMGC100	ES	Engineering Graphics	2-0-0	2	50	50	2	-	-
21UCYL100	BS	Engineering Chemistry Lab	0-0-2	1	50	-	-	50	2
21UCSL100	ES	Computer Programming Lab	0-0-2	1	50	-	-	50	2
21UAEE1XX	AE	Ability Enhancement Course	2-0-0	2	50	50	2	-	-
21UHUC101	HU	Society, Environment and Engineering	2 -0-0	2	50	50	2	-	-
<b>Total</b>			<b>17 - 2 -4</b>	<b>20</b>	<b>450</b>	<b>550</b>		100	

\* BS- Basic science ES- Engineering Science HU- Humanities, languages and Management AE- Ability enhancement course

\*\* Semester End Examination conducted for 100 marks will be reduced to 50 marks

#### Elective Course:

Course Code	Course Title	Credits
21UAEE100	Biology for Engineers	2

## II semester B. E. (Common to all Branches)

### Physics cycle

Course Code	*Course Category	Course Title	Teaching		Examination				
			L-T-P (Hrs/Week)	Credits	CIE	Theory (SEE)		Practical (SEE)	
					Max. Marks	**Max. Marks	Duration in Hrs.	Max. Marks	Duration In Hrs.
21UMAC200	BS	Engineering Mathematics-II	2 - 2 - 0	3	50	100	3	-	-
21UPHC200	BS	Engineering Physics	3 - 0 - 0	3	50	100	3	-	-
21UEEC200	ES	Basic Electrical Engineering	3 - 0 - 0	3	50	100	3	-	-
21UCVC200	ES	Elements of Civil Engineering and Mechanics	3 - 0 - 0	3	50	100	3	-	-
21UMEC200	ES	Elements of Mechanical Engineering	2 - 0 - 0	2	50	50	2	-	-
21UPHL200	BS	Engineering Physics Lab	0 - 0 - 2	1	50	-	-	50	2
21UESL200	ES	Basic Engineering Skills Lab	0 - 0 - 2	1	50	-	-	50	2
21UAEE2XX	AE	Ability Enhancement Course	2- 0- 0	2	50	50	2	-	-
21UHUC201	HU	Society, Environment and Engineering	2 -0-0	2	50	50	2	-	-
<b>Total</b>			<b>17 – 2 - 4</b>	<b>20</b>	<b>450</b>	<b>550</b>		<b>100</b>	

\* BS- Basic science ES- Engineering Science HU- Humanities, languages and Management AE- Ability enhancement course

\*\* Semester End Examination conducted for 100 marks will be reduced to 50 marks

### Chemistry cycle

Course Code	*Course Category#	Course Title	Teaching		Examination				
			L-T-P (Hrs/Week)	Credits	CIE	Theory (SEE)		Practical (SEE)	
					Max. Marks	**Max. Marks	Duration in Hrs.	Max. Marks	Duration In Hrs.
21UMAC200	BS	Engineering Mathematics – II	2-2-0	3	50	100	3	-	-
21UCYC200	BS	Engineering Chemistry	3-0-0	3	50	100	3	-	-
21UECC200	ES	Basic Electronics	3-0-0	3	50	100	3	-	-
21UCSC200	ES	Problem Solving & Programming in C	3-0-0	3	50	100	3	-	-
21UMGC200	ES	Engineering Graphics	2-0-0	2	50	50	2	-	-
21UHUC200	HU	Functional English	1 - 2 - 0	2	50	50	2	-	-
21UCYL200	BS	Engineering Chemistry Lab	0-0-2	1	50	-	-	50	2
21UCSL200	ES	Computer Programming Lab	0-0-2	1	50	-	-	50	2
21UAEE2XX	AE	Ability Enhancement Course	2-0-0	2	50	50	2	-	-
<b>Total</b>			<b>16 - 4 -4</b>	<b>20</b>	<b>450</b>	<b>550</b>		100	

\* BS- Basic science ES- Engineering Science HU- Humanities, languages and Management AE- Ability enhancement course

\*\* Semester End Examination conducted for 100 marks will be reduced to 50 marks

**Elective Course:**

Course Code	Course Title	Credits
21UAEE201	Numerical Techniques for Engineers	2
21UAEE200	Cyber Law	2

### III Semester

Course Code	*Course Category	Course Title	Teaching		Examination				
			L-T-P (Hrs/Week)	Credits	CIE	Theory (SEE)		Practical (SEE)	
					Max. Marks	**Max. Marks	Duration in Hrs.	Max. Marks	Duration in Hrs.
21UMAC300	BS	Engineering Mathematics-III	3 - 0 - 0	3	50	100	3	-	-
21UMEC300	PC	Engineering Thermodynamics	2 - 2 - 0	3	50	100	3	-	-
21UMEC301	PC	Materials Science	3 - 0 - 0	3	50	100	3	-	-
21UMEC302	PC	Mechanics of Materials	2 - 2 - 0	3	50	100	3	-	-
21UMEC303	PC	Machine Drawing	2 - 0 - 2	3	50	100	3	-	-
21UAEE374	AE	CNC Technology (Ability Enhancement course)	2 - 0 - 0	2	50	50	2	-	-
21UHUC300	HU	Universal Human Values - 1	2 - 0 - 0	2	50	50	2	-	-
21UMEL305	PC	Materials Science & Materials Testing Laboratory	0 - 0 - 3	1.5	50	--	-	50	3
21UMEL306	PC	Foundry & Forging Laboratory	0 - 1 - 2	1.5	50	-	-	50	3
21UHUA300	***HU	Constitution of India & Professional Ethics	2 - 0 - 0	Audit	50	--	-	-	-
21UMBA301	****BS	Mathematics	3 - 0 - 0	Audit	50	-	-	-	-
Total			<b>21 - 6 - 6</b>	<b>22</b>	<b>500/550</b>	<b>600/650</b>		<b>100</b>	

\* BS- Basic science ES- Engineering Science HU- Humanities, languages and Management AE- Ability enhancement course PC- Program core

\*\* Semester End Examination conducted for 100 marks will be reduced to 50 marks

\*\*\* Students of all branches will be divided into 2 groups, and each group will take either CIPE or Kannada in 3<sup>rd</sup> and 4<sup>th</sup> semester respectively.

\*\*\*\* Bridge course on Mathematics for Lateral entry students.

21UAEE3 - X : “- “ is the number assigned to the department. 1- CV, 2-CSE, 3-CH, 4-EE, 5-EC, 6-ISE and 7-ME (Assuming departments offer different Ability Enhancement course for their students).

HOD-ME