

## RAJASTHAN TECHNICAL UNIVERSITY, KOTA

# Teaching and Examination Scheme I Semester: B. Tech Common to all branches of UG Engineering & Technology

SN	Category	Course Code	Course Title	Hours			Marks			Cr
				L	T	P	IA	ETE	Total	1
1	BSC	1FY2-01	Engineering Mathematics-I	3	1	-	30	70	100	4
2	BSC	1FY2- 02/ 1FY2-03	Engineering Physics/ Engineering Chemistry	3	1	-	30	70	100	4
3	HSMC	1FY1- 04/ 1FY1-05	Communication Skills/ Human Values	2	-	-	30	70	100	2
4	ESC	1FY3- 06/ 1FY3-07	Programming for Problem Solving/ Basic Mechanical Engineering	2	-	-	30	70	100	2
5	ESC	1FY3- 08/ 1FY3-09	Basic Electrical Engineering/ Basic Civil Engineering	2	-	-	30	70	100	2
6	BSC	1FY2- 20/ 1FY2-21	Engineering Physics Lab/ Engineering Chemistry Lab	-	-	2	60	40	100	1
7	HSMC	1FY1- 22/ 1FY1-23	Language Lab/ Human Values Activities and Sports	-	-	2	60	40	100	1
8	ESC	1FY3- 24/ 1FY3-25	Computer Programming Lab/ Manufacturing Practices Workshop	-	-	3	60	40	100	1.5
9	ESC	1FY3- 26/ 1FY3-27	Basic Electrical Engineering Lab/ Basic Civil Engineering Lab	-	-	2	60	40	100	1
10	ESC	1FY3- 28/ 1FY3-29	Computer Aided Engineering Graphics/ Computer Aided Machine Drawing	-	_	3	60	40	100	1.5
11	Foundation Course	1FY8-0X	NCC/NSS/Sports			1			100	0.5
	1	<u> </u>	I	1	1	1	1	1	Total	20.5

L: Lecture, T: Tutorial,

**P:** Practical, **IA:** Internal Assessment **ETE:** End Term Exam, **Cr:** Credits



## RAJASTHAN TECHNICAL UNIVERSITY, KOTA

# Teaching and Examination Scheme II Semester: B.Tech.

#### Common to all branches of UG Engineering & Technology

SN	Category	Course Code	Course Title	Hours			Marks			Cr
				L	T	P	IA	ETE	Total	
1	BSC	2FY2-01	Engineering Mathematics-II	3	1	-	30	70	100	4
2	BSC	2FY2-03/ 2FY2-02	Engineering Chemistry/ Engineering Physics	3	1	-	30	70	100	4
3	HSMC	2FY1-05/ 2FY1-04	Human Values/ Communication Skills	2	-	-	30	70	100	2
4	ESC	2FY3-07/ 2FY3-06	Basic Mechanical Engineering/ Programming for Problem Solving	2	-	-	30	70	100	2
5	ESC	2FY3-09/ 2FY3-08	Basic Civil Engineering/ Basic Electrical Engineering	2	-	-	30	70	100	2
6	BSC	2FY2-21/ 2FY2-20	Engineering Chemistry Lab/ Engineering Physics Lab	-	-	2	60	40	100	1
7	HSMC	2FY1-23/ 2FY1-22	Human Values Activities and Sports/ Language Lab	-	-	2	60	40	100	1
8	ESC	2FY3-25/ 2FY3-24	Manufacturing Practices Workshop/ Computer Programming Lab	-	-	3	60	40	100	1.5
9	ESC	2FY3-27/ 2FY3-26	Basic Civil Engineering Lab/ Basic Electrical Engineering Lab	-	-	2	60	40	100	1
10	ESC	2FY3-29/ 2FY3-28	Computer Aided Machine Drawing/ Computer Aided Engineering Graphics	-	-	3	60	40	100	1.5
11	Foundation Course	1FY8-0X	NCC/NSS/Sports			1			100	0.5
	Course								Total	20.5

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#### RAJASTHAN TECHNICAL UNIVERSITY, KOTA

#### I & II Semester

#### Common to all branches of UG Engineering & Technology

#### 1FY2-20/ 2FY2-20: Engineering Physics Lab

- 1. To determine the wavelength of monochromatic light with the help of Michelson's interferometer.
- 2. To determine the wavelength of sodium light by Newton's Ring.
- 3. To determine the wavelength of prominent lines of mercury by plane diffraction grating with the help of spectrometer.
- 4. Determination of band gap using a P-N junction diode.
- 5. To determine the height of given object with the help of sextant.
- 6. To determine the dispersive power of material of a prism with the help of spectrometer.
- 7. To study the charge and discharge of a condenser and hence determine the same constant (both current and voltage graphs are to be plotted.
- 8. To determine the coherence length and coherence time of laser using He Ne laser.
- 9. To measure the numerical aperture of an optical fibre.
- 10. To study the Hall Effect and determine the Hall Voltage and Hall coefficients.