

**ST.STEPHEN'S HOSPITAL**

**COLLEGE OF NURSING**

**UNIT PLAN**

**APPLIED BIOCHEMISTRY**

**B.Sc. (H) NURSING 1<sup>ST</sup> YEAR**

**2<sup>nd</sup> Semester**

**NAME OF THE SUBJECT** : Applied Biochemistry

**NAME OF THE UNIT** : I

**NAME OF THE TOPIC** : Carbohydrates

**NUMBER OF HOURS** : 8 hours

**GROUP OF STUDENTS** : B.Sc. (H )Nursing 1<sup>st</sup> year - 2<sup>nd</sup> Semester

**NUMBER OF STUDENTS** : 23

**VENUE** : B.Sc. 1<sup>st</sup> year classroom

**METHOD OF TEACHING** : Lecture cum Discussion

**AV AIDS** : OHP, Whiteboard

**GENERAL OBJECTIVES** : At the end of the unit, the students would be able to know about the “Digestion, absorption and metabolism of carbohydrates and related disorders, Regulation of blood glucose, Diabetes Mellitus- type 1 and type 2, investigations of Diabetes Mellitus, and Hypoglycemia- Definition and causes.

**EDUCATIONAL PROGRAMMES** : B.Sc.(H) Nursing 1<sup>st</sup> Year – 2<sup>nd</sup> Semester

**COURSE TITLE** : Biochemistry

**PLACEMENT** : First Year 2<sup>nd</sup> Semester

**UNIT NO** : I (Carbohydrates)

<b>LEARNING OBJECTIVES</b>	<b>CONTENT</b>	<b>TIME (HOURS)</b>	<b>TEACHING/ LEARNING ACTIVITIES</b>	<b>TEACHING AIDS</b>	<b>METHOD OF EVALUATION</b>
1. To explain the digestion, absorption and metabolism of carbohydrates and related disorders	<ul style="list-style-type: none"><li>• Digestion and absorption of Carbohydrates.</li><li>• Metabolism of carbohydrates and related disorders</li></ul>	3 Hour	Lecture cum discussion  Explain using Charts and slides	White board  OHP	Short answers  Objective type
2. To discuss the regulation of blood glucose.	<ul style="list-style-type: none"><li>• Regulation of blood glucose</li></ul>	1 hour	Lecture cum discussion	White board  OHP	Short answers  Objective type

3. To elaborate about Diabetes Mellitus, its types and management	<ul style="list-style-type: none"> <li>• Diabetes Mellitus- type 1 and type 2</li> <li>• Symptoms, complications and Management of DM</li> </ul>	2 hour	Lecture cum discussion	White board OHP	Essay type Short answers Objective type
4. To Enumerate the investigations of Diabetes Mellitus	<ul style="list-style-type: none"> <li>• Investigations of Diabetes Mellitus</li> <li>• OGTT- indications, procedure and interpretations</li> <li>• HbA1c</li> </ul>	1 hour	Demonstrations of laboratory tests	Charts and slides	Very short answers Objective type
5. To Describe about hypoglycemia	<ul style="list-style-type: none"> <li>• Hypoglycemia- Definition and causes</li> </ul>	1 hour	Lecture cum discussion	OHP	Essay type Short answers

