



## **DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH**

(A Deemed to be University Declared under Section 3 of UGC Act, 1956)

Comprising Sri Devaraj Urs Medical College

[Constituent Unit of Sri Devaraj Urs Educational Trust for Backward Classes (Regd.)]

TAMAKA, KOLAR-563103, KARNATAKA, INDIA

Ph: 08152-243009, +91 9448395232 Fax: +918152 -243008 E-mail: [registrar@sduu.ac.in](mailto:registrar@sduu.ac.in)/[office@sduu.ac.in](mailto:office@sduu.ac.in). Website: [www.sduu.ac.in](http://www.sduu.ac.in)

# **CHOICE BASED CREDIT SYSTEM (CBCS)**

(With effect from 2017-2018 batches)

## **Curriculum for Integrated B.Sc. - M.Sc. Clinical Nutrition and Dietetics Programme**

Dean

Faculty of Allied Health Sciences  
Sri Devaraj Urs Academy of  
Higher Education & Research  
Tamaka, Kolar-563 101

Approved as per BOM-44-2017, (Resolution No-XLIV-12) Dated-23/06/2017



# SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH

(A Deemed to be University declared under Section 3 of UGC Act 1956)

Comprising Sri Devaraj Urs Medical College

[Constituent unit of Sri Devaraj Urs Educational Trust for Backward Classes (Regd.)]

TAMAKA, KOLAR-563 103, KARNATAKA, INDIA

Ph: 918152-243003, +91 9448395232, Fax : +918152 - 243008 E-mail – [registrar@sduu.ac.in](mailto:registrar@sduu.ac.in) / [office@sduu.ac.in](mailto:office@sduu.ac.in). Website: [www.sduu.ac.in](http://www.sduu.ac.in)

## B.Sc. M.Sc. Integrated CLINICAL NUTRITION AND DIETETICS COURSE CURRICULUM OUTLINE

I YEAR I SEMESTER					
Course No	Title of the Course	Credits	Hrs/Wk		Total Hrs/ Semester
			(T)	(P)	
CND 111	Human Physiology-I	4 (3+1)	3	2	80
CND 112	Human Physiology-II	4 (3+1)	3	2	80
CND 113	Nutritional Biochemistry	6 (4+2)	4	4	128
CND 114	Human Anatomy	3 (3+0)	3	0	48
CND 115	Food Facts and Principles-I	4 (3+1)	3	2	80
CND 116	English for communication	2 (1+1)	1	2	48
<b>Total</b>		<b>23</b>	<b>17</b>	<b>12</b>	<b>464</b>

I YEAR II SEMESTER					
Course No	Title of the Course	Credits	Hrs/Wk		Total Hrs/ Semester
			(T)	(P)	
CND 121	Computer Science	2 (1+1)	1	2	48
CND 122	Assessment of Nutritional Status	4 (2+2)	2	4	96
CND 123	Hospital Dietetics-I	4 (3+1)	3	2	80
CND 124	Applied Nutrition-I	4 (3+1)	3	2	80
CND 125	Food facts and Principles-II	4 (3+1)	3	2	80
CND 126	Elective Paper : Yoga Therapy/ Food biotechnology/ Home based catering	2 (1+1)	1	2	48
<b>Total</b>		<b>20</b>	<b>13</b>	<b>14</b>	<b>432</b>

II YEAR I SEMESTER					
Course No	Title of the Course	Credits	Hrs/Wk		Total Hrs/ Semester
			(T)	(P)	
CND 211	Environmental Science	3 (2+1)	2	2	64
CND 212	Medical Nutrition Management-I	4 (3+1)	3	2	80
CND 213	Nutrition through life span –I	4 (3+1)	3	2	80
CND 214	Applied Nutrition-II	4 (3+1)	3	2	80
CND 215	Food Sanitation and Hygiene	4 (4+0)	4	0	64
CND 216	Food Standards and Quality Control	4 (4+0)	4	0	64
<b>Total</b>		<b>23</b>	<b>19</b>	<b>8</b>	<b>432</b>



# SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH

**(A Deemed to be University declared under Section 3 of UGC Act 1956)**

**Comprising Sri Devaraj Urs Medical College**

**[Constituent unit of Sri Devaraj Urs Educational Trust for Backward Classes (Regd.)]**

**TAMAKA, KOLAR-563 103, KARNATAKA, INDIA**

Ph: 918152-243003, +91 9448395232, Fax : +918152 - 243008 E-mail – [registrar@sduu.ac.in](mailto:registrar@sduu.ac.in) / [office@sduu.ac.in](mailto:office@sduu.ac.in). Website: [www.sduu.ac.in](http://www.sduu.ac.in)

II YEAR II SEMESTER					
Course No	Title of the Course	Credits	Hrs/Wk		Total Hrs/ Semester
			(T)	(P)	
CND 221	Entrepreneurship Development	2 (2+0)	2	0	32
CND-222	Nutrition Through Life Span-II	4 (3+1)	3	2	80
CND 223	Medical Nutrition Management-II	4 (3+1)	3	2	80
CND 224	Food Processing and Technology	5 (3+2)	3	4	112
CND 225	Hospital Dietetics-II	4 (0+4)	0	8	128
CND 226	Elective Paper: Integrated Nutrition therapy for Diabetes/ Psychology/ Personality Development	2 (2+0)	2	0	32
<b>Total</b>		<b>21</b>	<b>13</b>	<b>16</b>	<b>464</b>

III YEAR I SEMESTER					
Course No	Title of the Course	Credits	Hrs/Wk		Total Hrs/ Semester
			(T)	(P)	
CND 311	Medical Nutrition Management-III	4 (3+1)	3	2	80
CND 312	Nutrition and Fitness	4 (2+2)	2	4	96
CND 313	Nutrition through life span-III	4 (3+1)	3	2	80
CND 314	Dietary Counseling	3 (1+2)	1	4	80
CND 315	Nutrition and Immunity	4 (4+0)	4	0	64
CND 316	Elective Paper : Bakery Science/ Communication and Extension/ Socio-Economic Analysis of communities	2 (1+1)	1	2	48
<b>Total</b>		<b>21</b>	<b>14</b>	<b>14</b>	<b>448</b>

III YEAR II SEMESTER					
Course No	Title of the Course	Credits	Hrs/Wk		Total Hrs/ Semester
			(T)	(P)	
CND 321	Improving Health and Nutrition: IEC Approaches	4 (2+2)	2	4	96
CND 322	Food Preservation and Storage	3 (2+1)	2	2	64
CND 323	Public Health Nutrition	3 (2+1)	2	2	64
CND 324	Institutional Food Administration	4 (3+1)	3	2	80
CND 325	Project cum Internship*	4 (1+3)	1	6	112
CND 326	Elementary Statistics	2 (1+1)	1	2	48
<b>Total</b>		<b>20</b>	<b>11</b>	<b>18</b>	<b>464</b>

\*Internship for 2 months is mandatory



# SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH

**(A Deemed to be University declared under Section 3 of UGC Act 1956)**

**Comprising Sri Devaraj Urs Medical College**

**[Constituent unit of Sri Devaraj Urs Educational Trust for Backward Classes (Regd.)]**

**TAMAKA, KOLAR-563 103, KARNATAKA, INDIA**

Ph: 918152-243003, +91 9448395232, Fax : +918152 - 243008 E-mail – [registrar@sduu.ac.in](mailto:registrar@sduu.ac.in) / [office@sduu.ac.in](mailto:office@sduu.ac.in). Website: [www.sduu.ac.in](http://www.sduu.ac.in)

IV YEAR I SEMESTER					
Course No	Title of the Course	Credits	Hrs/Wk		Total Hrs/ Semester
			(T)	(P)	
CND 411	Food Toxicology	4 (4+0)	4	0	64
CND 412	Research Methodology	4 (4+0)	4	0	64
CND 413	Functional Foods and Nutraceuticals	3 (3+0)	3	0	48
CND 414	Nutritional Genomics	3 (2+1)	2	2	64
CND 415	Food microbiology	4 (4+0)	4	0	64
CND 416	Minor Project	4 (0+4)	0	8	128
<b>Total</b>		<b>22</b>	<b>17</b>	<b>10</b>	<b>432</b>

IV YEAR II SEMESTER					
Course No	Title of the Course	Credits	Hrs/Wk		Total Hrs/ Semester
			(T)	(P)	
CND 421	Methods of Investigation	3 (1+2)	1	4	80
CND 422	Statistics and Computer Applications	3 (2+1)	2	2	64
CND 423	Instrumentation for Food Analysis	2 (0+2)	0	4	64
CND 424	Research Methods in Food and Nutrition	2 (2+0)	2	0	32
CND 425	Sensory Evaluation	2 (1+1)	2	2	64
CND 426	Elective Paper : Food packaging/ Resource Management/ Project Planning	2 (2+0)	2	0	32
<b>Total</b>		<b>14</b>	<b>9</b>	<b>12</b>	<b>336</b>

V YEAR I SEMESTER					
Course No	Title of the Course	Credits	Hrs/Wk		Total Hrs/ Semester
			(T)	(P)	
CND 511	Dissertation (to be completed by II sem)	4 (0+4)	0	8	128
CND 512	Food Product Development	4 (1+3)	1	6	112
CND 513	Current trends and Issues in food and Nutrition	2 (0+2)	0	4	64
CND 514	Nutrition in Critical Care	4 (3+1)	3	2	80
CND 515	Elective Paper Food Analysis/ Web designing/ Project Management	2 (1+1)	1	2	48
<b>Total</b>		<b>16</b>	<b>5</b>	<b>22</b>	<b>432</b>



# SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH

**(A Deemed to be University declared under Section 3 of UGC Act 1956)**

**Comprising Sri Devaraj Urs Medical College**

**[Constituent unit of Sri Devaraj Urs Educational Trust for Backward Classes (Regd.)]**

**TAMAKA, KOLAR-563 103, KARNATAKA, INDIA**

Ph: 918152-243003, +91 9448395232, Fax : +918152 - 243008 E-mail – [registrar@sduu.ac.in](mailto:registrar@sduu.ac.in) / [office@sduu.ac.in](mailto:office@sduu.ac.in). Website: [www.sduu.ac.in](http://www.sduu.ac.in)

V YEAR II SEMESTER					
Course No	Title of the Course	Credits	Hrs/Wk		Total Hrs/ Semester
			(T)	(P)	
<b>CND 521</b>	<b>Dissertation</b>	<b>4 (0+4)</b>	<b>0</b>	<b>8</b>	<b>128</b>
<b>CND 522</b>	<b>Scientific Writing</b>	<b>3 (1+2)</b>	<b>1</b>	<b>4</b>	<b>80</b>
<b>CND 523</b>	<b>Nutrition in Major Emergencies</b>	<b>4 (4+0)</b>	<b>4</b>	<b>0</b>	<b>64</b>
<b>Total</b>		<b>11</b>	<b>5</b>	<b>12</b>	<b>272</b>

CORE COURSES		
1	CND 111	Human Physiology-I
2	CND 112	Human Physiology-II
3	CND 113	Nutritional Biochemistry
4	CND 114	Human Anatomy
5	CND 115	Food Facts and Principles-I
6	CND 122	Assessment of Nutritional Status
7	CND 123	Hospital Dietetics-I
8	CND 124	Applied Nutrition-I
9	CND 125	Food facts and Principles-II
10	CND 212	Medical Nutrition Management-I
11	CND 213	Nutrition through life span –I
12	CND 214	Applied Nutrition-II
13	CND 215	Food Sanitation and Hygiene
14	CND 216	Food Standards and Quality Control
15	CND-222	Nutrition Through Life Span-II
16	CND 223	Medical Nutrition Management-II
17	CND 224	Food Processing and Technology
18	CND 225	Hospital Dietetics-II
19	CND 311	Medical Nutrition Management-III
20	CND 312	Nutrition and Fitness
21	CND 313	Nutrition through life span-III
22	CND 315	Nutrition and Immunity
23	CND 321	Improving Health and Nutrition: IEC Approaches
24	CND 322	Food Preservation and Storage
25	CND 323	Public Health Nutrition
26	CND 411	Food Toxicology
27	CND 413	Functional Foods and Nutraceuticals
28	CND 414	Nutritional Genomics
29	CND 415	Food microbiology
30	CND 421	Methods of Investigation
18	CND 225	Hospital Dietetics-II
19	CND 311	Medical Nutrition Management-III



# **SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH**

**(A Deemed to be University declared under Section 3 of UGC Act 1956)**

**Comprising Sri Devaraj Urs Medical College**

**[Constituent unit of Sri Devaraj Urs Educational Trust for Backward Classes (Regd.)]**

**TAMAKA, KOLAR-563 103, KARNATAKA, INDIA**

Ph: 918152-243003, +91 9448395232, Fax : +918152 - 243008 E-mail – [registrar@sduu.ac.in](mailto:registrar@sduu.ac.in) / [office@sduu.ac.in](mailto:office@sduu.ac.in). Website: [www.sduu.ac.in](http://www.sduu.ac.in)

20	CND 312	Nutrition and Fitness
21	CND 313	Nutrition through life span-III
22	CND 315	Nutrition and Immunity
23	CND 321	Improving Health and Nutrition: IEC Approaches
24	CND 322	Food Preservation and Storage
25	CND 323	Public Health Nutrition
26	CND 411	Food Toxicology
27	CND 413	Functional Foods and Nutraceuticals
28	CND 414	Nutritional Genomics
29	CND 415	Food microbiology
30	CND 421	Methods of Investigation
31	CND 423	Instrumentation for Food Analysis
32	CND 425	Sensory Evaluation
33	CND 513	Current trends and Issues in food and Nutrition
34	CND 514	Nutrition in Critical Care
35	CND 523	Nutrition in Major Emergencies

## **ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)**

1	CND 116	English for Communication
2	CND 211	Environmental Science

## **SKILL ENHANCEMENT COURSES**

1	CND 121	Computer Science
2	CND 221	Entrepreneurship Development
3	CND 314	Dietary Counseling
4	CND 324	Institutional Food Administration
5	CND 325	Project cum Internship
6	CND 416	Minor Project
7	CND 512	Food Product Development

## **RESEARCH COURSES**

1	CND 326	Elementary Statistics
2	CND 412	Research Methodology
3	CND 422	Statistics and Computer Applications
4	CND 424	Research Methods in Food and Nutrition
5	CND 511	Dissertation (to be completed by II sem)
6	CND 521	Dissertation
7	CND 522	Scientific Writing



# **SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH**

**(A Deemed to be University declared under Section 3 of UGC Act 1956)**

**Comprising Sri Devaraj Urs Medical College**

**[Constituent unit of Sri Devaraj Urs Educational Trust for Backward Classes (Regd.)]**

**TAMAKA, KOLAR-563 103, KARNATAKA, INDIA**

Ph: 918152-243003, +91 9448395232, Fax : +918152 - 243008 E-mail - [registrar@sduu.ac.in](mailto:registrar@sduu.ac.in) / [office@sduu.ac.in](mailto:office@sduu.ac.in). Website: [www.sduu.ac.in](http://www.sduu.ac.in)

<b>DISCIPLINE SPECIFIC ELECTIVE COURSES</b>		
1	CND 126 (ANY ONE)	Yoga Therapy
		Food biotechnology
		Home based catering
2	CND 226 (ANY ONE)	Integrated Nutrition therapy for Diabetes
		Psychology
		Personality Development
3	CND 316 (ANY ONE)	Bakery Science
		Communication and Extension
		Socio-Economic Analysis of communities
4	CND 426 (ANY ONE)	Food packaging
		Resource Management
		Project Planning
5	CND 515 (ANY ONE)	Food Analysis
		Web designing
		Project Management