

ಸತಲೋಸಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)  
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Re-accredited by NAAC with 'A' Grade with CGPA 3.62/4  
Recognised by UGC as "College with Potential for Excellence"  
Conferred "College with "STAR STATUS" by DBT, Government of India.  
Centre for Research Capacity Building under UGC-STRIDE

Date: 16-02-2021

### NOTIFICATION

Sub: Syllabus of **B.Voc. in Software Development** Course under  
Credit Based Semester System.

Ref: 1. Decision of the Academic Council meeting held on 12-12-2020 vide  
Agenda No: 4  
2. Office Notification dated 16-02-2021

Pursuant to the above, the Syllabus of **B.Voc. in Software Development** under Credit  
Based Semester System which was approved by the Academic Council at its meeting held on  
12-12-2020 is hereby notified for implementation with effect from the academic year  
2021-22.

*S. Premal's*  
PRINCIPAL



*[Signature]*  
REGISTRAR

To:

1. The Chairman/Dean/HOD.
2. The Registrar Office
3. B.Voc. Office
4. Library

## B. VOCATIONAL PROGRAMME: Curriculum for Software Development

### B.Vocational (Diploma)- 1 Year

Semester-I	Category/ Mode	Subject	Theory Hours/ Week	Duration of Exams (Hrs)	Marks & Credits			
					IA	Exam	Total	Credit
General Education / General Component	Language -1:	Communication Skill-1	2	3	20	80	100	2
	Language - 2:	Kannada/Hindi	2	3	20	80	100	2
	Core paper- 1 Theory	Programming in C	3	3	20	80	100	3
	Core paper- 2 Theory	Information Technology Tools	3	3	20	80	100	3
	Elective Foundation	Environmental Science & Value Education	2	2	10	40	50	2
Skill Component	Practical-1	Programming in C Lab	6	3	30	120	150	6
	Practical-2	Information Technology Tools Lab	6	3	30	120	150	6
	Project/ Internship	Project-1	6		30 Viva	120	150	6
<b>Total</b>			<b>30</b>		<b>180</b>	<b>720</b>	<b>900</b>	<b>30</b>

### B.Vocational (Diploma)- 1 Year

Semester- II	Category/ Mode	Subject	Theory Hours/ Week	Duration of Exams (Hrs)	Marks & Credits			
					IA	Exam	Total	Credit

General Education / General Component	Language -1:	Communication Skill	2	3	20	80	100	2
	Language - 2:	Kannada/Hindi	2	3	20	80	100	2
	Core paper- 1 Theory	Web Designing	3	3	20	80	100	3
	Core paper- 2 Theory	Relational Database Management System	3	3	20	80	100	3
	Elective Foundation	Fundamental of Indian Constitution	2	2	10	40	50	2
Skill Component	Practical-1	Web Designing Lab	6	3	30	120	150	6
	Practical-2	Relational Database Management System Lab	6	3	30	120	150	6
	Project/ Internship	Project-2	6		30 Viva	120	150	6
<b>Total</b>			<b>30</b>		<b>180</b>	<b>720</b>	<b>900</b>	<b>30</b>

### B.Vocational (Advanced Diploma)-2 Year

Semester-III	Category/ Mode	Subject	Theory Hours/ Week	Duration of Exams (Hrs)	Marks & Credits			
					IA	Exam	Total	Credit

General Education / General Component	Language -1:	Business Communication	2	3	20	80	100	2
	Language - 2:	Kannada/Hindi (Skill Development)	2	3	20	80	100	2
	Core paper- 1 Theory	Java Programming	3	3	20	80	100	3
	Core paper- 2 Theory	Web Programming using PHP	3	3	20	80	100	3
	Elective Foundation	Fundamental of Business Law	2	2	10	40	50	2
Skill Component	Practical-1	Java Programming Lab	6	3	30	120	150	6
	Practical-2	Web Programming Lab	6	3	30	120	150	6
	Project/ Internship	Project-3	6		30 Viva	120	150	6
<b>Total</b>			<b>30</b>		<b>180</b>	<b>720</b>	<b>900</b>	<b>30</b>

### B.Vocational (Advanced Diploma)- 2 Year

Semester-IV	Category/Mode	Subject	Theory Hours/Week	Duration of Exams (Hrs)	Marks & Credits			
					IA	Exam	Total	Credit
General Education / General Component	Language -1:	English	2	3	20	80	100	2
	Language - 2:	Kannada/Hindi	2	3	20	80	100	2
	Core paper- 1 Theory	Data Structures using C	3	3	20	80	100	3
	Core paper- 2 Theory	Computer Network Security	3	3	20	80	100	3
	Elective Foundation	Gender Equity & Value Education	2	2	10	40	50	2
Skill Component	Practical-1	Data Structures Lab	6	3	30	120	150	6
	Practical-2	Computer Network Security Lab	6	3	30	120	150	6
	Project/ Internship	Project-4	6		30 Viva	120	150	6
<b>Total</b>			<b>30</b>		<b>180</b>	<b>720</b>	<b>900</b>	<b>30</b>

**B.Vocational (Degree)- 3 Year**

Semester- V	Category/ Mode	Subject	Theory Hours/ Week	Duration of Exams (Hrs)	Marks & Credits			
					IA	Exam	Total	Credit
General Education / General Component	Core paper- 1 Theory	Java 2 Enterprise Edition	3	3	20	80	100	3
	Core paper- 2 Theory	Computer Graphics & Multimedia	3	3	20	80	100	3
	Core paper- 3 Theory	Software Engineering	3	3	20	80	100	3
	Core paper- 4 Theory	Python Programming	3	3	20	80	100	3
Skill Component	Practical-1	Java 2 Enterprise Edition	6	3	30	120	150	6
	Practical-2	Python Programming	6	3	30	120	150	6
	Project/ Internship	Project-5	6		30 Viva	120	150	6
<b>Total</b>			<b>30</b>		<b>180</b>	<b>720</b>	<b>900</b>	<b>30</b>

**B.Vocational (Degree)- 3 Year**

Semester- VI	Category/ Mode	Subject	Theory Hours/ Week	Duration of Exams (Hrs)	Marks & Credits			
					IA	Exam	Total	Credit
General Education / General Component	Core paper- 1 Theory	Linux and Shell Programming	3	3	20	80	100	3
	Core paper- 2 Theory	Cloud computing	3	3	20	80	100	3
	Core paper- 3 Theory	Android Application Development	3	3	20	80	100	3
	Core paper- 4 Theory	Internet of Things Technology	3	3	20	80	100	3
Skill Component	Practical-1	Shell Programming and Wireframes	6	3	30	120	150	6
	Practical-2	Android Application Development Lab	6	3	30	120	150	6
	Project/ Internship	Project-6	6		30 Viva	120	150	6
Total			30		180	720	900	30