

# **SIDDHARTHA ACADEMY OF HIGHER EDUCATION**

(Deemed to be University)



## **SCHEME OF INSTRUCTIONS [SU24]**

**B.Sc. Degree Programme for students admitted from the  
Academic Year 2024-25**

### **SCHOOL OF SCIENCE**

**Kanuru, Vijayawada -520 007, Andhra Pradesh**

**[www.vrsiddhartha.ac.in](http://www.vrsiddhartha.ac.in)**

# SIDDHARTHA ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

## SCHOOL OF SCIENCE

### SCHEME OF INSTRUCTIONS FOR FIRST YEAR B.Sc.-UG PROGRAMME [SU24]

#### SEMESTER I

CONTACT HOURS: 25/W

S.No	Course Code	Type of the Course	Course Name	L	T	P	Credits
1.	24EN111	First Language	Communicative English - I	2	0	2	3
2.	24CA101	Major -1	Problem Solving using Python	3	0	3	4.5
3.	24MA111	Major -2	Calculus and Real Analysis	3	1	0	4
4.	24MA112	Multidisciplinary-1	Essential Statistics for Computer Science	2	0	2	3
5.	24CA181	Skill Enhancement Courses (SEC)-1	Office Automation Tools and Power BI Lab	1	0	3	2.5
6.	24CA182	VAC-1	AI Tools and Applications	1	0	2	2
			<b>Total</b>	<b>12</b>	<b>1</b>	<b>12</b>	<b>19</b>

#### SEMESTER II

CONTACT HOURS: 28/W

S.No	Course Code	Type of the Course	Course Name	L	T	P	Credits
1.	24EN181	First Language	Communicative English - II	1	0	4	3
2.	24CA104	Major -3	C and Data Structures	3	0	2	4
3.	24CA105A	Minor-1 (Elective)	Data Science domain	3	0	2	4
	24CA105B		Artificial Intelligence domain				
	24CA105C		Cyber Security domain				
4.	24CO102	Multidisciplinary-2	Principles of Accounting	2	0	2	3
5.	24MA116	Skill Enhancement Courses (SEC)-2	Statistical Data Analysis using R	2	0	2	3
6.	24CY111	VAC-2	Environmental Studies	2	0	0	2
7.	24UC183	VAC-3	Yoga Education	1	0	2	2
			<b>Total</b>	<b>14</b>	<b>0</b>	<b>14</b>	<b>21</b>

Students on exit shall be awarded Undergraduate Certificate (in the Field of Study/ Discipline) after securing the requisite 40 credits in Semesters I and II

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### SCHEME OF INSTRUCTION FOR SECOND YEAR B.Sc.-UG PROGRAMME [SU24]

#### SEMESTER III

CONTACT HOURS: 23/W

S.No	Course Code	Type of the Course	Course Name	L	T	P	Credits
1.	24HS201(T)	Second Language	Telugu	2	0	0	2
	24HS201(H)		Hindi				
2.	24CA201	Major -4	Object Oriented Programming using Java	3	0	2	4
3.	24MA211	Major -5	Linear Algebra and Discrete Mathematics	3	1	0	4
4.	24CA202A	Minor-2 (Elective)	Data Science domain	3	0	2	4
	24CA202B		Artificial Intelligence domain				
	24CA202C		Cyber Security domain				
5.	24CA203	Multidisciplinary-3	Cognitive Science	2	1	0	3
6.	24CO203	Skill Enhancement Courses (SEC)-3	Digital Marketing	2	0	2	3
<b>Total</b>				<b>15</b>	<b>2</b>	<b>6</b>	<b>20</b>

#### SEMESTER IV

CONTACT HOURS: 25/W

S.No	Course Code	Type of the Course	Course Name	L	T	P	Credits
1.	24CA205	Major -6	Database Management Systems	3	0	2	4
2.	24CA206	Major -7	Web Application Development using PHP and MySQL	3	0	2	4
3.	24MA216	Major -8	Probability	3	0	2	4
4.	24CA207A	Minor-3 (Elective)	Data Science domain	3	0	2	4
	24CA207B		Artificial Intelligence domain				
	24CA207C		Cyber Security domain				
5.	24CA208A	Minor-4 (Elective)	Data Science domain	3	0	2	4
	24CA208B		Artificial Intelligence domain				
	24CA208C		Cyber Security domain				
<b>Total</b>				<b>15</b>	<b>0</b>	<b>10</b>	<b>20</b>

Students exiting the programme after securing 80 credits will be awarded UG Diploma in the relevant Discipline /Subject provided they secure additional 4 credit in skill based vocational courses offered during first year or second year summer term.

1.	24SI281	Summer Internship	Total	0	0	8	4
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