

VALUE ADDED COURSE

Department of Computer Science , I.T and Computer Applications



- Live Projects
- Extended Lab Support
- Hands on-training

ADVANCED JAVA

Programming

STARTS FROM

DECEMBER 2021 to May 2022

- 1 Year B.Sc Computer Science
- 1 Year B.Sc Information Technology
- 1 Year Bachelor of Computer Applications

- 1 Year M.Sc Computer Science
- 1 Year M.Sc Information Technology
- 1 Year M.Sc Mathematics



Inlustro Training Pvt Ltd.,
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Shrimati Indira Gandhi College
website : <https://www.sigc.edu/>
Mail : Contact@sigc.edu



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Curriculum

Advanced JAVA

Second Semester

Academic Year 2021 - 2022

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ADVANCED JAVA

SYLLABUS

OBJECTIVES OF THE COURSE

- Understand and use basic and advanced features of the Java programming language, including control structures, data types, object-oriented concepts, interfaces, generics, and functional programming.
- Understand and implement concurrency in Java through the use of threads, the Executor framework, and thread-safe programming techniques.
- Understand and apply design patterns in Java to solve common programming problems and improve the design of the software.
- Understand and apply object-oriented analysis and design principles and best practices for designing large-scale systems in Java, including class design, UML diagrams, and garbage collection and memory management.

Unit 1: Basic Java

- Introduction to Java and its basic syntax
- Primitive data types and control structures
- Arrays and ArrayLists
- Methods and parameters
- Basic object-oriented concepts

Unit 2: Advanced Java

- Interfaces and abstract classes
- Inheritance and polymorphism
- Exception handling
- Generics
- Enumerations and annotations
- Streams and functional programming

Unit 3: Concurrency

- Introduction to concurrency in Java
- Threads and Runnable interface
- Synchronization and locks
- Executor framework
- Concurrent data structures
- Thread-safe programming

Unit 4: Design Patterns

- Introduction to design patterns
- Creational patterns (e.g. Singleton, Factory, Builder)
- Structural patterns (e.g. Adapter, Decorator, Facade)
- Behavioral patterns (e.g. Observer, Template Method, State)
- Examples of how to use design patterns in Java

Unit 5: Object-Oriented Analysis and System Design

- Object-oriented analysis and design principles
- UML diagrams and class design
- Design patterns for system design
- Garbage collection and memory management
- Best practices for designing large-scale systems in Java

COURSE LEARNING OUTCOMES

- Upon completion of the course, students will be able to write Java programs using various control structures, data types, and object-oriented concepts, including interfaces, generics, and functional programming.
- Students will be able to design and implement concurrent Java programs using threads, the Executor framework, and thread-safe programming techniques.
- Students will be able to recognize and apply common design patterns in Java to improve the design and maintainability of their code.
- Students will be able to design and implement large-scale systems in Java using object-oriented analysis and design principles, class design, UML diagrams, and best practices for garbage collection and memory management.

Teacher: Pavani Scinde





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Mark Sheet

Advanced JAVA

Second Semester

**Academic Year
2021 - 2022**

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Inlustro Learning Private Limited							
I BSc (CS)							
S.NO.	NAME	MID-TERM EXAM	FINAL EXAM	OVERALL MARKS FOR 100	Attendance	Grade	
1	N.Jagadeshwari	35	20	36	10	B-	Pass
2	A. Dharanya	20	30	33	7	B-	Pass
3	G.Ilakkiya	36	20	37	5	B-	Pass
4	J.Farhath Jabeen	20	20	30	5	C	Pass
5	M.Durga Devi	0	0	0	6	F	Fail
6	K.Bhuvana	34	14	32	5	C	Pass
7	D.Gomathi	31	10	30	10	C	Pass
8	S.Agila	42	10	34	6	B-	Pass
9	S.S.Dharani	40	18	38	7	B-	Pass
10	R.Gayathri	39	10	32	7	C	Pass
11	S.Deepthi	30	13	30	9	C	Pass
12	K.Deepadharshini	34	21	36	8	B-	Pass
13	P.Abinaya	13	5	12	5	F	Fail
14	S.Ashifa Begam	36	5	30	7	C	Pass
15	M.Karthika	40	18	38	6	B-	Pass
16	M.Deva Dharshini	25	19	30	6	C	Pass
17	S.Kavitha	31	25	37	6	B-	Pass
18	N.Jerin Florida	43	28	47	5	B	Honours
19	M.Anulega	26	15	30	6	C	Pass
20	S.Iswarya Lakshmi	27	15	30	10	C	Pass
21	N.Indumathi	30	11	30	7	C	Pass
22	S.Harini	30	14	30	5	C	Pass
23	S.Gopika	41	28	46	5	B	Honours
24	A.Jenifer	26	15	31	5	C	Pass
25	V.Gayathri	30	15	30	8	C	Pass
26	A.Deepika	30	20	33	5	B-	Pass
27	C.Kalpana	26	15	32	7	C	Pass
28	A.Abinaya	34	7	33	5	C	Pass
29	B.Aarthi	36	32	45	10	B	Honours
30	S.Harshitha	20	20	32	6	C	Pass

31	R.Deva Dharshini	61	37	65	10	A	High Honours
32	B.Juvitha	44	19	42	6	B-	Pass
33	C.Deepika	44	21	43	5	B	Honours
34	T.Brundha	44	8	34	5	B-	Pass
35	S.Bavatharini	30	14	30	10	C	Pass
36	P.Dharshini	34	7	31	9	C	Pass
37	N.Janani Priya	22	18	32	9	C	Pass
38	N.Anna Lakshmi	38	3	32	6	C	Pass
39	R.Jenifer Velankanni	26	18	30	9	C	Pass
40	K.Kayalvizhi	20	20	32	7	C	Pass
41	D.Gayathri	26	15	35	5	C	Pass
42	B.Kalanithi	10	30	32	9	C	Pass
43	S.Dharshini	30	10	32	10	C	Pass
44	R.Kamatchi	45	31	50	8	B	Honours
45	K. Jayalakshmi	0	0	0	6	F	Fail
46	K.Puranija	17	26	30	8	C	Pass
47	R.Subikshapriya	18	28	30	10	C	Pass
48	S.Savarmathi	33	27	40	5	B-	Pass
49	G.Sangavi	47	29	50	8	B	Honours
50	R.Sona	18	29	31	6	C	Pass
51	D.Priyadarshini	20	22	30	8	C	Pass
52	A.S.Padma	12	29	30	5	C	Pass
53	P.Shobana	26	31	38	6	B-	Pass
54	P.Saraswathi	25	18	32	5	C	Pass
55	K.Poornima	38	35	48	7	B	Honours
56	P.Sangeetha	26	26	34	7	B-	Pass
57	D.Narmadha	37	13	33	6	B-	Pass
58	N.Ruthra	32	30	41	8	B-	Pass
59	M.L.Mubeenunisa	46	38	56	10	A-	High Honours
60	B.Maha Lakshmi	54	30	56	8	A-	High Honours
61	M.Swetha	23	19	31	8	C	Pass
62	K.Yashini	20	26	30	10	C	Pass
63	K.Saraswathi	18	22	35	9	C	Pass

64	K.Yamuna Devi	36	22	38	7	B-	Pass
65	B.Keerthika	37	11	32	9	C	Pass
66	T.Swathy	14	26	30	9	C	Pass
67	S.Srinithi	20	28	32	5	C	Pass
68	C.Pavithra	42	21	42	6	B-	Pass
69	S.Subhasini	25	21	30	9	C	Pass
70	G.Swetha	20	22	31	5	C	Pass
71	R.Madhumitha	32	14	30	5	C	Pass
72	G.Sadhana	50	36	57	7	A-	High Honours
73	S.Rishvini	26	24	33	9	B-	Pass
74	R.Shalini	33	17	33	9	B-	Pass
75	B.Mangalam	22	25	31	5	C	Pass
76	R.Vaishnavi	38	24	41	7	B-	Pass
77	Mu.Nithyashree	39	29	45	8	B	Honours
78	M.Parkavi	39	19	38	5	B-	Pass
79	S.Priyadarshini	40	34	49	9	B	Honours
80	S.Priyadarshini	36	28	42	7	B-	Pass
81	S.Priyadarshini	36	31	44	10	B	Honours
82	K.Priya Ishwarya	33	29	41	9	B-	Pass
83	T.Priyanka	62	0	41	6	B-	Pass
84	T.Priyadarshini	47	0	31	6	C	Pass
85	Vishnupriya	18	0	12	10	F	Fail
86	Muthukumaran	0	0	0	10	F	Fail
87	R.Keerthana	27	13	30	5	C	Pass
88	R.Rajarajeshwari	22	18	32	7	C	Pass
89	M.Vishnu Priya	43	0	32	5	C	Pass
90	M.Monika	22	22	30	5	C	Pass
91	V.Prathina	38	10	32	10	C	Pass
92	R.Nithya Iswarya	34	0	22	8	F	Fail

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I BCA

S.NO.	NAME	MID-TERM EXAM	FINAL EXAM	OVERALL MARKS FOR 100	Attendance	Grade	
1	R.Vishali	57	35	61	9	A	High Honours
2	S.Tulasi	63	24	58	9	A-	High Honours
3	B. Thailammai	66	25	60	10	A	High Honours
4	S.Sree Lakshmi Kiruthika	38	14	34	10	B-	Pass
5	V.Shalini	45	12	38	5	B-	Pass
6	A.Saraswathi	84	13	64	6	A	High Honours
7	P.Jeevitha	61	20	54	5	A-	High Honours
8	K.Nandhini	20	25	30	6	C	Pass
9	A.Nandhini	74	19	62	6	A	High Honours
10	R. Madhusri	55	14	46	10	B	Honours
11	S.Karthika	46	33	52	10	B	Honours
12	S.Jyothika	0	12	8	5	F	Fail
13	S.Joshi Evangeline	54	20	49	10	B	Honours
14	S.Arivunithi	38	25	42	8	B-	Pass
15	S.Sarika	40	16	37	8	B-	Pass
16	N.Rajasree	51	20	47	6	B	Honours
17	S.Abinaya	53	33	57	7	A-	High Honours
18	A.Subhanu	38	30	45	9	B	Honours
19	R.Navya	45	9	36	6	B-	Pass
20	B.V.Akshaya	33	31	42	10	B-	Pass
21	R.Kamatchi	36	26	41	10	B-	Pass
22	R.Indhuvarshini	42	16	38	10	B-	Pass
23	G.Keerthika	38	19	38	10	B-	Pass
24	M.Dharanya	52	18	46	9	B	Honours
25	S.Bhavadharani	66	18	56	9	A-	High Honours
26	J.Sheela Devi	0	20	13	7	F	Fail
27	P.Reebika	33	15	32	9	C	Pass
28	R.Divya	36	14	33	5	B-	Pass
29	N.Dheena	72	25	64	10	A	High Honours
30	E.Arockia Jasmine Abinaya	63	27	60	8	A	High Honours

31	J.Caroline Chrysolite	44	34	52	5	B	Honours
32	G.Lavanya	48	18	44	6	B	Honours
33	S.Deepika	54	33	58	6	A-	High Honours
34	R.Sneeka	60	25	56	9	A-	High Honours
35	S.Arthi	52	29	54	8	A-	High Honours
36	S.Saranya	45	30	50	10	B	Honours
37	S.Ramya	50	27	51	5	B	Honours
38	V. Abinaya	30	12	30	6	C	Pass
39	S.Priyadarshini	56	18	49	5	B	Honours
40	S.Kavitha	61	22	55	7	A-	High Honours
41	A.Sindhuja	30	13	28	9	C	Pass
42	D.Arockiya Ligifemina	46	40	57	5	A-	High Honours
43	A.Abirami	54	24	52	9	B	Honours
44	S.Harini	30	25	36	8	B-	Pass
45	J.Kabisiya	52	35	58	5	A-	High Honours
46	M.Kanishka	47	20	44	5	B	Honours
47	K.Keerthana	31	5	30	6	F	Pass
48	V.Yogashri	48	46	62	8	A	High Honours
49	S.Uma Maheswari	60	30	60	5	A	High Honours
50	K.Udhaya	36	28	42	7	B-	Pass
51	S.Swetha	57	19	50	7	B	Honours
52	M.Subitza	39	20	39	8	B-	Pass
53	T.Subalakshmi	73	25	65	6	A	High Honours
54	M.Malar Vizhy	68	13	54	6	A-	High Honours
55	S.Preethi	40	24	42	9	B-	Pass
56	R.Ramya	68	35	68	5	A	High Honours
57	B.Sindhuja	65	23	58	7	A-	High Honours
58	S.Sowmiya	30	16	30	10	C	Pass
59	R.Siva Sangari	62	18	53	5	A-	High Honours
60	T.Kaviya	42	10	34	9	B-	Pass

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I BSc(IT)							
S.NO.	NAME	MID-TERM EXAM	FINAL EXAM	OVERALL MARKS FOR 100	Attendance	Grade	
1	P.Jaya Bharathy	54	31	56	10	A-	High Honours
2	H.Joshini	47	7	36	5	B-	Pass
3	S.Nandhana	33	23	37	8	B-	Pass
4	R.Reshmi	48	24	48	6	B	Honours
5	R.Sowmiya	35	27	41	9	B-	Pass
6	A.Thirisha	38	25	42	7	B-	Pass
7	M.V.Sona	67	42	72	6	A	High Honours
8	K.Ilakkiya	27	15	28	8	C	Pass
9	N.Poojashree	57	36	62	10	A	High Honours
10	V.Prathiksha	53	33	57	6	A-	High Honours
11	A.Revathi	29	16	30	9	C	Pass
12	M.Kiruthika	22	22	30	7	C	Pass
13	N.Loshini	54	32	57	7	A-	High Honours
14	B.Janani	24	23	31	8	C	Pass
15	A.Krithika	37	16	35	6	B-	Pass
16	S.Vaishali	29	32	40	10	B-	Pass

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I MSc(CS)							
S.NO.	NAME	MID-TERM EXAM	FINAL EXAM	OVERALL MARKS FOR 100	Attendance	Grade	
1	J.Priyadarshini	68	9	51	8	B	Honours
2	R.Prammasri	82	35	78	7	A	High Honours
3	T.Sushma	59	14	48	9	B	Honours
4	V.Dharini	90	32	81	7	A	High Honours
5	M.Shalini	72	25	64	5	A	High Honours
6	V.Mahalakshmi	90	13	68	5	A	High Honours
7	N.Nivethapriya	79	19	65	6	A	High Honours
8	S.Yogeswari	58	10	45	8	B	Honours
9	S.Priyadarshini	68	15	55	10	A-	High Honours
10	D.Sindhu	61	19	53	7	A-	High Honours
11	S.Archana	67	18	56	8	A-	High Honours
12	B.Subalakshmi	62	18	53	5	A-	High Honours
13	E.Brindha	70	8	52	10	B	Honours
14	D.Sowmiya Lakshmi	71	9	53	9	A-	High Honours
15	R.Akshiya	85	16	67	9	A	High Honours
16	V.Kaviya		28	18	8	F	Fail
17	N.Kavya	78	20	65	6	A	High Honours
18	B.Bavadharini	86	7	62	10	A	High Honours
19	K.Madhumitha	65	31	64	5	A	High Honours
20	G.Poornima	46	7	35	10	B-	Pass
21	K.Abarna	70	24	62	9	A	High Honours
22	K.Ishwarya	89	31	80	7	A	High Honours
23	K.Kanishka	72	3	50	7	B	Honours
24	S.Janansri	92	37	86	6	A	High Honours
25	R.Susmitha	54	23	51	7	B	Honours
26	N.Mani Bharathi	66	35	67	9	A	High Honours
27	S.Logeswari	89	28	78	8	A	High Honours
28	D.Sophiya	64	27	60	9	A	High Honours
29	R.K.Jaysree	74	0	49	10	B	Honours
30	D.Aparna	90	0	60	6	A	High Honours

31	M.Gokila	70	0	46	8	B	Honours
32	R.Harini	81	0	54	10	A-	High Honours

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I MSc(IT)							
S.NO.	NAME	MID-TERM EXAM	FINAL EXAM	OVERALL MARKS FOR 100	Attendance	Grade	
1	S.Vaishnavi	56	19	50	5	B	Honours
2	H.Sneka	63	28	60	7	A	High Honours
3	R.Sharumathi	54	28	54	8	A-	High Honours
4	K.Madhumeetha	63	31	62	5	A	High Honours
5	S.Indhupriya	41	18	39	8	B-	Pass
6	P.Durga	28	3	30	9	F	Pass
7	M.Abirami	45	13	38	10	B-	Pass
8	R.Anusuya	64	22	57	9	A-	High Honours
9	V.Sneha	37	13	33	5	B-	Pass
10	R.Kiruthiga	70	0	46	9	B	Honours
11	G.Nandhini	55	17	48	10	B	Honours
12	R.Rajeswari	50	0	33	8	B-	Pass
13	J.Santhiya	61	26	58	8	A-	High Honours
14	P.Maanisha	40	22	41	7	B-	Pass
15	N.Varsha	50	0	33	9	B-	Pass
16	A.Aruljayapriya	47	0	31	10	C	Pass

Inlustro Learning Private Limited							
I MSc Maths							
S.NO.	NAME	MID-TERM EXAM	FINAL EXAM	OVERALL MARKS FOR 100	Attendance	Grade	
1	D.Pravitha	44	12	37	9	B-	Pass
2	E.Shalini	30	10	31	5	C	Pass
3	R.Arthi	38	10	32	8	C	Pass
4	S.Nivetha	47	10	38	9	B-	Pass
5	D.Agalya	29	12	30	9	C	Pass
6	P.Sukriya	44	9	35	6	B-	Pass
7	S.Durga Devi	37	9	30	6	C	Pass
8	K.Kesava Priya	21	20	31	10	C	Pass
9	S.Nandhini	29	21	33	6	B-	Pass
10	B.Indhumukhi	37	27	42	5	B-	Pass
11	S.Hema	32	10	32	6	C	Pass
12	M.Preethi	37	6	32	5	C	Pass
13	A.Keerthika	38	6	30	8	C	Pass
14	S.Manju Priya	40	12	34	8	B-	Pass
15	R.Swetha	33	10	28	6	C	Pass



Shiva Pawani



CERTIFICATE

OF COMPLETION



This Certifies that

R.Harini

I **MSc CS** at **Shrimati Indira Gandhi College**, has successfully completed the **Advanced JAVA** course (**January 2022 to May 2022**) and has passed with **High Honours**

Aditya Sambamoorthy

Founder & CEO

InLustro