

# **IITM Student Handbook**

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# Preface

## References

Knuth, Donald E. 1984. “Literate Programming.” *Comput. J.* 27 (2): 97–111. <https://doi.org/10.1093/comjnl/27.2.97>.

## Notice

# 1 Data Science & Applications

IIT Madras has launched the **BS in Data Science and Applications**. In this program, the course contents are delivered online and can be studied by anyone from anywhere, while the monthly quizzes and final semester exams will have to be attended *in-person* at designated centres.

Depending on the number of courses completed, learners can earn:

- a Foundation level certificate
- Diploma in Programming / Diploma in Data Science / both
- BSc degree in Programming and Data Science
- BS degree in Data Science and Applications

## 1.1 1. Highlights of the Programme

Courses are taught by faculty of IIT Madras, other reputed institutes, and experts from the industry.

Unlike many competitive admission exams which work on the philosophy of elimination and selection — admitting a very limited number of learners based on relative performance — this programme follows **qualifying criteria**, allowing a significantly large number of learners to enroll.

Learners from **any background** — engineering, sciences, humanities, arts, medicine, law, etc. — can attempt and join this programme.

There are **no restrictions on age or geographical location**.

## 2 Flexibility

There are two entry and four exit points, with learners being able to exit with either course certificates, or diploma or the degree. Learners can choose their pace of study every term. Being an online programme, there is no geographical barrier to learning from this programme — learners only need to travel to exam centres for exams each term.

**IT IS IMPORTANT TO NOTE:** This programme is **NOT BASED** on an admission process. Qualified learners can attempt respective stages of the programme and those who clear each stage will receive the certificate corresponding to that stage alone.

For example, the learner should be aware that they are **not being admitted to a degree programme after the Qualifier**. It is only for the set of Foundation courses, which on successful completion makes them eligible to enter the Diploma level.

The diplomas or degrees are obtained by the candidate **only when** the requisite number of credits are accrued by completing the courses prescribed and satisfying any other mandatory criteria.

Admission to any level **does not automatically entitle** the learner to exit the programme with the Diploma or the degree.



## **3 Courses in the programme**

### **3.1 Definition of Credit in the Program**

The credits here are based on the UGC system of counting 14 hours of learner engagement as 1 credit. (1 credit mentioned here would be equivalent to 3 credits in the current IITM campus Credit system.)

The number of credits required to graduate with the BSc is 114 while that for the BS is 142. The structure of the program is as follows:

### **3.2 Level 1: The Foundation Level**

- Comprises 8 courses: English 1, English 2, Mathematics 1, Mathematics 2, Statistics 1, Statistics 2, Computational Thinking, Introduction to Python
- Number of credits: 32

### **3.3 Level 2: Diploma Level**

- Includes 2 Diplomas: Diploma in Programming and Diploma in Data Science
- Each diploma comprises 6 courses (23 credits) and 2 project courses (4 credits)
- Number of credits: 54

#### **3.3.1 Diploma in Programming**

- Database Management Systems (DBMS), Programming Data Structures and Algorithms using Python (PDSA), Java Programming, System Commands, Application Development – 1, Application Development – 2

- Project course in Application Development – 1
- Project course in Application Development – 2

### **3.3.2 Diploma in Data Science**

- Machine Learning Foundations (MLF), Machine Learning Techniques (MLT), Machine Learning Practice (MLP), Business Data Management (BDM), Business Analytics (BA), Tools in Data Science (TDS)
- Project course in Business Data Management
- Project course in Machine Learning Practice

(Those students who fall short of the 54 credits in the Diploma level (temporary, for a few students) will have to do additional courses in the BSc level to make up for the deficit in credits. A student will be eligible for the BSc degree only if they complete 114 credits as per the norms given.)

## **3.4 Level 3: BSc Degree Level Courses**

- Total of 28 credits
- Mandatory 2 core pairs (Software Engineering, Software Testing, Artificial Intelligence and Deep Learning)
- Mandatory course: Strategies for Professional Growth
- Maximum of 4 credits can be obtained from NPTEL, technical bucket

## **3.5 Level 4: BS Degree Level Courses**

- Total of 28 credits
- Option of Apprenticeship – for 4/12 credits
- Mandatory to earn 4 credits from HS/MG stream, from NPTEL or program electives
- 2 level 4 courses in programming stream and 2 level 4 courses in the data science stream should be mandatorily completed

Apprenticeship has been split into 2 courses – one of 4 credits that corresponds to the 4-month internship and another as 8 credits for the term of apprenticeship that is continued from months 5–8 in the same company and domain.

Apprenticeship is optional and one can earn 0/4/8/12 credits from it.

- The list of courses in
  - Table 1: List of electives offered in the program
  - Table 2: List of NPTEL electives that can be credited at the BSc level
  - Table 3: List of HS/MG electives that can be credited from NPTEL

The list of courses in the 3 tables here are subject to periodic revision.

- Refer Credit Transfer for NPTEL Courses for process and credit transfer fee.

The course code defines the level of the course. If the course code is 2xxx, 3xxx, or 4xxx then the level of the course is 2, 3, or 4 respectively.

The fee for the level 3 courses is Rs 2500/credit while that of level 4 courses is Rs 5000/credit.

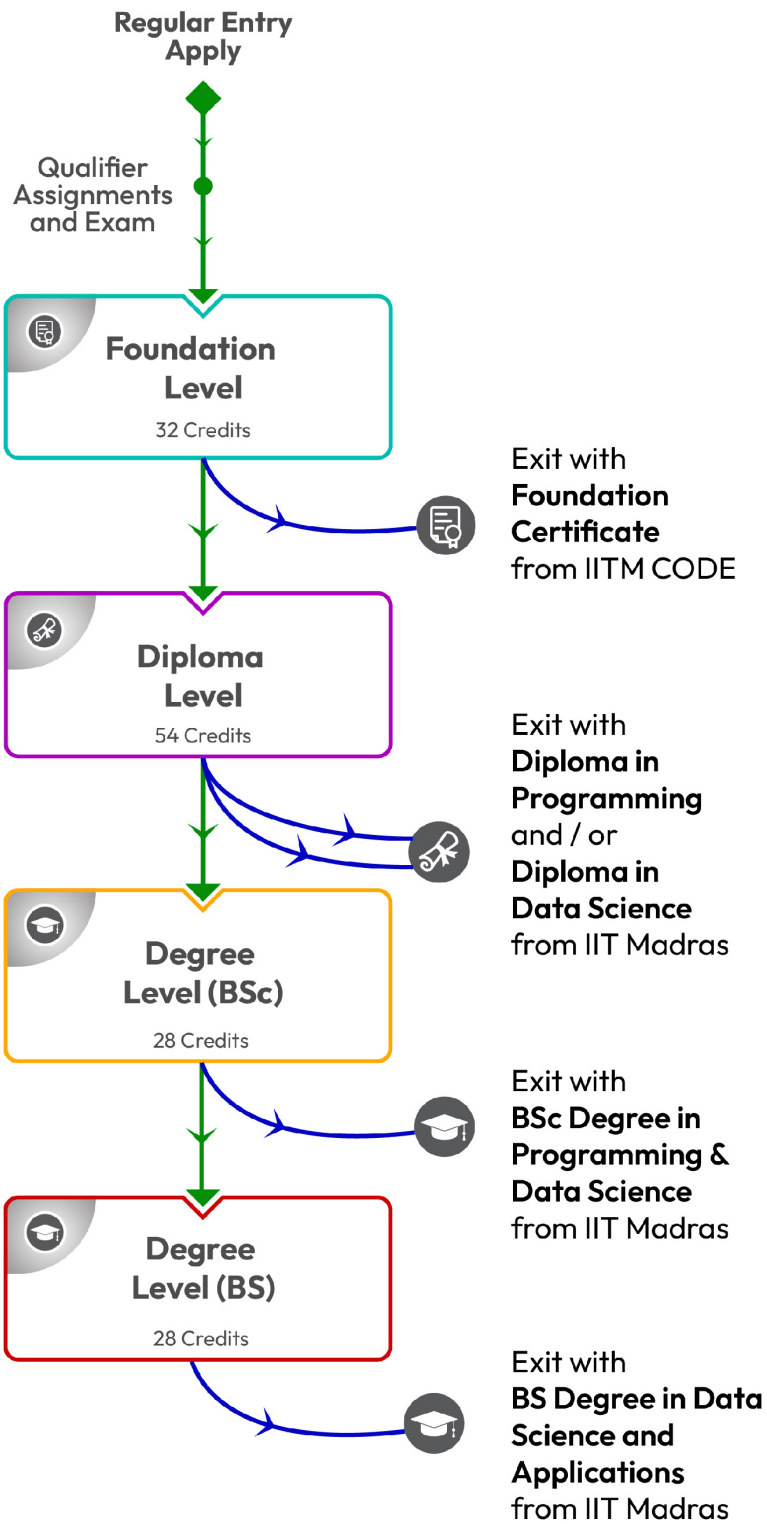
#### **Minor in Economics and Finance:**

The minor in Economics and Finance can be earned by completing 2 mandatory courses, namely Corporate Finance and Managerial Economics, and one elective course from the list below, to which more courses will be added shortly.

Game Theory and Strategy (Elective already available)

These 3 courses can be credited within the 142 credits required for the BS degree. The Minor can be earned only with the BS degree and not the BSc degree.

A separate document will be issued by IITM stating that the Minor has been completed. There will be no change in transcript or the degree certificate for those who do the minor.



## 3.6 TODO

- ☐ make Those students who fall short a call out block
- ☐ Link Table The list of courses in
- ☐ Credit transfer to nptel link needs to be updated

## 4 Fees for the entire programme

- First year fees kept low to enable learners to try out the programme
- Entry fee for Qualifier exam: Rs. 3000 (non-refundable) - with suitable waivers
- Fee waivers for learners belonging to certain categories and economic backgrounds

Number of credits in each level:

Level	Theory	Project	Apprenticeship	NPTEL	MG/HS/HM
Foundation	32				
Diploma in DS	23	4			
Diploma in P	23	4			
BSc	28-X			X (0-4)	
BS	28-A-B		A (0/4/12)		B=4

**\*Only maximum of 24 credits can be transferred towards non counted CGPA course**

**Foundation: Rs 32000/-**

**Diploma Level:  $62500 \times 2 = \text{Rs } 125,000/-$**

**BSc Level: Rs 2.21L - 2.47L**

**BS Level: 3.25L - 3.87L**

Cost per credit (Rs)	Number of credits	Total fee	Level fees
1000/c	32c	32000	32,000
2500/c for Theory 1250/c for project	$23 \times 2 = 46c$ $4 \times 2 = 8c$	115,000 10,000	125,000

	Cost per credit (Rs)	Number of credits	Total fee	Level fees
BSc	Level 3 - Rs 2500/c Level 4 - Rs 5000/c for NPTEL	20c for 5 mandatory courses (Level 3) 4c NPTEL+4c Level 3 4c NPTEL + 4c Level 4 8c Level 3 4c Level 3 + 4c Level 4 8c Level 4	50000 4000+10000 4000+20000 20000 30000 40000	64,000 74,000 70,000 80,000 90,000
BS	Level 3 - Rs 2500/c Level 4 - Rs 5000/c for NPTEL	2 Level 4 mandatory DS = 8c 2 Level 4 mandatory DP = 8c 4c NPTEL + 8c Level 3 4c NPTEL + 4c Level 3 + 4c Level 4 4c NPTEL + 8c Level 4 12c Level 3 12c Level 4	40000 40000 4000+20000 4000+30000 4000+40000 30000 60000	104000 114000 124000 110000 140000

Fee waivers depend on the category of learner and family income

	Family Income > 5 LPA		Family Income > 1 LPA and <= 5 LPA		Family Income <= 1 LPA	
	<b>Fees</b>	<b>Docs Required</b>	<b>Fees</b>	<b>Docs Required</b>	<b>Fees</b>	<b>Docs Required</b>
General	Full Fee	NIL	50% waiver	EWS + Family Income	75% waiver	EWS + Family Income
OBC	Full Fee	NIL	50% waiver	OBC-NCL + Family Income	75% waiver	OBC-NCL + Family Income
SC / ST	50% waiver	SC / ST	50% waiver	SC / ST	75% waiver	SC / ST + Family Income
PwD	50% waiver	PwD	50% waiver	PwD	75% waiver	PwD + EWS / OBC-NCL + Family Income
SC / ST + PwD	75% waiver	SC / ST + PwD	75% waiver	SC / ST + PwD	75% waiver	SC / ST + PwD

### **SBI Loan Process:**

Please contact Martina/Angelin Ph No 9444020900/8608076093, for any help.

**Rate of interest starts from 8.10% with no collateral security and simple interest till course completion**

- Loan is given to students along with any one parent, Father or Mother.
- Student is known as Borrower and the parent who is taking out a loan with the student will be known as Co-borrower.
- Student and co borrower both should have EITHER JOINT ACCOUNT IN SBI (any branch) or Separate accounts in SBI.
- We will provide you Application form which needs to be filled digitally. Once filled, you need to take coloured print and sign the documents wherever needed. Also attach the documents as per LIST OF DOCUMENTS given below.
- Application Print, and documents must be sent to following address using INDIA POST courier. 1st Cross Road, CAMPUS, Indian Institute of Technology, Chennai 600036

## **4.1 For students who are outside India:**

Facilitation fee for exams is in addition to the above for candidates writing exams overseas - as fixed up with the local exam partner there. These are subject to periodic changes depending on the local exam partner identified.

### **Facilitation Fee**

Quiz1 [irrespective of num of courses] = Rs.2000/-

Quiz2 [irrespective of num of courses] = Rs.2000/-

End term [per session] = Rs.2000/- [one course it is Rs.2000/- & more than one course it is Rs. 4000/-]

E.,g If you opt for 4 courses

Quiz1 = 2000, Quiz2 = 2000, EndTerm = 4000

Totally 8000 to be paid as a facilitation fee

\*Facilitation fee may vary based on country. Eg: Kuwait & Bahrain it is Rs. 3000/-

## **4.2 TODOs**

**TODO:**



- ☐ Confirm breakdown of Level 3 and Level 4 course credits for BSc and BS rows
- ☐ Replace variables like X, A, and B with specific values if available
- ☐ Validate ranges in “Level Fees” columns with official records
- ☐ Verify the latest contact and address details for SBI Loan process
- ☐ Update facilitation fee figures if newer data is published

## 5 Learning Paths Overview

### 5.1 13. Learning paths available

Here are some suggested learning paths:

1. Foundation course certificate
2. Diploma in Programming
3. Diploma in Data Science
4. Diploma in Programming and Data Science
5. BSc degree in Programming and Data Science

	Term	Foundation	Plan for One Diploma	Plan for Both the Diplomas	BSc Degree	BS Degree	Shortest Path for BSc Degree
<b>Year 1</b>	Term 1	3	1	1	2	2	4
	Term 2	2	2	2	3	3	4
	Term 3	3	2	2	3	3	4
<b>Year 2</b>	Term 1		2	2	3	3	4
	Term 2		1	2	2	2	4
	Term 3		2	2	2	2	4
<b>Year 3</b>	Term 1		1	1	3	3	4
	Term 2		1	2	3	3	3

	Term	Foundation	Plan for One Diploma	Plan for Both the Diplomas	BSc Degree	BS Degree	Shortest Path for BSc Degree
<b>Year 4</b>	Term 3		2	1	2	2	
	Term 1			2	3	3	
	Term 2			2	2	2	
	Term 3			1	3	3	
<b>Total Courses</b>		8	14	20	31		31

## 5.2 13.1 Prerequisite course requirements

### 5.2.1 Foundation courses

Level	Course	Pre-req	Coreq
<b>Foundation</b>	Maths 1	-	-
	Statistics 1	-	-
	English 1	-	-
	CT	-	-
	Maths 2	Maths 1	
	Statistics 2	Statistics 1	Maths 2
	English 2	English 1	
	Intro to Python	CT	

#### Note

- A co-requisite for Statistics-2 is Maths-2. So either Maths-2 has to be done before Statistics-2 or both can be taken together. Statistics-2 cannot be done without having done Maths-2.
- All the 8 Foundation courses should be completed before the candidate can register to any Year 2 Diploma level course.

### 5.2.2 Diploma level courses

Level	Course	Pre-req	Coreq
<b>Diploma in DS</b>	MLF	-	-
	BDM	-	-
	MLT		MLF
	MLP	MLT, MLF	
	BA	BDM	
	TDS		MLF
<b>Diploma in Prog</b>	DBMS	-	-
	PDSA	-	-
	App dev 1	-	DBMS
	Java	-	-
	App dev 2	App dev 1	
	SC	-	-

Without completing all the 8 Foundation courses and the 12 Diploma level courses plus 4 project courses, one cannot proceed to register for Year 3 Degree level courses.

## 5.2.3 Degree Level Courses

Course ID	Course Level	Course Name	Course Type	Co-requisite Code	Prerequisite code	May2024	Sep2024	Jan 2025	CourseFee
BSCS3001	DEGREE	Software Engineering	Core_CP			Y	Y	Y	10K
BSCS3002	DEGREE	Software Testing	Core_BP			Y	Y	Y	10K
BSCS3003	DEGREE	AI Search Methods for Problem Solving	Core_BD			Y	Y	Y	10K
BSCS3004	DEGREE	Deep Learning	Core_BD			Y	Y	Y	10K
BSCN3001	DEGREE	Strategies for Professional Growth	Core_HM	-	-	Y	Y	Y	10K
BST4001	L4_DEGREE	Algorithmic Thinking in Bioinformatics	BD/BP	-	-	Y	N	Y	20K
BST4002	L4_DEGREE	Big Data and Biological Networks	BD/BP	-	-	N	N	N	20K
PRCS4001	L4_DFARFF	Data Visualization Design	RI	-	-	Y	N	Y	20K
PRCS4002	L4_DFARFF	Search Technology	RI	-	-	N	Y	N	20K
PRMS4002	L4_DFARFF	Design Thinking for Data-Driven App Development	HM/PP	-	-	N	Y	N	20K
DSMD4001	L4_DEGREE	Industry 4.0	IIM/DD	-	-	Y	N	Y	20K
DSMD4002	L4_DEGREE	Financial Forensics	IIM/DD	-	-	Y	N	Y	20K
DSMD3002	DEGREE	Market Research	IIM	-	-	N	Y	N	10K
BSCS4004	L4_DEGREE	Introduction to Big Data	BD/BP	-	-	Y	Y	Y	20K
DSOS4003	L4_DEGREE	Privacy & Security in Online Social Media	DD/DP	-	-	N	Y	N	20K
DSMA2001	DEGREE	Mathematical Thinking	SC			Y	N	Y	10K
DSMA3012	DEGREE	Linear Statistical Models	SC			Y	N	Y	10K
BSMA3014	DEGREE	Statistical Computing	SC			N	Y	N	10K
BSCS1021	L4_DEGREE	Advanced Algorithms	BP			Y	Y	N	20K
BSCS3031	DEGREE	Computer Systems Design	BP	BSCS3006		N	Y	N	10K
BSCS4022	L4_DEGREE	Operating Systems	BP		BSCS3031	Y	N	Y	20K
BSCS4002	L4_DEGREE	Special topics in ML (Reinforcement Learning)	BD	BSCS3004		Y	N	Y	20K
BSCS3005	DEGREE	Programming in C	BP			Y	Y	Y	10K
PRCS5002	L5_DFARFF	Introduction to Natural Language Processing (NLP)	RI			N	Y	Y	20K
PRCS5003	L5_DFARFF	Deep Learning for Computer Vision	RI			Y	N	Y	20K
PRCS5001	L5_DFARFF	Large Language Models	RI			N	Y	N	20K
PRMS4005	L4_DFARFF	Game Theory and Strategy	HM/PP			Y	Y	N	20K
PRMS3033	DFARFF	Managerial Economics	HM			Y	N	Y	10K
PRMS3034	DFARFF	Corporate Finance	HM			N	Y	Y	10K

Please note that L5\_Degree courses are complex compared to Degree and L4\_Degree courses. Course fee and credits are the same as L4\_Degree courses.

## 5.3 TODO List

- ☐ Complete section on learning paths
- ☒ Fix broken image paths
- ☐ Review the introduction chapter
- ☐ This is a sample citation to Knuth's work (Knuth 1984).
- ☐ the above dummy has been created so that atleast one reference exists

## 6 Non Academic Rules

[https://docs.google.com/document/u/1/d/1N5ZmPJZUDHznjt6G\\_ZiRS1baG\\_WpOfJM-oFnvWve76Y/pub](https://docs.google.com/document/u/1/d/1N5ZmPJZUDHznjt6G_ZiRS1baG_WpOfJM-oFnvWve76Y/pub)

### 6.1 TODO

- ☐ Review and finalize content for Non Academic Rules section.
- ☐ Confirm if external link is sufficient or if content should be embedded.
- ☐ Check formatting for Quarto compatibility.

# **Part I**

## **Appendices**

## 7 Learning Paths Overview

### 7.1 13. Learning paths available

Here are some suggested learning paths:

1. Foundation course certificate
2. Diploma in Programming
3. Diploma in Data Science
4. Diploma in Programming and Data Science
5. BSc degree in Programming and Data Science

	Term	Foundation	Plan for One Diploma	Plan for Both the Diplomas	BSc Degree	BS Degree	Shortest Path for BSc Degree
<b>Year 1</b>	Term 1	3	1	1	2	2	4
	Term 2	2	2	2	3	3	4
	Term 3	3	2	2	3	3	4
<b>Year 2</b>	Term 1		2	2	3	3	4
	Term 2		1	2	2	2	4
	Term 3		2	2	2	2	4
<b>Year 3</b>	Term 1		1	1	3	3	4
	Term 2		1	2	3	3	3



	Term	Foundation	Plan for One Diploma	Plan for Both the Diplomas	BSc Degree	BS Degree	Shortest Path for BSc Degree
<b>Year 4</b>	Term 3		2	1	2	2	
	Term 1			2	3	3	
	Term 2			2	2	2	
	Term 3			1	3	3	
<b>Total Courses</b>		8	14	20	31		31

## 7.2 13.1 Prerequisite course requirements

### 7.2.1 Foundation courses

Level	Course	Pre-req	Coreq
<b>Foundation</b>	Maths 1	-	-
	Statistics 1	-	-
	English 1	-	-
	CT	-	-
	Maths 2	Maths 1	
	Statistics 2	Statistics 1	Maths 2
	English 2	English 1	
	Intro to Python	CT	

#### Note

- A co-requisite for Statistics-2 is Maths-2. So either Maths-2 has to be done before Statistics-2 or both can be taken together. Statistics-2 cannot be done without having done Maths-2.
- All the 8 Foundation courses should be completed before the candidate can register to any Year 2 Diploma level course.

### 7.2.2 Diploma level courses

Level	Course	Pre-req	Coreq
<b>Diploma in DS</b>	MLF	-	-
	BDM	-	-
	MLT		MLF
	MLP	MLT, MLF	
	BA	BDM	
	TDS		MLF
<b>Diploma in Prog</b>	DBMS	-	-
	PDSA	-	-
	App dev 1	-	DBMS
	Java	-	-
	App dev 2	App dev 1	
	SC	-	-

Without completing all the 8 Foundation courses and the 12 Diploma level courses plus 4 project courses, one cannot proceed to register for Year 3 Degree level courses.

## 7.2.3 Degree Level Courses

Course ID	Course Level	Course Name	Course Type	Co-requisite Code	Prerequisite code	May2024	Sep2024	Jan 2025	CourseFee
BSCS3001	DEGREE	Software Engineering	Core_CP			Y	Y	Y	10K
BSCS3002	DEGREE	Software Testing	Core_BP			Y	Y	Y	10K
BSCS3003	DEGREE	AI Search Methods for Problem Solving	Core_BD			Y	Y	Y	10K
BSCS3004	DEGREE	Deep Learning	Core_BD			Y	Y	Y	10K
BSCN3001	DEGREE	Strategies for Professional Growth	Core_HM	-	-	Y	Y	Y	10K
BST4001	L4_DEGREE	Algorithmic Thinking in Bioinformatics	BD/BP	-	-	Y	N	Y	20K
BST4002	L4_DEGREE	Big Data and Biological Networks	BD/BP	-	-	N	N	N	20K
PRCS4001	L4_DFARFF	Data Visualization Design	BN	-	-	Y	N	Y	20K
PRCS4002	L4_DFARFF	Search Technology	BN	-	-	N	Y	N	20K
PRMS4003	L4_DFARFF	Design Thinking for Data-Driven App Development	HM/PP	-	-	N	Y	N	20K
OSM4001	L4_DEGREE	Industry 4.0	IIM/DD	-	-	Y	N	Y	20K
OSM4002	L4_DEGREE	Financial Forensics	IIM/DD	-	-	Y	N	Y	20K
OSM4003	DEGREE	Market Research	IIM	-	-	N	Y	N	10K
BSCS4004	L4_DEGREE	Introduction to Big Data	BD/BP	-	-	Y	Y	Y	20K
OSCS4003	L4_DEGREE	Privacy & Security in Online Social Media	DD/DP	-	-	N	Y	N	20K
OSMA2001	DEGREE	Mathematical Thinking	SC			Y	N	Y	10K
OSMA2002	DEGREE	Linear Statistical Models	SC			Y	N	Y	10K
BSMA3001	DEGREE	Statistical Computing	SE			N	Y	N	10K
BSCS4021	L4_DEGREE	Advanced Algorithms	BP			Y	Y	N	20K
BSCS3031	DEGREE	Computer Systems Design	BP	BSCS3006		N	Y	N	10K
BSCS4022	L4_DEGREE	Operating Systems	BP		BSCS3031	Y	N	Y	20K
BSCS4002	L4_DEGREE	Special topics in ML (Reinforcement Learning)	BD	BSCS3004		Y	N	Y	20K
BSCS3005	DEGREE	Programming in C	BP			Y	Y	Y	10K
PRCS5002	L5_DFARFF	Introduction to Natural Language Processing (NLP)	BN			N	Y	Y	20K
PRCS5003	L5_DFARFF	Deep Learning for Computer Vision	BN			Y	N	Y	20K
PRCS5001	L5_DFARFF	Large Language Models	BN			N	Y	N	20K
PRMS4005	L4_DFARFF	Game Theory and Strategy	HM/PP			Y	Y	N	20K
PRMS3033	DFARFF	Managerial Economics	HM			Y	N	Y	10K
PRMS3034	DFARFF	Corporate Finance	HM			N	Y	Y	10K

Please note that L5\_Degree courses are complex compared to Degree and L4\_Degree courses. Course fee and credits are the same as L4\_Degree courses.

## 7.3 TODO List

- ☐ Complete section on learning paths
- ☒ Fix broken image paths
- ☐ Review the introduction chapter
- ☐ This is a sample citation to Knuth's work (Knuth 1984).
- ☐ the above dummy has been created so that atleast one reference exists