No.KITSW/IT/Swayam_Nptel MOOCs/2023-24   **Date: 26.06.2023**

<u>**Submitted to Principal:**</u>

Sub: Swayam-Nptel MOOCs for Professional Elective, Open elective Self learning courses and Acceleration programme **for Academic year 2023-24**
Even Semester -Reg.
Ref: Office Note No.463/OP/KITS/2023, dated 22.06.2023
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As per the reference cited above, the following is the information related to Professional Elective, Open elective Self learning courses and Acceleration programme in Information Technology department.

1.**Professional Elective:**

V Semester Professional Elective-I/MOOC-I

Professional Elective-II / MOOCs-II:	URR 18 KITSW Course	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
	U18IT502A: Principles of Programming Languages	---		
	U18IT502B: Neural Networks	---		
	U 18IT502C: Computer Graphics & Multimedia	---		

VI Semester Professional Elective-II/MOOC-II

Professional Elective-II / MOOCs-II:	URR 18 KITSW Course	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
	U18IT603A: Distributed Computing	---		
	U18IT603B: Information Retrieval Systems	---		
	U18IT603C: Advanced Databases	---		

VII Semester Professional Elective III/MOOC-III

Professional Elective-V / MOOCs-V:	URR 18 KITSW Course	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
	U 18IT702A: Advanced Data Mining	---		
	U18IT702B: Cloud Computing	**Cloud Computing**	**12 Weeks**	**https://onlinecourses.nptel.ac.in/ noc23_cs89/preview**
	U18IT702C: Adhoc and Sensor Networks	---		

VII Semester Professional Elective IV/MOOC- IV

Professional Elective-V / MOOCs-V:	URR 18 KITSW Course	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
	U18IT703A: Machine Learning	**Introduction To Machine Learning**	**12 Weeks**	**https://onlinecourses.nptel.ac.in/noc23 _cs98/preview**
	U18IT703B: Service Oriented Architecture	---		
	U18IT703C: Digital Image Processing	---		

VIII Semester Professional Elective V/MOOC-V

Professional Elective-V / MOOCs-V:	URR 18 KITSW Course	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
	U18IT801A: Computer Forensics	---		
	U18IT801B: Big Data Analytics	---		
	U18IT801C: Blockchain Technologies	---		

VIII Semester Professional Elective VI/MOOC- VI

Professional Elective-VI / MOOCs-VI:	URR 18 KITSW Course	SWAYAM-NPTEL Equivalent Course	Duration	Weblink
	U18IT802A: Data Science	**Data Science for Engineers**	**8 Weeks**	**https://onlinecourses.nptel.ac.in/noc23_cs97/preview**
	U18IT802B: Predictive Analytics	**---**		
	U18IT802C: Cyber Security	**Cyber Security and Privacy**	**12 Weeks**	**https://onlinecourses.nptel.ac.in/noc23_cs127/preview**

2.Self Learning Mode:

VII Semester Courses

Sl. No.	Course Category	Course Code	Course Title	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
1	HSMC	U18MH701	Management, Economics & Accountancy	**Financial Accounting** **(finalized by Dean Academic Affairs)**	**8 Weeks**	**https://online courses.nptel .ac.in/noc23_ mg80/previe w**
2	PE	U18IT702	Professional Elective-III/MOOCs-III **U18IT702B: Cloud Computing**	**Cloud Computing**	12 weeks	**https://online courses.nptel .ac.in/noc22_ cs87/preview**
3	PE	U18IT703	Professional Elective-IV/MOOCs-IV **U18IT703A: Machine Learning**	**Introduction to Machine Learning**	**12 Weeks**	**https://online courses.nptel .ac.in/noc22_ cs73/preview**
4	PCC	U18IT704	Internet of Things	Introduction To Internet Of Things	12 Weeks	https://onlin ecourses.npte l.ac.in/noc23 _cs83/previe w
5	PCC	U18IT705	Scripting Languages Laboratory	Not Applicable		
6	PCC	U18IT706	Modeling and Project ManagementLaboratory	Not Applcable		
7	PROJ	U18IT707	Major Project Work *Phase–I*	Not Applicable		
8	MC	U18IT708	Internship Evaluation	Not Applicable		

VII Semester Professional Elective III/MOOC-III

Professional Elective-V / MOOCs-V:	URR 18 KITSW Course	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
	U 18IT702A: Advanced Data Mining	---		
	U18IT702B: Cloud Computing	**Cloud Computing**	**8 Weeks**	**https://onlinecourses.nptel.ac.in/noc23_cs89/preview**
	U18IT702C: Adhoc and Sensor Networks	---		

VII Semester Professional Elective IV/MOOC- IV

Professional Elective-V / MOOCs-V:	URR 18 KITSW Course	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
	U18IT703A: Machine Learning	Introduction To Machine Learning	8 Weeks	https://onlinecourses.nptel.ac.in/noc23_cs87/preview
	U18IT703B: Service Oriented Architecture	---		
	U18IT703C: Digital Image Processing	---		

VIII Semester Courses

Sl. No.	Course Category	Course Code	Course Title	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
1	PE	U18IT801	Professional Elective–V/MOOCs-V	---	---	---
2	PE	U18IT802	Professional Elective–VI/MOOCs-VI **U18IT802A: Data Science**	**Data Science for Engineers**	8 Weeks	https://onlinecourses.nptel.ac.in/noc23_cs97/preview
			U18IT802C: Cyber Security	**Cyber Security and Privacy**	12 Weeks	https://onlinecourses.nptel.ac.in/noc23_cs127/preview
3	OE	U18OE803	Open Elective – IV/MOOCs-VII	(will be finalized by Dean Academic Affairs)		
4	PROJ	U18IT804	Major Project Work *Phase–II*	Not Applicable		

VIII Semester Professional Elective V/MOOC-V

Professional Elective-V / MOOCs-V:	URR 18 KITSW Course	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
	U18IT801A: Computer Forensics	---		
	U18IT801B: Big Data Analytics	---		
	U18IT801C: Blockchain Technologies	---		

VIII Semester Professional Elective-VI/MOOC-VI

	URR 18 KITSW Course	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
Professional Elective-VI / MOOCs-VI:	**U18IT802 A: Data Science**	**Data Science for Engineers**	**8 Weeks**	**https://onlinecourses.nptel.ac.in/noc23_cs97/preview**
	U18IT802 B: Predictive Analytics	---		
	U18IT802 C: Cyber Security	**Cyber Security and Privacy**	**12 Weeks**	**https://onlinecourses.nptel.ac.in/noc23_cs127/preview**

VIII Semester Open Elective -IV/MOOC-VII

	URR 18 KITSW Course	SWAYAM -NPTEL Equivalent Course	Duration	Weblink
Open Elective -IV / MOOCs-VII:	U18OE803A: Operations Research	**(will be finalized by Dean Academic Affairs)**		
	U18OE803B: Management Information Systems	**(will be finalized by Dean Academic Affairs)**		
	U18OE803C: Entrepreneurship Development	**(will be finalized by Dean Academic Affairs)**		
	U18OE803D: Forex and Foreign Trade	**(will be finalized by Dean Academic Affairs)**		

3.Acceleration Programme for B.Tech V and VI semester(VII and VIII semester courses of respective department scheme of valuation

VII Semester Courses

Sl. No.	Course Category	Course Code	Course Title	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
1	HSMC	U18MH701	Management, Economics & Accountancy	**Financial Accounting** (finalized by Dean Academic Affairs)	8 Weeks	**https://online courses.nptel .ac.in/noc23_mg80/preview**
2	PE	U18IT702	Professional Elective-III/MOOCs-III **U18IT702B: Cloud Computing**	**Cloud Computing**	12 weeks	**https://online courses.nptel .ac.in/noc22_cs87/preview**
3	PE	U18IT703	Professional Elective-IV/MOOCs-IV **U18IT703A: Machine Learning**	**Introduction to Machine Learning**	**12 Weeks**	**https://online courses.nptel .ac.in/noc22_cs73/preview**
4	PCC	U18IT704	Internet of Things	Introduction To Internet Of Things	12 Weeks	https://online courses.nptel.ac.in/noc23_cs83/preview
5	PCC	U18IT705	Scripting Languages Laboratory	Not Applicable		
6	PCC	U18IT706	Modeling and Project ManagementLaboratory	Not Applcable		
7	PROJ	U18IT707	Major Project Work *Phase–I*	Not Applicable		
8	MC	U18IT708	Internship Evaluation	Not Applicable		

VII Semester Professional Elective III/MOOC-III

Professional Elective-V / MOOCs-V:	URR 18 KITSW Course	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
	U 18IT702A: Advanced Data Mining	---		
	U18IT702B: Cloud Computing	**Cloud Computing**	**8 Weeks**	**https://onlinecourses.nptel.ac.in/noc23_cs89/preview**
	U18IT702C: Adhoc and Sensor Networks	---		

VII Semester Professional Elective IV/MOOC- IV

Professional Elective-V / MOOCs-V:	URR 18 KITSW Course	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
	U18IT703A: Machine Learning	Introduction To Machine Learning	8 Weeks	https://onlinecourses.nptel.ac.in/noc23_cs87/preview
	U18IT703B: Service Oriented Architecture	---		
	U18IT703C: Digital Image Processing	---		

VIII Semester Courses

Sl. No.	Course Category	Course Code	Course Title	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
1	PE	U18IT801	Professional Elective–V/MOOCs-V	---	---	---
2	PE	U18IT802	Professional Elective–VI/MOOCs-VI **U18IT802A: Data Science**	**Data Science for Engineers**	**8 Weeks**	**https://onlinecourses.nptel.ac.in/noc23_cs97/preview**
			U18IT802C: Cyber Security	**Cyber Security and Privacy**	12 Weeks	**https://onlinecourses.nptel.ac.in/noc23_cs127/preview**
3	OE	U18OE803	Open Elective – IV/MOOCs-VII	**(will be finalized by Dean Academic Affairs)**		
4	PROJ	U18IT804	Major Project Work *Phase–II*	Not Applicable		

VIII Semester Professional Elective V/MOOC-V

Professional Elective-V / MOOCs-V:	URR 18 KITSW Course	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
	U18IT801A: Computer Forensics	---		
	U18IT801B: Big Data Analytics	---		
	U18IT801C: Blockchain Technologies	---		

VIII Semester Professional Elective-VI/MOOC-VI

	URR 18 KITSW Course	SWAYAM - NPTEL Equivalent Course	Duration	Weblink
Professional Elective-VI / MOOCs-VI:	**U18IT802A: Data Science**	**Data Science for Engineers**	**8 Weeks**	**https://onlinecourses.nptel.ac.in/noc23_cs97/preview**
	U18IT802B: Predictive Analytics	---		
	U18IT802C: Cyber Security	**Cyber Security and Privacy**	**12 Weeks**	**https://onlinecourses.nptel.ac.in/noc23_cs127/preview**

VIII Semester Open Elective -IV/MOOC-VII

	URR 18 KITSW Course	SWAYAM -NPTEL Equivalent Course	Duration	Weblink
Open Elective -IV / MOOCs-VII:	U18OE803A: Operations Research	**(will be finalized by Dean Academic Affairs)**		
	U18OE803B: Management Information Systems	**(will be finalized by Dean Academic Affairs)**		
	U18OE803C: Entrepreneurship Development	**(will be finalized by Dean Academic Affairs)**		
	U18OE803D: Forex and Foreign Trade	**(will be finalized by Dean Academic Affairs)**		

Swathi.

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