

IIS (deemed to be UNIVERSITY)
SFS, GURUKUL MARG, MANSAROVAR, JAIPUR



**Integration of Spoken Tutorial,
IIT Bombay with
IISU courses: A Report**

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About Spoken Tutorial

The Spoken Tutorial (ST) project is being developed at IIT Bombay. It is the initiative of the "Talk to a Teacher" project of the National Mission on Education through Information and Communication Technology, launched by MHRD, Govt of India. It promotes IT literacy for education and improves the employment potential of learners in India, using FOSS (free and open source software). This project is about teaching and learning a particular FOSS (Free and Open Source Software) like Linux, Scilab, LaTeX, PHP & MySQL, Java, C/C++, LibreOffice etc. via an easy Video tool, through Distance Learning Mode. The spoken part of ST is dubbed into all Indian languages and one can use ST to learn a topic, called a tutorial.

Benefits for the students/faculty

- E-Tutor can be used to assist in practical labs
- Online tests and certificates by IIT Bombay without any extra fees. These certificates give an edge to IISU students during placements by increasing their employability potential
- Teachers can also be trained on various open source software.

What ST Courses provides to the learners?

Spoken tutorial offers a number of courses. Each course contains the following:

- a number of **audio-videos** of approx. 10-minute duration each.
- **assignment**
- programming **code files** (if any)
- slides of audio-video in **pdf format**
- detailed **instruction sheet** for each course that contains:
 - instructions for accessing the tutorial both in online and offline mode
 - procedure and instructions to practice
 - instructions for accessing code files and assignments
- **installation sheet** that explains the procedure of the installation of the required software on both Windows and Linux Operating System
- **Forum help** is also available. Here, learners can post questions on a particular portion of a specific tutorial, at: <https://forums.spoken-tutorial.org/>

Assessment Strategy of Spoken Tutorial

- MCQ-based test and duration of the exam: 45 min.
- Passing percentage: above 40%
- Remedial test in case student does not clear the exam after 15 days.
- Certificate on clearing the exam from Spoken Tutorial, IIT Bombay.

Proposed Spoken Tutorial Courses for integration with IISU syllabus (Odd Semester, 2020)

Proposed ST course	Total Duration (hrs)	Title of the IISU paper that can be mapped with the Course	Paper Type	Mapping Percentage	Assessment Type	Credit Transfer (Total Credits IISU)	ST Contact Hours (Total Hrs Alloted)
Department of CS & IT							
Introduction to Computers	1.10 hrs	CBCA102: ICT Lab	Practical	30%	CA	1(3)	15 (90)
		GBCA102 B: Office Automation	Practical	30%	CA	1	15
HTML	2.45 hrs	CBCA303: Web Application Development-I	Theory	40%	CA	1(3)	18 (45)
		CAI301: Internet and Website designing	Theory	50%	CA	1(3)	18(45)
		WDT132: Web designing Lab	Practical	40%	CA	2(4)	30 (60)
		BMA316: Web designing	Practical	50%	CA	1(4)	18
Java Business Application	1.30 hrs	DBCA503B : Advanced JAVA Programming Lab	Practical	80%	SEE	4(6)	53(180)
PHP and MySQL	7 hrs	WDT332B: Scripting Languages Lab II	Theory	80%	SEE	3(4)	60(60)
Drupal	5.30 hrs	WDT333: Project/Internship	Project	80%	SEE	3(4)	57(60)
Synfig Studio	1.53 hrs	WDT233: Animation in Web	Practical	40%	SEE	1(4)	18 (60)
Inkscape	2.8 hrs	CGD233: Coreldraw	Practical	80%	SEE	2(4)	42(60)

Proposed ST course	Total Duration (hrs)	Title of the IISU paper that can be mapped with the Course	Paper Type	Mapping Percentage	Assessment Type	Credit Transfer (Total Credits)	Contact Hours (Total Hrs)
Department of Chemistry							
Avogadro	1.35 hrs	CHY326: Research projects	Practical	100%	CA	1(2)	24 (30)
Department of Statistics							
LibreOffice Suite Calc	2.07 hrs	STT-103: Practical	Practical	50%	CA	1 (2)	30(60)
Department of Physics							
C++	3.48 hrs	PHY 114: Computer Programming	Theory	30%	CA	1(3)	18 (45)
Department of Accounting & Taxation							
Front Accounting	2 hrs	ATG 118 Project Viva-Voce (Practical)	Theory	50%	CA	1(2)	15 (30)
Department of Management Studies							
Introduction to Computers	1.10 hrs	ADMK 101: Fundamental of Computers	Practical	30%	CA	1(2)	15 (60)

IISU Syllabi and Mapping of Spoken Tutorial

Department of CS & IT

Introduction to Computers/CBCA102: ICT Lab and GBCA102 B: Office Automation (Mapping 30%)

		Additional hours allotted				Continuous Assessment	Semester-end Examination		
Week	Duration of Video (s) (min)	Mentoring class (hrs)/week	Home Assignment (hrs)	Total Hrs/Week	Additional classes allotted for practice and rest of the syllabi	ST-30 marks	IISU-70 marks (from rest of the course)		
							Practical	File + Report Submission	Viva
Week 1	12	1	1.5	3 hrs	3 hrs/week	<ul style="list-style-type: none"> MCQ on the date given by the IISU and duration of the exam: 45 min; Remedial in case student does not clear the exam after 15 days; Certificate on clearing the exam from Spoken Tutorial, IIT Bombay 	40 marks	20 marks	10 marks
Week 2	8	1	1.5	2.45 hrs					
Week 3	13	1	1.5	3 hrs					
Week 4	16	1	1.5	3 hrs					
Week 5	17	1	1.5	3 hrs					
Total Duration Hrs. (Video)	1.10		Total Hrs for the Completion of Course	15 hrs (approx.)					

HTML/CBCA303: Web Application Development-I (Mapping 40%)

		Additional hours allotted				Continuous Assessment		Semester-end Examination
Week	Duration of Video(s) (min)	Mentoring class (hrs/week)	Home Assignment (hrs/week)	Total Hrs/Week	Additional classes allotted for rest of the syllabi	ST-25 marks	IISU -5 marks	IISU-70 marks
							Report Submission	70 marks
Week 1	5+7+12=24	1	1.5	3 hrs	1 hr/week	• MCQ on the date given by the IISU and duration of the exam: 45 min; • Remedial in case student does not clear the exam after 15 days; • Certificate on clearing the exam from Spoken Tutorial, IIT Bombay	5 marks	
Week 2	14+11+8=33	1	1.5	3 hrs				
Week 3	10+11= 21	1	1.5	3 hrs				
Week 4	10+14= 24	1	1.5	3 hrs				
Week 5	13+9= 22	1	1.5	3 hrs				
Week 6	12+11= 23	1	1.5	3 hrs				
Total Duration Hrs. (Video)	2.45		Total Hrs for the Completion of Course	18 hrs (approx.)				

During Week 1 to 6: Unit I and II will be covered through ST and additional classes allotted for Unit V completion

HTML/CAI301: Internet and Web Design Principles (Mapping 50%)

		Additional hours allotted				Continuous Assessment		Semester-end Examination
Week	Duration of Video(s) (min)	Mentoring class (hrs/week)	Home Assignment (hrs/week)	Total Hrs/Week	Additional classes allotted for rest of the syllabi	ST-25 marks*	IISU -5 marks	IISU-70 marks
							Report Submission	70 marks
Week 1	5+7+12=24	1	1.5	3	1 hr/week	• MCQ on the date given by the IISU and duration of the exam: 45 min; • Remedial in case student does not clear the exam after 15 days; • Certificate on clearing the exam from Spoken Tutorial, IIT Bombay	5 marks	
Week 2	14+11+8=33	1	1.5	3				
Week 3	10+11= 21	1	1.5	3				
Week 4	10+14= 24	1	1.5	3				
Week 5	13+9= 22	1	1.5	3				
Week 6	12+11= 23	1	1.5	3				
Total Duration Hrs. (Video)	2.45		Total Hrs for the Completion of Course	18 hrs (approx.)				

During Week 1 to 6: Unit II and III will be covered through ST and additional classes allotted for Unit I completion

Note: HTML is mapped with both WDT (certificate course) and elective subject (CAI III semester). If any student is common and has already earned a ST certificate in WDT then for the evaluation purposes, the students will have to create a website as guided by the subject teacher. The evaluation in such cases will be as follows:

- Website + demo: 25 marks
- Website report: 5 marks

HTML/BMA316: Web designing (Mapping 50%)

		Additional hours allotted				Continuous Assessment	Semester-end Examination		
Week	Duration of Video(s) (min)	Mentoring class (hrs/week)	Home Assignment (hrs/week)	Total Hrs/Week	Additional classes allotted for rest of the syllabi	ST-30 marks	IISU-70 marks		
							Practical	Report Submission + File	Viva
Week 1	5+7+12=24	1	1.5	3	3 hr/week	<ul style="list-style-type: none"> • MCQ on the date given by the IISU and duration of the exam: 45 min; • Remedial in case student does not clear the exam after 15 days; • Certificate on clearing the exam from Spoken Tutorial, IIT Bombay 	40 marks	20 marks	10 marks
Week 2	14+11+8=33	1	1.5	3					
Week 3	10+11= 21	1	1.5	3					
Week 4	10+14= 24	1	1.5	3					
Week 5	13+9= 22	1	1.5	3					
Week 6	12+11= 23	1	1.5	3					
Total Duration Hrs. (Video)	2.45		Total Hrs for the Completion of Course	18 hrs (approx.)					

In SEE practical work can be given from rest of the syllabus.

HTML/WDT132: Web Designing Lab (Mapping 40%)

		Additional hours allotted				Continuous Assessment	Semester-end Examination		
Week	Duration of Video(s) (min)	Mentoring class (hrs/week)	Home Assignment (hrs/week)	Total Hrs/Week	Additional classes allotted for rest of the syllabi	ST-30 marks	IISU-70 marks		
							Practical	File	Viva
Week 1	5+7=12	1	1.5	3 hrs	2 classes/week will be allotted in even semester for rest of the syllabi	<ul style="list-style-type: none"> • MCQ on the date given by the IISU and duration of the exam: 45 min; • Remedial in case student does not clear the exam after 15 days; • Certificate on clearing the exam from Spoken Tutorial, IIT Bombay 	50 marks	10 marks	10 marks
Week 2	12+14= 26	1	1.5	3 hrs					
Week 3	11+8= 19	1	1.5	3 hrs					
Week 4	10+11 = 21	1	1.5	3 hrs					
Week 5	10	1	1.5	3 hrs					
Week 6	14	1	1.5	3 hrs					
Week 7	13	1	1.5	3 hrs					
Week 8	9	1	1.5	3 hrs					
Week 9	12	1	1.5	3 hrs					
Week 10	11	1	1.5	3 hrs					
Total Duration Hrs. (Video)	2.45		Total Hrs for the Completion of Course	30 hrs (approx.)					

Java Business Application / DBCA503B: Advanced JAVA PROGRAMMING LAB (Mapping 80%)

		Additional hours allotted				Continuous Assessment				Semester-end Examination	
Week	Duration of Video(s) (min)	Mentoring class (hrs/week)	Home Assignment (hrs/week)	Total Hrs/Week	Additional classes allotted for rest of the syllabi and lab practice	IISU-30 marks				ST-50 marks	IISU-20 marks
		(hrs/2 weeks)	(hrs/2 weeks)	(hrs/2 weeks)		CA Test	Assignment	Attendance	Viva		Report Submission + File
Week 1-2	6	4	3	7.5	4 classes/ week	15 marks	5 Marks	5 marks	5 marks	<ul style="list-style-type: none"> • MCQ on the date given by the IISU and duration of the exam: 45 min; • Remedial in case student does not clear the exam after 15 days; • Certificate on clearing the exam from Spoken Tutorial, IIT Bombay 	20 marks
Week 3-4	8	4	3	7.5							
Week 5-6	12	4	3	7.5							
Week 7-8	11	4	3	7.5							
Week 9-10	16	4	3	7.5							
Week 11-12	10	4	3	7.5							
Week 12-13	14	4	3	7.5							
Total Duration Hrs. (Video)	1.28		Total Hrs for the Completion of Course	53 hrs (approx.)							

PHP & MySQL/ WDT332B: Scripting Languages Lab II (Mapping 80%)

		Additional hours allotted			Continuous Assessment				Semester-end Examination	
Week	Duration of Video(s) (min)	Mentoring class (hrs/week)	Home Assignment (hrs/week)	Total Hrs/Week	IISU-30 marks				ST-50 marks	IISU-20 marks
					CA Test	File	Attendance	Viva	Practical	Report Submission + File
Week 1	10+11=21	1	1	2.5	15 marks	5 Marks	5 marks	5 marks	<ul style="list-style-type: none"> • MCQ on the date given by the IISU and duration of the exam: 45 min; • Remedial in case student does not clear the exam after 15 days; • Certificate on clearing the exam from Spoken Tutorial, IIT Bombay 	20 marks
Week 2	3+5+5=13	1	1	2.25						
Week 3	6+4+4=14	1	1	2.25						
Week 4	7+9+6=22	1	1	2.5						
Week 5	6+6+3=15	1	1	2.5						
Week 6	5+7+8=20	1	1	2.5						
Week 7	6+5+5=16	1	1	2.5						
Week 8	6+7=13	1	1	2.5						
Week 9	9+5=14	1	1	2.5						
Week 10	10+8=18	1	1	2.5						
Week 11	9+8=17	1	1	2.5						
Week 12	8+9=17	1	1	2.5						
Week 13	10	1	1	2.25						
Week 14	7+8=15	1	1	2.5						
Week 15	9	1	1	2.25						
Week 16	9+10=19	1	1	2.5						
Week 17	9+7=16	1	1	2.5						
Week 18	4+7=11	1	1	2.25						
Week 19	10+6=16	1	1	2.5						

Week 20	7+7+8=22	1	1	2.5						
Week 21	10+10=20	1	1	2.5						
Week 22	9+8+9=26	1	1	2.5						
Week 23	5+9=14	1	1	2.5						
Week 24	10+11=21	1	1	2.5						
Week 25	10+6=16	1	1	2.5						
Week 26	8	1	1	2.25						
Total Duration Hrs. (Video)	7.05		Total Hrs for the Completion of Course	60 hrs (approx.)						

Drupal/ WDT333: Project/Internship (Mapping 80%)

		Additional hours allotted			Continuous Assessment	Semester-end Examination		
Week	Duration of Video(s) (min)	Mentoring class (hrs/week)	Home Assignment (hrs/week)	Total Hrs/Week	ST-30 marks	IISU-70 marks		
					Test	Project demo	Project Report	Viva-voce
Week 1	11	1	1	2.25	<ul style="list-style-type: none"> • MCQ on the date given by the IISU and duration of the exam: 45 min; • Remedial in case student does not clear the exam after 15 days; • Certificate on clearing the exam from Spoken Tutorial, IIT Bombay 	30 marks	15 marks	15 marks
Week 2	11	1	1	2.25				
Week 3	14	1	1	2.25				
Week 4	10	1	1	2.25				
Week 5	11	1	1	2.25				
Week 6	13	1	1	2.25				
Week 7	13	1	1	2.25				
Week 8	12+8=20	1	1	2.3				
Week 9	11+8=19	1	1	2.3				
Week 10	16	1	1	2.25				
Week 11	10	1	1	2.25				
Week 12	14	1	1	2.25				
Week 13	8+13=21	1	1	2.3				
Week 14	9	1	1	2.25				
Week 15	10	1	1	2.25				
Week 16	13	1	1	2.25				
Week 17	12	1	1	2.25				
Week 18	7	1	1	2.25				
Week 19	10	1	1	2.25				
Week 20	18	1	1	2.25				
Week 21	13	1	1	2.25				

Week 22	9	1	1	2.25
Week 23	14	1	1	2.25
Week 24	10	1	1	2.25
Week 25	10	1	1	2.25
Total Duration Hrs. (Video)	5.30		Total Hrs for the Completion of Course	57 hrs (approx.)

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Synfig Studio/ WDT233: Animation in Web (Mapping 40%)

		Additional hours allotted				Continuous Assessment	Semester-end Examination		
Week	Duration of Video(s) (min)	Mentoring class (hrs/week)	Home Assignment (hrs/week)	Total Hrs/ Week	Additional classes allotted for rest of the syllabi and lab practice	ST-30 marks	IISU-70 marks		
						Test	Practical	Viva	Report Submission + File
Week 1	11.3	1	1	2.15	Additional topics of theory will be covered in practical classes	<ul style="list-style-type: none"> • MCQ on the date given by the IISU and duration of the exam: 45 min; • Remedial in case student does not clear the exam after 15 days; • Certificate on clearing the exam from Spoken Tutorial, IIT Bombay 	40 marks	10 marks	20 marks
Week 2	10.30	1	1	2.15					
Week 3	10.50	1	1	2.15					
Week 4	6.11 + 8 = 14.11	1	1	2.15					
Week 5	4.47 + 14.6 = 18.53	1	1	2.5					
Week 6	8.46	1	1	2.15					
Week 7	7.16 + 7.55 = 15.11	1	1	2.15					
Week 8	13.26	1	1	2.15					
Total Duration Hrs. (Video)	1.53		Total Hrs for the Completion of Course	18 hrs (approx.)					

		Additional hours allotted				Continuous Assessment				Semester-end Examination	
Week	Duration of Video(s) (min)	Mentoring class (hrs/week)	Home Assignment (hrs/week)	Total Hrs/Week	Additional classes allotted for rest of the syllabi and lab practice	IISU-30 marks				ST-50 marks	IISU-20 marks
						CA Test	File	Attendance	Viva	Practical	File + Report Submission
Week 1	5.32	1	1	2	Additional topics of will be covered in practical classes	15 marks	5 Marks	5 marks	5 marks	<ul style="list-style-type: none"> • MCQ on the date given by the IISU and duration of the exam: 45 min; • Remedial in case student does not clear the exam after 15 days; • Certificate on clearing the exam from Spoken Tutorial, IIT Bombay 	20 marks
Week 2	10.54	1	1	2.15							
Week 3	16.13	1	1	2.15							
Week 4	11.32	1	1	2.15							
Week 5	12.47	1	1	2.15							
Week 6	9.14	1	1	2.15							
Week 7	11.08	1	1	2.15							
Week 8	6.41	1	1	2.15							
Week 9	11.31	1	1	2.15							
Week 10	7.54	1	1	2.15							

Week 11	10.2	1	1	2.15						
Week 12	10.03	1	1	2.15						
Week 13	6.46	1	1	2.15						
Week 14	6.11	1	1	2.15						
Week 15	5.49	1	1	2						
Week 16	7.15	1	1	2						
Week 17	7.03	1	1	2						
Week 18	9.03	1	1	2.15						
Week 19	5.21	1	1	2						
Total Duration Hrs. (Video)	2.8 hours		Total Hrs for the Completion of Course	42 hrs (approx.)						

Department of Chemistry

Avogadro/CHY326 Research Projects (Mapping 100%)

		Additional hours allotted				Continuous Assessment		Semester-end Examination			
Week	Duration of Video (s) (min)	Mentoring class (hrs)/week	Home Assignment (hrs)	Total Hrs/ Week	Additional classes allotted for rest of the syllabi	ST-25 marks	IISU-5 marks	IISU Dissertation Project -70 marks			
						Test	Report Submission	Survey of literature	References	Synopsis	Presentation and Viva
Week 1	13.14	1	1.5	3	3 hrs/week	<ul style="list-style-type: none"> MCQ on the date given by the IISU and duration of the exam: 45 min; Remedial in case student does not clear the exam after 15 days; Certificate on clearing the exam from Spoken Tutorial, IIT Bombay 	5 marks	20 marks	15 marks	15 marks	20 marks
Week 2	11.42	1	1.5	3							
Week 3	10.59	1	1.5	3							
Week 4	8.38	1	1.5	3							
Week 5	11.23	1	1.5	3							
Week 6	13.46	1	1.5	3							
Week 7	12.56	1	1.5	3							
Week 8	10.53	1	1.5	3							
Total Duration Hrs. (Video)	1.35hrs		Total Hrs for the Completion of Course	24 hrs (approx.)							

Department of Statistics

Libre Office Suite Calc/ STT-103: Practical (Mapping 50%)

		Additional hours allotted				Continuous Assessment	Semester-end Examination		
Week	Duration of Video (s) (min)	Mentoring class (hrs)/week	Practicing working hours (hrs)	Total Hrs/ Week	Additional classes allotted for rest of the syllabi	ST-30 marks	IISU-70 marks (from rest of the course)		
						Test	Practical	File	Viva
Week 1	19.18	1	2	3	2 classes/week will be allotted in the semester for rest of the syllabi	<ul style="list-style-type: none"> • Exam date: Announced by IISU • Exam Taken: ST • Exam pattern: MCQ • Duration: 45 min • Remedial in case student does not clear the exam after 15 days • Result: Percentage mapping of ST • Marks awarded: Out of 30 based on percentage received from ST exam 	40 marks	20 marks	10 marks
Week 2	14.16	1	2	3					
Week 3	12.22	1	2	3					
Week 4	17.45	1	2	3					
Week 5	9.18	1	2	3					
Week 6	11.34	1	2	3					
Week 7	9.41	1	2	3					
Week 8	12.5	1	2	3					
Week 9	12.45	1	2	3					
Week 10	7.25	1	2	3					
Total Duration Hrs. (Video)	2.07		Total Hrs for the Completion of Course	30 hrs (approx.)					

Department of Physics

C++ /PHY114: Computer Programming (Mapping 30%)

		Additional hours allotted				Continuous Assessment		Semester-end Examination
Week	Duration of Video(s) (min)	Mentoring class (hrs/week)	Home Assignment (hrs/week)	Total Hrs/Week	Additional classes allotted for rest of the syllabi	ST-25 marks	IISU -5 marks	IISU-70 marks
							Report Submission	70 marks
Week 1	11+14+10=35	1	1.4	3 hrs	1 hr/week	• MCQ on the date given by the IISU and duration of the exam: 45 min; • Remedial in case student does not clear the exam after 15 days; • Certificate on clearing the exam from Spoken Tutorial, IIT Bombay	5 marks	
Week 2	9+13+10+11=43	1	1.2	3 hrs				
Week 3	19+10+8=37	1	1.4	3 hrs				
Week 4	11+9+8=28	1	1.5	3 hrs				
Week 5	12+8=20	1	1.6	3 hrs				
Week 6	7+6+8=21	1	1.6	3 hrs				
Total Duration Hrs. (Video)	3.06		Total Hrs for the Completion of Course	18 hrs (approx.)				

Department of Accounting & Taxation

Front Office / ATG 118: Practical (Mapping 50%)

					Additional hours allotted	Continuous Assessment			Semester-end Examination	
Week	Duration of Video(s) (min)	Mentoring class (min/ week)	Home Assignment (hrs/ week)	Total Hrs/ Week	Additional classes allotted for rest of the syllabi	IISU-30 marks			ST-50 marks	IISU-20 marks
						Viva	Assignment	Report submission		Viva
Week 1	10	45 min	1	2	Additional topics will be covered in remaining 12 classes	5 marks	10 marks	15 marks	<ul style="list-style-type: none"> • MCQ on the date given by the IISU and duration of the exam: 45 min; • Remedial in case student does not clear the exam after 15 days; • Certificate on clearing the exam from Spoken Tutorial, IIT Bombay 	20 marks
Week 2	15	45 min	1	2						
Week 3	12	45 min	1	2						
Week 4	14	45 min	1	2						
Week 5	9+8=17 min	45 min	1	2						
Week 6	9+10=19 min	45 min	1	2						
Week 7	10	45 min	1	2						
Week 8	8	45 min	1	2						
Week 9	11	45 min	1	2						
Total Duration Hrs. (Video)	2 Hrs		Total Hrs for the Completion of ST Course	18 hrs (approx.)						

Department of Management Studies

Introduction to Computers / ADMK 101: Fundamental of Computers (Mapping 50%)

		Additional hours allotted				Continuous Assessment	Semester-end Examination		
Week	Duration of Video (s) (min)	Mentoring class (hrs)/week	Home Assignment (hrs)	Total Hrs/Week	Additional classes allotted for practice and rest of the syllabi	ST-30 marks	IISU-70 marks (from rest of the course)		
							Practical	File + Report Submission	Viva
Week 1	12	1	1.5	3 hrs	3 hrs/week	<ul style="list-style-type: none"> MCQ on the date given by the IISU and duration of the exam: 45 min; Remedial in case student does not clear the exam after 15 days; Certificate on clearing the exam from Spoken Tutorial, IIT Bombay 	40 marks	20 marks	10 marks
Week 2	8	1	1.5	2.45 hrs					
Week 3	13	1	1.5	3 hrs					
Week 4	16	1	1.5	3 hrs					
Week 5	17	1	1.5	3 hrs					
Total Duration Hrs. (Video)	1.10		Total Hrs for the Completion of Course	15 hrs (approx.)					

