

Sree Narayana College, Kollam

Department of Mathematics

Certificate Course Syllabus 2018-2019

Title of the Course: LATEX - A Mathematical Software

Contact Hours: 30 hr [15(T) + 15(P)]

#### Module 1:

LATEX for preparing a project report in Mathematics (36 Hours) Graphical User Interface (GUI)/ Editor like Kile or TeXstudio should be used for providing training to the students. The main topics in this module are following: Typesetting a simple article and compiling it; How spaces are treated in the document; Document layout : various options to be included in the documentclass command, page styles, splitting files into smaller files, breaking line and page, using boxes (like, mbox) to keep text unbroken across lines, dividing document in to parts like frontmatter, mainmatter, backmatter, chapters, sections, etc, cross referencing with and without page number, adding footnotes; Emphasizing words with  $\backslash\text{emph}$ ,  $\backslash\text{texttt}$ ,  $\backslash\text{textsl}$ ,  $\backslash\text{textit}$ ,  $\backslash\text{underline}$  etc. Basic environments like enumerate, itemize, description, flushleft, flushright, center, quote, quotation Controlling enumeration via the enumerate package.

#### Module 2

Tables : preparing a table and floating it, the longtable environment; Typesetting mathematics : basic symbols, equations, operators, the equation environment and reference to it, the displaymath environment, exponents, arrows, basic functions, limits, fractions, spacing in the mathematics environments, matrices, aligning various objects, multi-equation environments, suppressing numbering for one or more equations, handling long equations, phantoms, using normal text in math mode, controlling font size, typesetting theorems, definitions, lemmas, etc, making text bold in math mode, inserting symbols and environments (array, pmatrix etc) using the support of GUIs; Figures : Including JPG, PNG graphics with graphicx package, controlling width, height etc, floating figures, adding captions, the wrapfig package.

#### Module 3

Adding references/bibliography and citing them, using the package hyperref to add and control hypertext links, creating presentations with pdf screen, creating new commands; Fonts : changing font size, various fonts, math fonts, Spacing : changing line spacing, controlling horizontal, vertical spacing, controlling the margins using the geometry package, fullpage package Preparing a dummy project with titlepage, acknowledgement, certificates, table of contents (using  $\backslash\text{tableofcontents}$ ), list of tables, table of figures, chapters, sections, bibliography (using the bibliography environment). This dummy project

*Thiruvalluvar*  
Principal  
Sree Narayana College  
Kollam



should contain atleast one example from the each of the topic in the syllabus, and should be submitted for internal evaluation before the end semester practical examination.

#### Reference.

1. Tobias Oetiker, Hubert Partl, Irene Hyna and Elisabeth Schlegl. The (Not So) Short Introduction to L A T E X 2<sub>ε</sub>, Samurai Media Limited (or available online at <http://mirrors.ctan.org/info/lshort/english/lshort.pdf>)
2. Leslie Lamport. L A T E X: A Document Preparation System, Addison-Wesley, Reading, Massachusetts, second edition, 1994
3. L A T E X Tutorials—A Primer, Indian TeX Users Group, available online at <https://www.tug.org/twg/mactex/tutorials/ltxprimer-1.0.pdf>
4. H. J. Greenberg. A Simplified introduction to L A T E X, available online at <https://www.ctan.org/tex-archive/info/simplified-latex/>

## Sree Narayana College, Kollam

Department of Mathematics

2018-2019

Certificate Course Syllabus

Title of the Course : LATEX :- A Mathematical Software

### Relevance of the Course

LaTeX is widely used in academia for the communication and publication of scientific documents in many fields, including mathematics, statistics, computer science, engineering, physics, economics, linguistics, quantitative psychology, philosophy, and political science. It also has a prominent role in the preparation and publication of books and articles that contain complex multilingual materials, such as Sanskrit and Greek. LaTeX uses the TeX typesetting program for formatting its output, and is itself written in the TeX macro language.

LaTeX can be used as a standalone document preparation system, or as an intermediate format. In the latter role, for example, it is sometimes used as part of a pipeline for translating DocBook and other XML-based formats to PDF. The typesetting system offers programmable desktop publishing features and extensive facilities for automating most aspects of typesetting and desktop publishing, including numbering and cross-referencing of tables and figures, chapter and section headings, the inclusion of graphics, page layout, indexing and bibliographies. Like TeX, LaTeX started as a writing tool for mathematicians and computer scientists, but even from early in its development, it has also been taken up by scholars who needed to write documents that include complex math expressions or non-Latin scripts, such as Arabic, Devanagari and Chinese.

LaTeX is intended to provide a high-level, descriptive markup language that accesses the power of TeX in an easier way for writers. In essence, TeX handles the layout side, while LaTeX handles the content side for document processing. LaTeX comprises a collection of TeX macros and a program to process LaTeX documents, and because the plain TeX formatting commands are elementary, it provides authors with ready-made commands for formatting and layout requirements such as chapter headings, footnotes, cross-references and bibliographies.

### Objective of the course

- LATEX is a high-quality typesetting system it includes features designed for the production of technical and scientific documentation
- LATEX is the de facto standard for the communication and publication of scientific documents.
- In higher education, project and thesis are mainly prepared in LATEX

### Outcome of the course

- LaTeX is designed by mathematicians for producing beautifully typeset mathematics
- LaTeX has the author specify various elements of the document, such as title, authors, chapter and section headings, environments for theorems and proofs, appendices, and the bibliography
- LaTeX elegantly handles numbering and internal referencing within a document.
- One can easily create macros for use within a particular document. Moreover, LaTeX has a coherent package system that makes it relatively easy for users to write extension packages to provide additional features.
- Most LaTeX programs have a very user-friendly interface. Moreover, since LaTeX has existed for so long, there is a great deal of good documentation

**Department of Mathematics SN College Kollam****Certificate course :-LATEX - A Mathematical Software  
2018-2019****BOARD OF STUDIES**

Name	Designation	Position held
Vivek P.V.	Assistant Professor, S.N. College, Kollam	Chairman
Kuleena Das	Assistant Professor, S.N. College, Kollam	Member
Dr.Ambili B	Associate Professor, S.N. College, Kollam	Member
Aswathy S	Assistant Professor, S.N. College, Kollam	Member
Adersh VK	Assistant Professor, T.K.M. College, Kollam	Member
Dr. Aswathy MR	Assistant Professor, T.K.M. College, Kollam	Member

# **SREE NARAYANA COLLEGE, KOLLAM**

(Affiliated to the university of kerala, Reaccredited by NAAC with 'A' grade)



**College - level certificate course  
on**

**"LaTeX - A Mathematical Software"**

**Department of Mathematics (2018 - 19)**

**we are the sharpeners of great minds and honourable values.**

**Contact : Vivek P V**

**Contact no : 9496112930**

## NOTICE

A meeting of the certificate course Board of studies members will be held on 19/10/2018 at 1.30pm in the computer lab, Department of mathematics. All the members are requested to attend the meeting without fail.

### Agenda:

1. Commencement of certificate course

Copy to all members

S.N .College, Kollam

19/10/2018



Chairman

## NOTICE

A meeting of the certificate course Board of studies members will be held on 04 /06/2019 at 1.30pm in the computer lab, Department of mathematics. All the members are requested to attend the meeting without fail.

Agenda:

1. Publishing results of certificate course

Copy to all members

S.N .College,Kollam

04/06/2019



Chairman



**List of Students Applied for Certificate Course LATEX :-  
A Mathematical Software (2018-2019)**

Sl No	Name	Candidate Code	Department
1	16132011	Durgadas U S	Mathematics
2	16132012	GouriKrishna	Mathematics
3	16132013	Hareeshma G S	Mathematics
4	16132014	Indhu Suresh	Mathematics
5	16132021	Supriya PS	Mathematics
6	16132022	Swathy Biju	Mathematics
7	16132023	Varsha P	Mathematics
8	16132024	Vipin Chandran R	Mathematics
9	16132025	Abhijith K	Mathematics
10	16132026	Aiswarya Surendran	Mathematics
11	16132027	Ajaylal A	Mathematics
12	16132028	Anandhu A L	Mathematics
13	16132029	Apsara Sugunan	Mathematics
14	16132040	Muhammed Noufal	Mathematics
15	16132041	Nidheesh Babu C	Mathematics
16	16132042	Parvathy Jayan S	Mathematics
17	16132043	Parvathy B	Mathematics
18	16132044	Renjitha Remanan	Mathematics
19	16132045	Sajana S	Mathematics
20	16132046	Sajitha S	Mathematics
21	16132047	Sarath Kumar S	Mathematics
22	16132048	Sarath S L	Mathematics
23	16132049	Sreeraj R	Mathematics
24	16132050	Sruthi S Nair	Mathematics
25	16132051	Vigneesh P	Mathematics
26	16132052	Anandhu S Sivan	Mathematics
27	16132053	Athulya S Unni	Mathematics
28	16132054	Gayathri S	Mathematics

**Certificate Course.-LATEX - A Mathematical Software (2018-2019 )**

**Bio data of students**

SL Number	Register Number	Student's Name	Gender	ADDRESS	STUDENT MOBILE NUMBER	EMAIL ID
1	16132011	Durgadas U S	Female	Santhosh bhavan chittayam inchavilla p.o. kollam	8086667369	durgadasus09@gmail.com
2	16132012	GouriKrishna	Female	Kalluvila Melathil, Kottathala (PO) Kottarakara	8096813164	aiswaryam9182@gmail.com
3	16132013	Hareeshma G S	Female	Gourimandhiram Edayam P.O Edayam	8281480212	www.neerajaprasad2001@gmail.com
4	16132014	Indhu Suresh	Female	196 A Ayathil ,Kollam	9605757811	nithyamhnu2020@gmail.com
5	16132021	Supriya PS	Female	Murali Bhavanam Sree Bhadra Nagar-212, uliyakovil,kollam,691019	9072102239	rohit1942001@gmail.com
6	16132022	Swathy Biju	Female	KOCHUMADATHIL VEEDU PUTHOORMUKKU KULAKKADA P.O. KOTTARAKKARA KOLLAM Pin : 691521	8590713234	saeedanizam7@gmail.com
7	16132023	Varsha P	Female	KavyaSree Kanjaveli P.O. Kollam Pin:- 691602	9633086937	Sneheanil1998007@gmail.com
8	16132024	Vipin Chandran R	Male	Rej Bhavan Murunthal Perinad (PO) Kollam, 691601	9778068538	msswathy2002@gmail.com
9	16132025	Abhijith K	Male	Reghuvilasam Vallyodu PO Ambalamkundu	7558052302	anjanasanthosh1903@gmail.com

10	16132026	Aiswarya Surendra	Female	Cheruthalakkal Puthen Veedu, Kandachira Perinadu P O Kollam	7012489586	archapam1u@gmail.com
11	16132027	Ajaylal A	Male	Rahul nivas kuzhiyam south chandanathope po kollam	7736859793	aromalmani77@gmail.com
12	16132028	Anandhu A L	Male	Charuvila Puthen veedu, Uiacodu, Vakkanadu PO, Kollam 691509	8086391638	eswinb18102002@gmail.com
13	16132029	Apsara Sugunan	Female	Kalluvila Peedikayil, Alummoodu P.O, Mukhathala, Kollam. 691577	7994550121	danielsamsonlawrence@gmail.com
14	16132040	Muhammed Noufal	Male	Shiji Bhavan Palavila, Kuzhinthadam, Ooyor (PO) Kollam-691510	9633086937	devikaprinisuresh@gmail.com
15	16132041	Nidheesh Babu C	Male	Sreechithira Venganoor Venganoor P O	7561082524	gourigouri202@gmail.com
16	16132042	Parvathy Jayan S	Female	Aluvilayi House Angedical South (PO) Kodumon PTA Mavannoor	7558078361	iswaniyuresh220@gmail.com
17	16132043	Parvathy B	Female	Kuthyrappanthay p o Thazhava 690523	7736052315	devanarayanan037@gmail.com
18	16132044	Renjitha Ramanan	Female	KARTHIKEYAM KUMMALLOOR P.O KAITHAKUZHY KOLLAM	6282961478	dersana19@gmail.com
19	16132045	Sajana S	Female	Sreemangalam Edatharapana Elamadu P.O Ayoor kollam	8943145701	kavyathampi02@gmail.com
20	16132046	Sajitha S	Female	Charuvila veedu ,punthalathazham ,pallavi nagar 34 ,kilkollur ,po kollam	9778336949	msiekshmishibu@gmail.com
21	16132047	Sarath Kumar S	Male	Chittazhikathu veedu thevalapuram po puthoor kottarakkara	6382815637	meghasnadh@gmail.com

22	16132048	Sarathi S L	Male	kavuvila veedu chalacode punalur po punalur Ajithbhavan Maru north alumkadavu P O Karunagappally Sivakripa Karamcode PO Varinjalam	8078026878	panchamysr@gmail.com
23	16132049	Sreeraj R	Female		6238568984	r04235301@gmail.com
24	16132050	Sruthi S Nair	Female		7736989568	nyacroxy2001@gmail.com
25	16132051	Vigneesh P	Male	Jayalekshmi, Karingannoor, Karingannoor P.O, Kollam, 691516 Changantharasi Vinesatti, Vilackadu, Medavoor Pellickal (P.O )	9072949313	shijirej2018@gmail.com
26	16132052	Anandhu S Sivan	Male		6282408834	sbminnuvgr@gmail.com
27	16132053	Athulya S Unni	Female	Krishnagatha, Nallila. P. O Changantharasi Vinesatti, .punalathazham ,palleve nagar 34 ,kilkolthur ,po kollam	7561866312	sreelm02@gmail.com
28	16132054	Gayathri S	Female		8301919707	sreelekshimpimalu@gmail.com

**Certificate Course LATEX :- A Mathematical  
Software.....2018-2019  
Selection list of students**

Sl No	Name	Candidate Code	Department
1	16132011	Durgadas U S	Mathematics
2	16132012	GouriKrishna	Mathematics
3	16132013	Hareeshma G S	Mathematics
4	16132014	Indhu Suresh	Mathematics
5	16132021	Supriya PS	Mathematics
6	16132022	Swathy Biju	Mathematics
7	16132023	Varsha P	Mathematics
8	16132024	Vipin Chandran R	Mathematics
9	16132025	Abhijith K	Mathematics
10	16132026	Aiswarya Surendr	Mathematics
11	16132027	Ajaylal A	Mathematics
12	16132028	Anandhu A L	Mathematics
13	16132029	Apsara Sugunan	Mathematics
14	16132040	Muhammed Noufa	Mathematics
15	16132041	Nidheesh Babu C	Mathematics
16	16132042	Parvathy Jayan S	Mathematics
17	16132043	Parvathy B	Mathematics
18	16132044	Renjitha Remanar	Mathematics
19	16132045	Sajana S	Mathematics
20	16132046	Sajitha S	Mathematics
21	16132047	Sarath Kumar S	Mathematics
22	16132048	Sarath S L	Mathematics
23	16132049	Sreeraj R	Mathematics
24	16132050	Sruthi S Nair	Mathematics
25	16132051	Vigneesh P	Mathematics
26	16132052	Anandhu S Sivan	Mathematics
27	16132053	Athulya S Unni	Mathematics
28	16132054	Gayathri S	Mathematics

Durgadas  
 Gouri Krishna  
 Hareeshma  
 Indhu Suresh  
 Supriya PS  
 Swathy Biju  
 Varsha  
 Vipin Chandran  
 Abhijith K.  
 Aiswarya  
 Ajaylal  
 Anandhu  
 Apsara  
 Muhammed Noufa  
 Nidheesh Babu  
 Parvathy Jayan S  
 Parvathy B  
 Renjitha  
 Sajana  
 Sajitha  
 Sarath Kumar S  
 Sarath S L  
 Sreeraj  
 Sruthi S Nair  
 Vigneesh P  
 Anandhu S Sivan  
 Athulya S Unni  
 Gayathri S

**Certificate Course LATEX :- A Mathematical  
Software.....2018-2019**

**list of students passed**

Sl No	Name	Candidate Code	Department
1	16132011	Durgadas U S	Mathematics
2	16132012	GouriKrishna	Mathematics
3	16132013	Hareeshma G S	Mathematics
4	16132014	Indhu Suresh	Mathematics
5	16132021	Supriya PS	Mathematics
6	16132022	Swathy Biju	Mathematics
7	16132023	Varsha P	Mathematics
8	16132024	Vipin Chandran R	Mathematics
9	16132025	Abhijith K	Mathematics
10	16132026	Aiswarya Surendr	Mathematics
11	16132027	Ajaylal A	Mathematics
12	16132028	Anandhu A L	Mathematics
13	16132029	Apsara Sugunan	Mathematics
14	16132040	Muhammed Nouf	Mathematics
15	16132041	Nidheesh Babu C	Mathematics
16	16132042	Parvathy Jayan S	Mathematics
17	16132043	Parvathy B	Mathematics
18	16132044	Renjitha Remanar	Mathematics
19	16132045	Sajana S	Mathematics
20	16132046	Sajitha S	Mathematics
21	16132047	Sarath Kumar S	Mathematics
22	16132048	Sarath S L	Mathematics
23	16132049	Sreeraj R	Mathematics
24	16132050	Sruthi S Nair	Mathematics
25	16132051	Vigneesh P	Mathematics
26	16132052	Anandhu S Sivan	Mathematics
27	16132053	Athulya S Unni	Mathematics
28	16132054	Gayathri S	Mathematics

SREE NARAYANA COLLEGE

KOLLAM

DEPARTMENT OF MATHEMATICS

CERTIFICATE COURSE (2018-2019)

LATEX:- A Mathematical Software

**LIST OF TEACHERS HANDLING THE COURSE**

1. Aswathy S (Assistant Professor , Department of Mathematics)

# **CERTIFICATE COURSE 2018-19**





<b>SREE NARAYANA COLLEGE KOLLAM</b>			
<b>DEPARTMENT OF MATHEMATICS</b>			
<b>CERTIFICATE COURSE 2018-2019</b>			
<b>Latex :- A Mathematical Software</b>			

**TIME TABLE**

Aswathy S			
	<b>DAY</b>	<b>TIME</b>	<b>THEORY/LAB</b>
	MONDAY	8.30 to 9.30	THEORY
		3.15 4.15	Lab
	TUESDAY	8.30 to 9.30	THEORY
		3.15 4.15	THEORY
	WEDNESDAY	8.30 to 9.30	THEORY
		3.15 4.15	THEORY
	THURSDAY	8.30 to 9.30	Lab
		3.15 4.15	THEORY
	FRIDAY	8.30 to 9.30	THEORY
		3.15 4.15	THEORY
	SATURDAY	10 am to 1pm	Lab

	<b>SREE NARAYANA COLLEGE KOLLAM</b>		
	<b>DEPARTMENT OF MATHEMATICS</b>		
	<b>CERTIFICATE COURSE 2018-2019</b>		
	<b>LATEX - A Mathematical Software</b>		
		<b>PRACTICAL EXAM TIME TABLE</b>	
<b>DATE</b>	<b>DAY</b>	<b>TIME</b>	
27/05/19	Monday	1.30pm to 3.30pm	



**CERTIFIED COURSE STUDENTS LIST & ATTENDANCE STATEMENT 2018-2019 (PRACTICAL)**

Sl no	Name	Class	30/3/19	20/4/19	27/4/19
1	Durgadas U S	Mathematics	P	P	P
2	GouriKrishna	Mathematics	P	P	P
3	Hareeshma G S	Mathematics	P	P	P
4	Indhu Suresh	Mathematics	P	P	P
5	Supriya PS	Mathematics	P	P	P
6	Swathy Biju	Mathematics	P	P	P
7	Varsha P	Mathematics	P	P	P
8	Vipin Chandran R	Mathematics	P	P	P
9	Abhijith K	Mathematics	P	P	P
10	Aiswarya Surendran	Mathematics	P	P	P
11	Ajaylal A	Mathematics	P	P	P
12	Anandhu A L	Mathematics	P	P	P
13	Apsara Sugunan	Mathematics	P	P	P
14	Muhammed Noufal	Mathematics	P	P	P
15	Nidheesh Babu C	Mathematics	P	P	P
16	Parvathy Jayan S	Mathematics	P	P	P
17	Parvathy B	Mathematics	P	P	P
18	Renjitha Remanan	Mathematics	P	P	P
19	Sajana S	Mathematics	P	P	P
20	Sajitha S	Mathematics	P	P	P
21	Sarath Kumar S	Mathematics	P	P	P
22	Sarath S L	Mathematics	P	P	P
23	Sreeraj R	Mathematics	P	P	P
24	Sruthi S Nair	Mathematics	P	P	P
25	Vigneesh P	Mathematics	P	P	P
26	Anandhu S Sivan	Mathematics	P	P	P
27	Athulya S Unni	Mathematics	P	P	P
28	Gayathri S	Mathematics	P	P	P

CERTIFIED COURSE STUDENTS MARK LIST 2018-2019					
Sl no	Name	Class	TOTAL MARKS	MARKS OBTAINED	Passed/Failed
1	Durgadas U S	III B.Sc. Mathematics	50	49	Passed
2	GouriKrishna	III B.Sc. Mathematics	50	45	Passed
3	Hareeshma G S	III B.Sc. Mathematics	50	50	Passed
4	Indhu Suresh	III B.Sc. Mathematics	50	50	Passed
5	Supriya PS	III B.Sc. Mathematics	50	40	Passed
6	Swathy Biju	III B.Sc. Mathematics	50	48	Passed
7	Varsha P	III B.Sc. Mathematics	50	50	Passed
8	Vipin Chandran R	III B.Sc. Mathematics	50	48	Passed
9	Abhijith K	III B.Sc. Mathematics	50	48	Passed
10	Aiswarya Surendran	III B.Sc. Mathematics	50	50	Passed
11	Ajaylal A	III B.Sc. Mathematics	50	50	Passed
12	Anandhu A L	III B.Sc. Mathematics	50	48	Passed
13	Apsara Sugunan	III B.Sc. Mathematics	50	47	Passed
14	Muhammed Noufal	III B.Sc. Mathematics	50	48	Passed
15	Nidheesh Babu C	III B.Sc. Mathematics	50	49	Passed
16	Parvathy Jayan S	III B.Sc. Mathematics	50	50	Passed
17	Parvathy B	III B.Sc. Mathematics	50	50	Passed
18	Renjitha Remanan	III B.Sc. Mathematics	50	50	Passed
19	Sajana S	III B.Sc. Mathematics	50	50	Passed
20	Sajitha S	III B.Sc. Mathematics	50	50	Passed
21	Sarath Kumar S	III B.Sc. Mathematics	50	50	Passed
22	Sarath S L	III B.Sc. Mathematics	50	49	Passed
23	Sreeraj R	III B.Sc. Mathematics	50	49	Passed
24	Sruthi S Nair	III B.Sc. Mathematics	50	48	Passed
25	Vigneesh P	III B.Sc. Mathematics	50	50	Passed
26	Anandhu S Sivan	III B.Sc. Mathematics	50	50	Passed
27	Athulya S Unni	III B.Sc. Mathematics	50	49	Passed
28	Gayathri S	III B.Sc. Mathematics	50	44	Passed

**Sree Narayana College, Kollam**

**Department of Mathematics**

**2018-2019**

**Certificate Course Report**

**Title of the Course: Latex :-A Mathematical Software**

A meeting was held on 19/10/2018 at 1.30 pm in the computer lab, Department of Mathematics to discuss about the commencement of certificate course on Latex :-A Mathematical Software.

The members of the board of studies for certificate course were present in the meeting. Chairman :-Vivek P.V. presided the meeting. All together 28 students applied for the course. The classes were handled by smt. Aswathy S., Assistant professor, Department of mathematics S.N.C. Kollam. The class commenced on 04/11/2018 . Both theory and practical classes were conducted for this students.

After successfully completing the classes practical exam was conducted on 27/05/2019 from 1.30 pm to 3.30 pm. All this students attended the exam and the pass percentage was 100%.

Thus the certificate course helped students to gain practical knowledge in this field, also this was an added advantage for the students to enhance their skill development as well as their curriculum vitae.

SREE NARAYANA COLLEGE, KOLLAM  
 Department of Mathematics  
 2018-19

Title of Course : MATLAB Programming  
 Latex: A Mathematical software  
 Meeting held on: 19/10/2018 at computer lab,  
 Department of Mathematics

Minutes Report

Department has decided to commence  
 the classes on 4/11/2018

The board of studies has approved the  
 syllabus  
 The course coordinator has scheduled the  
 programme details and timetable of classes.  
 The board studies has decided to conduct  
 external examinations at the end of year.

Attendance Statement of the Meeting

Sl.No	Name of faculty	Signature
1.	Vivek P.V	<u>Vivek</u>
2	Kulcesa Das	<u>Kulcesa</u>
3	Dr Ambili B	<u>Ambili</u>
4	Aswathy S	<u>Aswathy</u>
5	Adeesh V K	<u>Adeesh</u>
6	Dr Aswathy MR	<u>Aswathy</u>





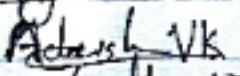
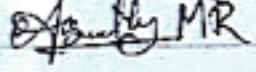
SREE NARAYANA COLLEGE, KOLLAM  
Department of Mathematics  
2018-19

Title of Course : MATLAB programming.  
 Latex : A Mathematical Software  
 Meeting held on: 4/6/2019 at computer lab  
 Department of Mathematics

Minutes Report

The Board of studies has decided to publish the result on 16/7/2019

Attendee statement of the meeting

Sl.No	Name of faculty	Signature
1	Virck P.V	
2	Kaleesa Das	
3	Dr Anbilis	
4	Aswathy S	
5	Adersh VK	
6	Dr Aswathy MR	

Juraththarajil  
Principal  
Sree Narayana College  
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