ST. JOSEPH'S
COLLEGE OF ENGINEERING
AND TECHNOLOGY,
- PALAI -

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Cycle 1 - NAAC Accreditation 2023

Criterion7.2.1

Best Practice: Generic skills and Professional Competencies for Career and Life

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Academic Flexibility

Percentage of students enrolled in Certificate/ Add-on/Value added programs and alsocompleted online MOOC programs like SWAYAM, NPTEL etc.as against the total number of students

Submitted to:

National Assessment and Accreditation Council

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Criterion – 7.2.1

Best Practice: Generic skills and Professional Competencies for Career and Life

CONTENTS

Academic Flexibility

·***Percentage of students enrolled in Certificate/ Add-on/Value added programs and also completed online MOOC programs like SWAYAM, NPTEL etc.as against the total number of students during the last five years***

Number of students enrolled in subject related Certificate/ Add-on/Value added programsand also completed online MOOC programs like SWAYAM, NPTEL etc. year wise during last five years

Year	**18-19**	**19-20**	**20-21**	**21-22**	**22-23**
Number of students completed the specified course(a)	623	1884	2978	1736	2145
Total No. of Students(b)	1863	1838	1894	1977	2150
Percentage (C = (a/b)x100)	33.44	102.50	157.23	87.80	99.76
Average(Sigma C)	96.146				

$Percentage$ = Total number of students enrolled in such programs during the last five years X 100

Total number of students during the last five years

=96.44 %

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Academic Year 2022-2023

Academic Year 2021-2022

Academic Year 2020-2021

Academic Year 2019-2020

Academic Year 2018-2019

Link to Sample Document

Course Completion Certificate -ACADEMIC YEAR 2022-2023

Sl. No	Name of the Add on / Certificate/ Value Added /MOOC Programs	Number of students completed
1	Course on Logical & Critical Thinking -III	485
2	Course on Logical & Critical Thinking -II	490
3	Course on Logical & Critical Thinking -I	513
4	Value Added Course on Microsoft Excel	38
5	Introduction to Engineering Studies	541
6	NPTEL-Cryptography and Network Security	4
7	NPTEL-Deep Learning	2
8	NPTEL-Introduction to Industry 4.0 And Industrial Internet Of Things	7
9	NPTEL-Programming In Java	3
10	NPTEL-Performance and Reward Management	9
11	NPTEL-Managerial Skills for interpersonal dynamics	1
12	NPTEL-Applied Accelerated Artificial Intelligence	1
13	NPTEL-The Joy of Computing using Python	4
14	NPTEL - Digital Circuits	2
15	NPTEL-Wastewater Treatment and Recycling	7
16	COURSERA-AI For Everyone	2
17	NPTEL The Joy of Computing Using Python	2
18	COURSERA- Digital Forensics Concepts	1
19	NPTEL-Toyota Production System	3
20	NPTEL-Innovation Business Models And Entrepreneurship	3

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21	NPTEL- Services Marketing:Integrating People,Technoloy,Strategy	4
22	NPTEL- Strategic Sales Management	6
23	NPTEL-Big Data Computing	1
24	NPTEL-Ecology and Environment	1
25	NPTEL -Electrical Distribution System	1
26	NPTEL-Programming, data structures and algorithms using python	2
27	INTERSHALA- Programming in Python	1
28	NPTEL-Product Design and Development	1
29	NPTEL-Python for Data Science	2
30	COURSERA-Introduction to Psychology	1
31	COURSERA-Python for everybody	1
32	COURSERA-Mathematics for machine learning: Multivariate Calculus	1
33	COURSERA-Foundations: Data ,Data, Everywhere	1
34	Coursera :Technical Support Fundamentals	1
35	NPTEL-Biomedical Nanotechnology	1
36	COURSERA-Mathematics for Machine Learning	1
37	COURSERA-Supervised machine learning: Regression and Classification	1

Course Completion Certificate -ACADEMIC YEAR 2021-2022

Sl. No	Name of the Add on / Certificate/ Value Added /MOOC Programs	Number of students completed
1	Course on Logical & Critical Thinking -III	414
2	Course on Logical & Critical Thinking -II	390
3	Course on Logical & Critical Thinking -I	433
4	Value added course on Entrepreneurship Development	44
5	Value added course on Financial Services	44
6	Value Added Course on Microsoft Excel	44
7	Technical Lectures	88
8	Introduction to Ansys Simulation	44

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9	COURSERA -Algorithmic Toolbox	3
10	NPTEL- Embedded System Design	1
11	NPTEL- GERMAN 3	4
12	NPTEL- Non conventional Energy Resources	1
13	NPTEL-Soft Skills	7
14	NPTEL - Enviornment and Development	2
15	NPTEL- Air Pollution and Control	13
16	NPTEL-Non Conventional Energy Resources	1
17	NPTEL-Non-conventional energy resources	4
18	NPTEL-Ic engines and gas turbines	3
19	NPTEL-Discrete Mathematics	3
20	NPTEL-Ethical Hacking	1
21	NPTEL-Cryptography and Network Security	5
22	NPTEL-Problem Solving through Programming in C	4
23	NPTEL-Introduction To Industry 4.0 And Industrial Internet Of Things	10
24	NPTEL-Introduction to Internet Of Things	7
25	NPTEL-Social Networks	1
26	NPTEL-Introduction to Database Systems	3
27	NPTEL-Deep Learning	2
28	NPTEL-Software Testing	2
29	NPTEL-Computer Architecture	1
30	NPTEL-Entrepreneurship essentials	2
31	NPTEL-Computer Networks and Internet Protocols	1
32	NPTEL-Foundation of Cryptography	2
33	NPTEL-Data Analytics with Python	1
34	COURSERA- Data Structures	4
35	NPTEL- Services Marketing:Integrating People,Technoloy,Strategy	8
36	NPTEL- Emotional Intelligence	2
37	NPTEL-Innovation Business Models And Entrepreneurship	4
38	NPTEL -Managing Services	10

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39	NPTEL- Strategic Performance Management	1
40	NPTEL-Soft Skill DEvelopment	4
41	NPTEL-Enhancing Soft Skills and Personality	1
42	NPTEL - Human Behaviour	1
43	NPTEL - Thae future of manufacturing business:Role of digital technologies	1
44	NPTEL-Building Materials and Composites	2
45	NPTEL-Natural Hazards	1
46	NPTEL-Introduction to Operating Systems	1
47	NPTEL-Cloud Computing and Distributed Systems	5
48	COURSERA- mathematics for Machine Learning:Linear Algebra	1
49	COURSERA- mathematics for Machine Learning:Multivariate Calculus	1
50	Spoken Tutorial C	96
51	MOOC:Business Management Course	1
52	Mycaptain Illustrationes and Dooding Course	1
53	COURSERA- Python basics	3
54	NPTEL-Business Analytics & Data Mining Modelling using R-Part II	1
55	COURSERA-Solar Energy Basics	1
56	COURSERA-Crash course on Python	1

Course Completion Certificate -ACADEMIC YEAR 2020-2021

Sl. No	Name of the Add on / Certificate/ Value Added /MOOC Programs	Number of students completed
1	Essentials of Mathematics & Sciences	487
2	Basics of Professional English	483
3	CAD/VAC	479
4	Course on Logical & Critical Thinking -III	501
5	Course on Logical & Critical Thinking -II	317
6	Course on Logical & Critical Thinking -I	387
7	Value Added Course on Universal Human Values	20
8	International Workshop on Machine Learning Application - An International Perspective.	33

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9	Add on Course on Ethics in Engineering	70
10	Add on Course on Professional Communication	75
11	Introduction to Emerging Technologies in Industry and Research	57
12	NPTEL-Integrated Waste Management for Smart Cities	2
13	NPTEL-Principle of Management	1
14	NPTEL-Municipal Solid waste Management	2
15	NPTEL-Advanced Fluid Mechanics	1
16	NPTEL-Programming in Java	1
17	NPTEL-Problem solving through Programming In C	1
18	NPTEL-Microprocessors and Microcontrollers	1
19	NPTEL-PROBLEM SOLVING THROUGH PROGRAMMING IN C	1
20	IBM: Introduction to data Science	1
21	MOOC: Robotics Course	1
22	SWAYAM -Entrepreneurship development	2
23	Spoken Tutorial C	13
24	Spoken Tutorial Java	3
25	NPTEL-Project Planning and Control	10
26	NPTEL-Data Base Management System	1
27	NPTEL-Landscape Architecture And Site Planning Basic Fundamentals	2
28	NPTEL-Aircraft structures-1	1
29	MOOC :Fundamentals of Digital Marketing	3
30	Add-on :C Programming Fundamentals	5
31	Coursera Astronomy: Exploring time and Space	1
32	Coursera The science of Solar Systems	1
33	Coursera Build a modern computer from first principles: From Nand to Tetris	1
34	Coursera python basics	2
35	Unschool: Community program: Sales and Marketing Intern	1
36	Coursera Introduction to search engine optimization	1
37	Coursera Internet of Things: How did we get here	3

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38	Coursera Doing more with SAS Programming	1
39	MOOC: Internship & Job Preparation	2
40	MOOC: Python & Data Analytics	1
41	MOOC: CODERS HOUSE: Programming in Python	2
42	Coursera Crash course on python	1

Course Completion Certificate -ACADEMIC YEAR 2019-2020

Sl. No	Name of the Add on / Certificate/ Value Added /MOOC Programs	Number of students completed
1	Course on Logical & Critical Thinking -III	468
2	Course on Logical & Critical Thinking -II	415
3	Course on Logical & Critical Thinking -I	317
4	Course on Logical & Critical Thinking -Basics	387
5	Planning a Residential Building-From Site to Handover	49
6	NPTEL-Wastewater Treatment And Recycling	2
7	NPTEL-Entrepreneurship	1
8	NPTEL-Introduction to Internet of Things	37
9	NPTEL-Ethical Hacking	5
10	NPTEL-Introduction to Machine Learning	1
11	NPTEL-Problem solving through Programming In C	1
12	NPTEL-Social Networks	2
13	NPTEL-Conduction and Convection heat transfer	1
14	NPTEL- Fundamentals of automotive systems	1
15	NPTEL- Experimental Methods in Fluid Mechanics	1
16	NPTEL- Engineering Metrology	2
17	NPTEL-Introduction to Internet of things	6
18	NPTEL- Electronic Systems for Cancer Diagnosis	6
19	NPTEL-An introduction to programming through C++	1
20	NPTEL-Plastic Waste Management	4
21	NPTEL-Introduction to Civil Engineering Profession	3
22	NPTEL-Cloud Computing	4
23	NPTEL-Data Base Management System	8

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24	NPTEL-Cloud Computing	1
25	NPTEL-Introduction to Smart grid	1
26	NPTEL-Marketing Management	1
27	NPTEL-Developing soft skills and personality	1
28	NPTEL-Programming datastructures and algorithms using Python	2
29	INTERNSHALA- Programming with C and C++	1
30	INTERNSHALA- Programming with Python	1
31	Spoken Tutorial Python	40
32	Spoken Tutorial Java	51
33	NPTEL-Geotechnical Engineering Laboratory	17
34	NPTEL-Introduction To Geographic Information Systems	1
35	NPTEL-Electronic Waste Management - Issues And Challenges	7
36	NPTEL-Electric Vehicles	3
37	COURSERA- Introduction to HTML5	1
38	COURSERA-The Bits and Bytes of Computer Networking	1
39	COURSERA- VR and 360 Video Production	3
40	COURSERA- Electric Power Systems	3
41	COURSERA-Project: Visual Machine Learning with Yellowbrick	1
42	COURSERA- Energy Production,Distribution & Safety	1
43	COURSERA- Technical Support Fundamentals	1
44	NPTEL- Product design using value engineering	1
45	NPTEL- Product Design and Innovation	1
46	NPTEL-Selection of Nanomaterials for Energy Harvesting and Storage applications	1
47	NPTEL-Inspection and Quality Control in Manufacturing	4
48	NPTEL-Biomedical Nanotechnology	4
49	NPTEL-Understanding Design	1
50	Coursera-The evolving universe	1
51	Coursera-Neural networks and deep learning	1
52	NPTEL-GPS Surveying	2
53	Coursera-Anatomy : Musculoskeletal and Integumentary Systems	1
54	Coursera-Computational Neuroscience	2

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55	Coursera-Introduction to Cybersecurity tools and Cyberattacks	1
56	Coursera-Python Basics	1
57	Coursera-Python functions, files and dictionaries	1
58	Coursera-The technology of music production	1
59	Coursera-Crash course on Python	1

Course Completion Certificate -ACADEMIC YEAR 2018-2019

Sl. No	Name of the Add on / Certificate/ Value Added /MOOC Programs	Number of students completed
1	Course on Logical & Critical Thinking	406
2	NPTEL-The Joy of Computing using Python	4
3	NPTEL-Deep Learning	1
4	NPTEL-Blockchain Architecture Design and Use Cases	1
5	NPTEL-Artificial Intelligence: Search Methods for Problem solving	1
6	NPTEL-Programming in Java	1
7	NPTEL-Control Engineering	1
8	NPTEL: Introduction to internet of Things	1
9	NPTEL-Energy Conservation and Waste Heat Recovery	1
10	NPTEL-Introduction to Programming in C	5
11	NPTEL-Introduction to Machine Learning	1
12	NPTEL-Data Base Management Systems	22
13	NPTEL-Automatic Control	1
14	NPTEL: Analog Circuits	2
15	NPTEL-Automatic control	1
16	NPTEL-Introduction to airplane performance	1
17	NPTEL-Joining Technologies for Metals	1
18	NPTEL- Advances in UHV Transmission and Distribution	1
19	NPTEL-Enhancing Soft Skills and Personality	1
20	NPTEL-Plastic Waste Management	20
21	Spoken Tutorial Latex	9
22	Spoken Tutorial Java	61

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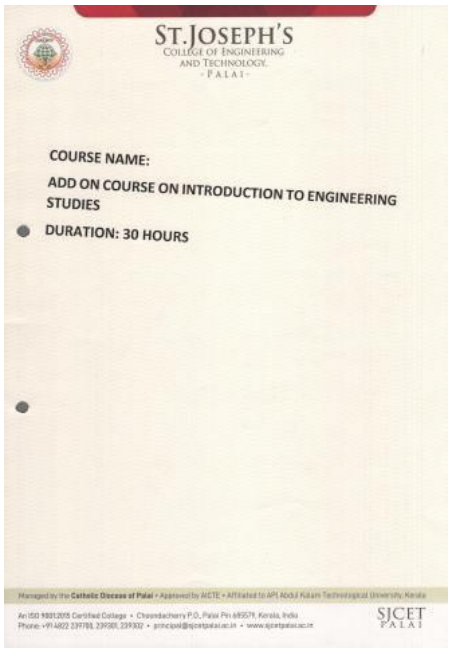
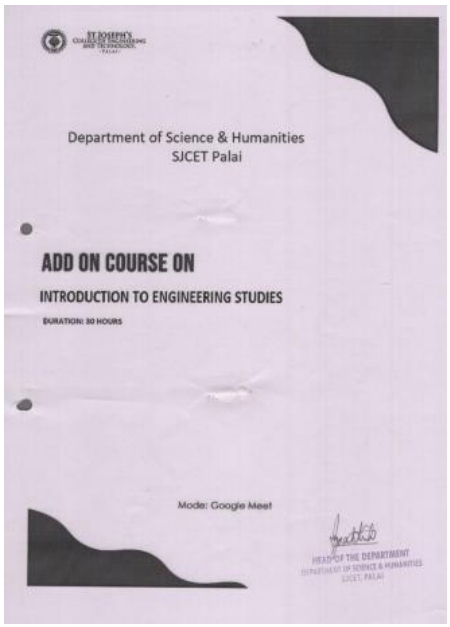
23	Python Bootcamp: Go from Zero to hero in Python	1
24	MOOC: Java Programming	1
25	Udemy:Python Basics	1
26	NPTEL-Introduction To Remote Sensing	1
27	Coursera: Machine Learning	1
28	NPTEL:Real Time operating Systems	1
29	NPTEL-Product Design and Development	13
30	NPTEL-Product Design and Innovation	4
31	NPTEL-Inspection and Quality Control in Manufacturing	18
32	NPTEL-Reinforced Concrete Road Bridges	12
33	NPTEL-Electronic Waste management- Issues and challenges	27

Sample Certificate





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CERTIFICATE

This is to certify that

Mr./Ms. ABHA JAYAKRISHNAN

attended the add-on course on "Introduction to Engineering Studies" conducted by the department of Science & Humanities, St. Joseph's College of Engineering and Technology, Palai from 26-09-2022 to 17-11-2022.

Dr. Ginu Ann George, Coordinator

Dr. Ignatius Korah, HoD, Dept. of S&H

CERTIFICATE

This is to certify that

Mr./Ms. ABIA ANTONY

attended the add-on course on "Introduction to Engineering Studies" conducted by the department of Science & Humanities, St. Joseph's College of Engineering and Technology, Palai from 26-09-2022 to 17-11-2022.

Dr. Ginu Ann George, Coordinator

Dr. Ignatius Korah, HoD, Dept. of S&H

CERTIFICATE

This is to certify that

Mr./Ms. ABIN B

attended the add-on course on "Introduction to Engineering Studies" conducted by the department of Science & Humanities, St. Joseph's College of Engineering and Technology, Palai from 26-09-2022 to 17-11-2022.

Dr. Ginu Ann George, Coordinator

Dr. Ignatius Korah, HoD, Dept. of S&H

CERTIFICATE

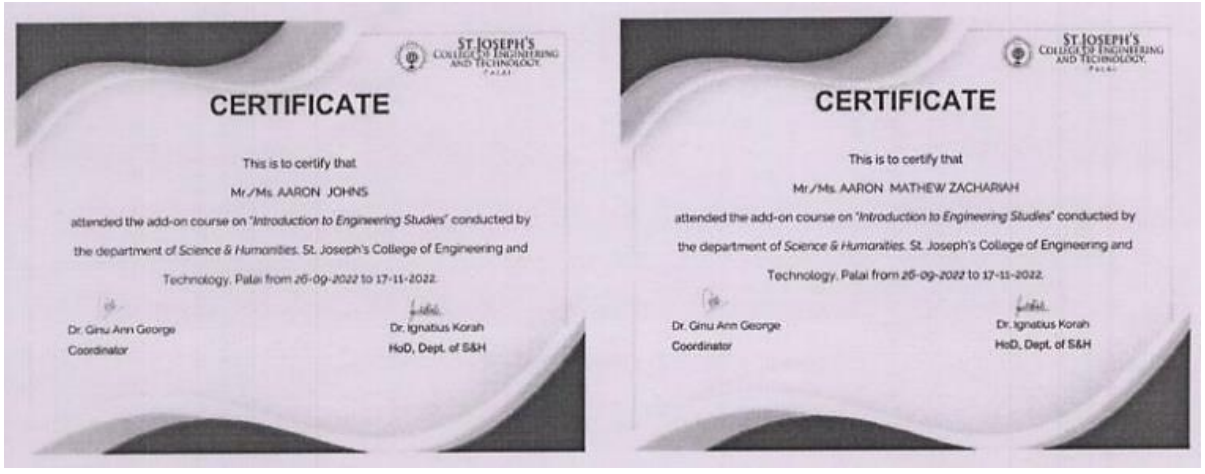
This is to certify that

Mr./Ms. ABIN JOSEPH

attended the add-on course on "Introduction to Engineering Studies" conducted by the department of Science & Humanities, St. Joseph's College of Engineering and Technology, Palai from 26-09-2022 to 17-11-2022.

Dr. Ginu Ann George, Coordinator

Dr. Ignatius Korah, HoD, Dept. of S&H



CERTIFICATE

This is to certify that

Mr./Ms. AARON JOHNS

attended the add-on course on "Introduction to Engineering Studies" conducted by the department of Science & Humanities, St. Joseph's College of Engineering and Technology, Palai from 26-09-2022 to 17-11-2022.

Dr. Ginu Ann George, Coordinator

Dr. Ignatius Korah, HoD, Dept. of S&H

CERTIFICATE

This is to certify that

Mr./Ms. AARON MATHEW ZACHARIAH

attended the add-on course on "Introduction to Engineering Studies" conducted by the department of Science & Humanities, St. Joseph's College of Engineering and Technology, Palai from 26-09-2022 to 17-11-2022.

Dr. Ginu Ann George, Coordinator

Dr. Ignatius Korah, HoD, Dept. of S&H

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