THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCE

REPORT ON COURSE FEEDBACK BY FACULTY

ACADEMIC YEAR : 2022-2023, Odd Semester

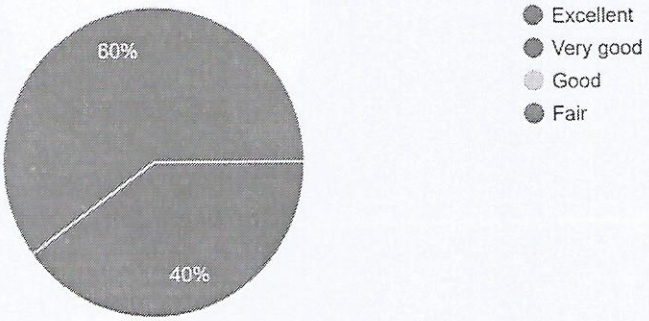
Date: 09-02-2023

Google form:
https://docs.google.com/forms/d/1gM91f5HDFlfG1q5j1aV595yHDsvS7BfzVzWIvWzJ9i0/edit#responses

General Observations	• All the courses except Applied Physics are found to be important and relevant to the current trend of industry needs and societal needs • Scheduling of courses, course listings and Course outcomes shall be revisited to accommodate more insights on data science • Proficiency level of students are found to be high • Availability of text books and other content is satisfactory • ICT tools other than Power point and active learning techniques shall be used extensively inside the class • Mini projects shall be introduced as a part of curriculum

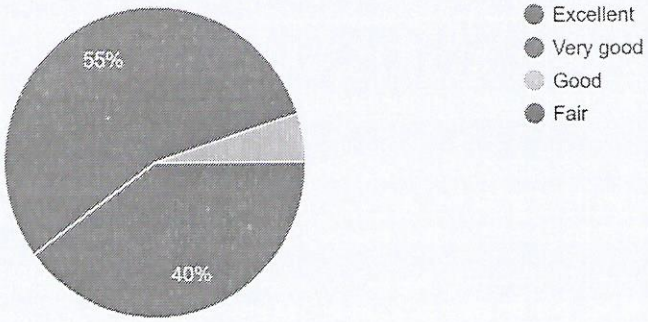
Importance and relevance of the course to industry and societal needs

20 responses



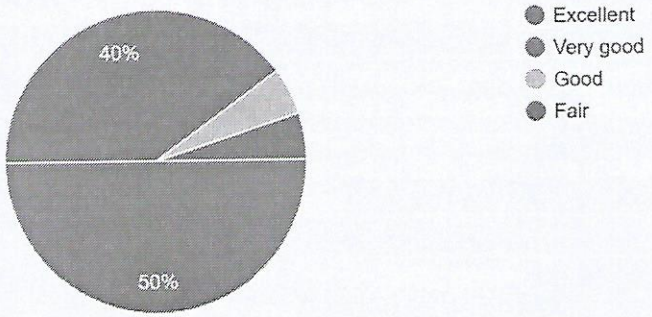
Formulation of Course Outcomes, assessment pattern and mapping of Program Outcomes

20 responses



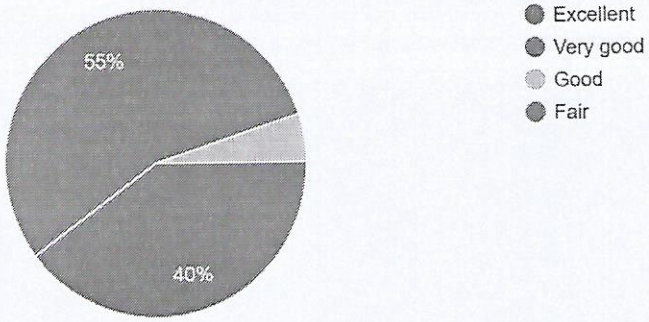
Appropriateness of course content to course outcomes

20 responses



Adequacy of time for effective coverage of syllabus/lab experiments

20 responses



Innovative teaching methodologies:

Active learning, Collaborative learning, seminar by senior students, Project based learning,

Innovative assessment tools:

Mini projects, Concept tests, Plickers, Poster presentaion, Quiz, Review reports

Modern ICT Tools used: LMS (Google classroom , CANVAS), Plickers, Online code builders, Spreadsheets

Course code	Course Name	Observations from Faculty feedback and action to be taken
21DS110	Calculus	- Unit 1 can be modified as the basics they have studied in their higher secondary Basics of differentiation and integration can be removed
21DS120	Applied Physics	Vast topics ; Physics need not be a part of the curriculum
21DS130	Digital Electronics	Vast content that shall be reduced and can be combined with computer organization
21DS140	Problem Solving using C programming	Need more time for practical real time examples
21DS150	Discrete Structures	Unit 5 can be modified, as it has huge concept in one unit In Automata Theory, topics are more. It can be revised
21DS170	C programming lab	
21DS180	Professional Communication	Can be renamed Professional English activities shall be added
21DS310	Applied Statistics	
21DS320	Linear Algebra	Can be placed after Abstract algebra
21DS330	Organizational Theory	

	And Behaviour	
21DS340	Advanced Data Structures	B – trees; Red black trees; m-d trees, splay trees, Fibonacci heap; requires more attention Data structures of 2nd sem and 3rd sem shall be restructured and can be moved to 2nd year
21DS350	Computer Organization	Can be combined with Digital Electronics
21DS370	Applied Statistics With Python	Lab can be associated with basic python programming as students are new to Python for the lab
21DS380	Advanced Data Structures Lab	Graph programs and sorting programs cannot be done as there is no theory connected to these topics. Instead of binomial heap, binary heap operations shall be performed Course outcomes need to be updated Exercises in Advanced Data Structures shall be given along with theory and separate lab need not be given
19DS510	Numerical Methods	-
19DS520	Web Technology	Limited time for in-depth practice Java Applets
19DS530	Computer Networks	Course Outcomes shall be modified; Practice of Network tools shall be part of the different layers.
19DS540	Machine Learning	Mathematical derivation, Bayesian regression Lot of focus on regression only; can be redesigned to incorporate popular ML algorithms Too much of Bayesian touch shall be reduced
19DSPJ0	Software Engineering	-
19DS570	Java programming lab	-
19DS580	Web Technology Lab	More time needed for practice all the modern methods; Project Based Learning shall be practiced; More industry/alumni guest lectures shall be arranged

Anitha D 9/2/23
TLP Coordinator

HODAMCS

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCE

REPORT ON COURSE FEEDBACK BY FACULTY

ACADEMIC YEAR : 2022-2023, Even Semester

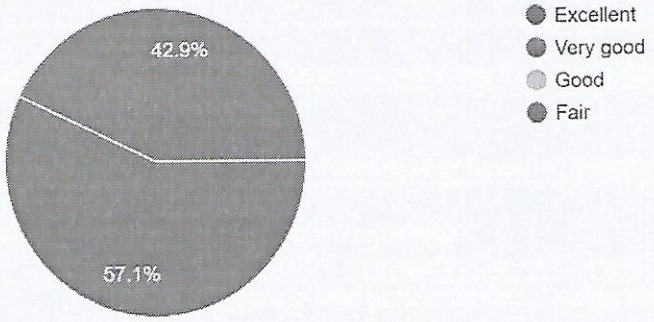
Date: 31-08-2023

Google form:
https://docs.google.com/forms/d/1gM91f5HDFlfG1q5j1aV595yHDsvS7BfzVzWIvWzJ9i0/edit#responses

General Observations	• All the courses are found to be important and relevant to the current trend of industry needs and societal needs • Course outcomes shall be revisited • Proficiency level of students are found to be high • Availability of text books and other content is satisfactory • ICT tools other than Power point shall be used extensively inside the class • Joint teaching/webinars are conducted for few courses to enhance knowledge • Mini projects shall be introduced as a part of curriculum

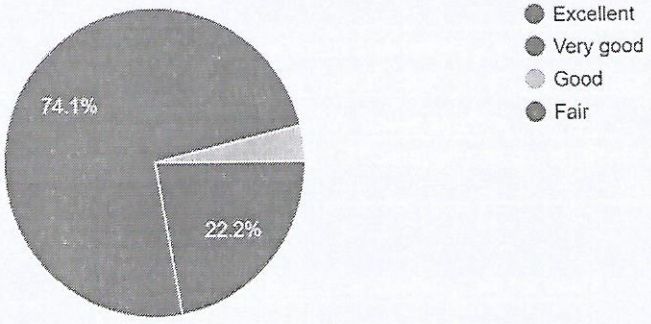
Importance and relevance of the course to industry and societal needs

28 responses



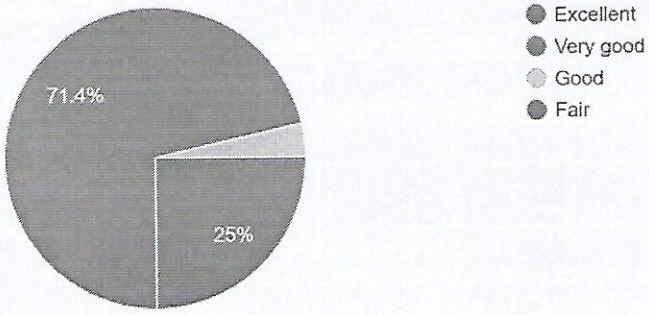
Formulation of Course Outcomes, assessment pattern and mapping of Program Outcomes

27 responses



Appropriateness of course content to course outcomes

28 responses



Innovative teaching methodologies:

Active learning, Collaborative learning, Peer Coaching, Realtime problem case-studies,

Innovative assessment tools:

Mini projects, Concept tests, Business review, Plickers, Online coding, Quiz, Review reports

Modern ICT Tools used: LMS (Googel classroom , CANVAS), Plickers, Online code builders,

Course code	Course Name	Observations from Faculty feedback and action to be taken
21DS210	Theory of Probability	Few important distributions can be added Reliability unit can be modified
21DS220	Transforms and its Applications	- Partial differentiation equations Can be moved to 3rd semester as there are two other mathematics papers
21DS230	Data Structures	Course outcomes need to be modified. Sorting and linear - binary searching algorithms Can be moved to 3rd semester as the students need to have a conceptual understanding of foundations
21DS240	Object Oriented Programming	More Projects shall be discussed
21DS250	Graph Theory	
21DS270	Object Oriented Programming Lab	
21DS280	Data Structures Lab	Time of completion is challenging; and hence can be moved to 3rd semester Linear and Binary Search shall be added; Sorting algorithms shall be inserted in theory
21DS410	Abstract Algebra	Shall be placed before linear algebra
21DS420	Applied Statistics	Can be moved to the 2nd semester as the students need to understand statistics in earlier semesters
21DS430	Design And Analysis Of Algorithms	Assignments shall be addressing higher level of cognitive skills
21DS440	Operating Systems	Can be moved to earlier semester
21DS450	Predictive Analytics	Course outcomes should be rewritten to reflect the content; Revision of Time series analysis part is needed; Regression trees shall be added . More practical demonstration and supplementing lab exercises shall be given; Lab shall be introduced
21DS470	Relational database Lab	Projects for connecting Database with front end applications shall be done New database systems shall be introduced Find the necessity of PL/SQL; Trigger, cursor needs to embedded based on the real time usage
21DS480	Design and Analysis of Algorithms Lab	-
19DS610	Deep learning	-
19DS620	Data Mining	Streaming data is more tough; Case studies for handling streaming data shall be a part of the course Course content shall be made specific with the names of algorithms

19DS630	Big Data Systems	Handling streaming data shall be included
19DS640	Optimization Techniques	Gomory Integer programming is challenging
19DSPB0	Mobile Application Development	Demos inside classroom with limited system configuration
19DS670	BIG Database Systems LAB	Hadoop architecture shall be used; Streaming data handling can be a part of the exercises
19DS680	Deep learning lab	-
19DS810	Reinforcement Learning	
19DS820	Information Security	Issues in implementing hacking tools Block Chain and Information security concepts shall be moved to Elective list Vast syllabus ; and not so relevant to Data Science curriculum
19DS830	Business Analytics	Python tutorial shall be a part of the course; Lab can be supplemented for this; Data querying and reporting shall be added Regression; More business case studies shall be presented
19DS840		
19DS870	Mathematical Computing Lab	
19DS880	Information Security Lab	Issues in implementing hacking tools Lab not relevant to Data Science curriculum; anY other data science related laboratory shall be replaced

Anitha D /31/8/23
TLP Coordinator

HODAMCS

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCE

REPORT ON COURSE FEEDBACK BY FACULTY

ACADEMIC YEAR : 2021-2022, Odd Semester

Date: 19-04-2022

General Observations	• All the courses are found to be important and relevant to the current trend of industry needs and societal needs • Course outcomes shall be revisited • Proficiency level of students are found to be high • Availability of text books and other content is satisfactory • ICT tools other than Power point and active learning techniques shall be used extensively inside the class

Course code	Course Name	Challenging topics	Course contents that can be added/modified	Course contents that can be removed
19DS110	Calculus	-	Unit 1 can be modified as the basics they have studied in their higher secondary	Basics of differentiation and integration can be removed
19DS120	Applied Physics	Vast topics ;	Lasers and its Applications	SMA and its Application
19DS130	Digital Electronics	Vast content that shall be reduced		-
19DS140	Problem Solving using C programming		Need more time for practical real time examples	
19DS150	Discrete Structures	-	Unit 5 can be modified, as it has huge concept in one unit	In Automata Theory, topics are more. It can be revised
19DS170	C programming lab	-	-	-
19DS180	Professional Communication	-	-	-
19DS310	Applied Statistics	-	-	-
19DS320	Linear Algebra	-	-	-
19DS330	Organizational Theory And Behaviour	-		-
19DS340	Advanced Data Structures	B – trees;	Red black trees;	m-d trees, splay trees, Fibonacci heap; Data structures of 2nd sem and 3rd sem shall be restructured
19DS350	Computer Organization	I/O ports	Floating point representation	-
19DS370	Applied Statistics With Python	-	-	-
19DS380	Advanced Data Structures Lab	Graph programs and sorting programs as there is no theory connected to these topics	Instead of binomial heap, binary heap operations shall be performed	Binomial heap and disjoint sets; Instead binary heap and more graphs problems shall be include in experiments;
19DS510	Numerical Methods	Coverage of syllabus	Sparse matrix	-
19DS520	Web Technology	Limited time for in-depth practice		Java Applets
19DS530	COMPUTER NETWORKS	Network tools		Network Security
19DS540	MACHINE LEARNING	Mathematical derivation, Bayesian regression	Lot of focus on regression only; can be redesigned to incorporate popular ML algorithms	Too much of Bayesian touch shal be reduced
19DSPJ0	SOFTWARE ENGINEERING	-	-	-
19DS570	Java programming lab	-	-	-
19DS580	Web Technology Lab	More time needed for practice all the modern methods		

TLP Coordinator

HODAMCS 19/4/22

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCE

REPORT ON COURSE FEEDBACK BY FACULTY

ACADEMIC YEAR : 2021-2022, Even Semester

Date: 31-08-2022

General Observations	• All the courses are found to be important and relevant to the current trend of industry needs and societal needs • Course outcomes shall be revisited • Proficiency level of students are found to be high • Availability of text books and other content is satisfactory • ICT tools other than Power point shall be used extensively inside the class • Joint teaching/webinars are conducted for few courses to enhance knowledge

Course code	Course Name	Challenging topics	Course contents that can be added/modified	Course contents that can be removed
19DS210	Theory of Probability	-	-	Few important distributions can be added Reliability unit can be modified
19DS220	Transforms and its Applications	-	Partial differentiation equations	-
19DS230	Data Structures	Binary trees	Course outcomes need to be modified. Sorting and linear - binary searching algorithms	-
19DS240	Object Oriented Programming	-	-	More Projects shall be discussed
19DS250	Graph Theory	-	-	-
19DS270	Object Oriented Programming Lab			
19DS280	Data Structures Lab	Time of completion is challenging;	Linear and Binary Search shall be added; Sorting algorithms shall be inserted in theory	
19DS410	Abstract Algebra	-	-	=
19DS420	Applied Statistics	-	-	-
19DS430	Design And Analysis Of Algorithms	-	-	-
19DS440	Operating Systems	-	-	-
19DS450	Predictive Analytics	Wald test, ARIMA Models;	Course outcomes should be rewritten to reflect the content; Revision of Time series analysis part	Causality analysis
19DS480	Design and Analysis of Algorithms Lab	-	-	-
19DS610	Deep learning	-	-	-
19DS620	DATA MINING	Streaming data	Course content shall be made specific with the names of algorithms	-
19DS630	Big Data Systems	-	-	-
19DS640	Optimization Techniques	-	-	-
19DSPB0	Mobile Application Development	Demos inside classroom with limited system configuration	-	-
19DS670	BIG DATABASE SYSTEMS LAB	Variety of Database	-	-
19DS680	Deep learning lab	-	-	-

TLP Coordinator

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THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCE

REPORT ON COURSE FEEDBACK BY FACULTY

ACADEMIC YEAR : 2020-2021, Odd Semester

General Observations	• All the courses are found to be important and relevant to the current trend of industry needs and societal needs • Course outcomes shall be revisited • Proficiency level of students are found to be high • Availability of text books and other content is satisfactory • ICT tools other than Power point shall be used extensively inside the class

Course code	Course Name	Challenging topics	Course contents that can be added/modified	Course contents that can be removed
19DS110	Calculus	-	Unit 1 can be modified as the basics they have studied in their higher secondary	Fully basics of differentiation and integration, already the students have learned in their higher secondary classes. It can be removed
19DS120	Applied Physics	-	-	-
19DS130	Digital Electronics	-	-	-
19DS140	Problem Solving using C programming		Need more time for practical real time examples	
19DS150	Discrete Structures	-	Unit 5 can be modified, as it has huge concept in one unit	In Automata Theory, topics are more. It can be revised
19DS170	C programming lab	-	-	-
19DS180	Professional Communication	-	-	-
19DS310	Applied Statistics	Excel Spread Sheets Demonstration	-	-
19DS320	Linear Algebra	-	-	-
19DS330	Organizational Theory And Behaviour	-	Some topics related to HR A-lyrics may be added. In that case, availability of course books to be verified.	-
19DS340	Advanced Data Structures	Amortized complexity, Analysis part of heaps, Application of disjoint sets	Graph data structures are not introduced in 19DS230 and 19DS340. Also none of the courses introduces sorting algorithms. Instead of Set, Graphs can be introduced	
19DS350	Computer Organization	Integer Division	-	-
19DS370	Applied Statistics With Python	-	-	-
19DS380	Advanced Data Structures Lab	Graph programs and sorting programs as there is no theory connected to these topics	Instead of binomial heap, binary heap operations shall be performed Course outcomes are not good ; We need to change	Binomial heap and disjoint sets; Instead binary heap and more graphs problems shall be include in experiments;

Anitha D / 3/1/2022
TLP Coordinator

HODAMCS 3/1/2022

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCE

REPORT ON COURSE FEEDBACK BY FACULTY

ACADEMIC YEAR : 2020-2021, Even Semester

General Observations	• All the courses are found to be important and relevant to the current trend of industry needs and societal needs • Course outcomes shall be revisited • Proficiency level of students are found to be high • Availability of text books and other content is satisfactory • ICT tools other than Power point shall be used extensively inside the class

Course code	Course Name	Challenging topics	Course contents that can be added/modified	Course contents that can be removed
19DS210	Theory of Probability	-	-	Unit 1 can be removed as they have studied in higher secondary
19DS220	Transforms and its Applications	-	-	-
19DS230	Data Structures	Binary trees	Course outcomes need to be modified. There are some specific applications given in the syllabus that can be given under the topic of case study.	Need so much of time to complete the syllabus and practice new algorithms. Group work shall be given. online coding platforms shall be used effectively
19DS240	Object Oriented Programming	-	-	More Projects shall be discussed
19DS250	Graph Theory	-	-	-
19DS270	Object Oriented Programming Lab			
19DS280	Data Structures Lab	Hash table; time of completion is challenging;	-	Set experiment shall be removed;
19DS410	Abstract Algebra	-	-	In some units like Rings and Fields more theoretical concepts are there. It can be removed
19DS420	Applied Statistics			
19DS430	Design And Analysis Of Algorithms	-	-	-
19DS440	Operating Systems			
19DS450	Predictive Analytics	Auto regression, Wald test, ARIMA Models;	Course outcomes should be rewritten to reflect the content	-
19DS480	Design and Analysis of Algorithms Lab	-	-	-

Anitha D / 3/1/2022

TLP Coordinator

HODAMCS 3/1/2022

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCE

M.Sc. Data Science (5 yrs. integrated)

REPORT ON COURSE FEEDBACK BY FACULTY

ACADEMIC YEAR : 2019-2020, Even Semester

Course Code	Faculty Review
General Observations	• All the courses are found to be important and relevant to the current trend of industry needs and societal needs • Course outcomes shall be revisited • Proficiency level of students are found to be high • Availability of text books and other content is satisfactory • ICT tools other than Power point shall be used extensively inside the class
19DS210	Unit I deals with basics mathematics which have been taught in Higher secondary mathematics. These portions shall be reduced
19DS220	-
19DS230	-
19DS240	Online coding and concept test are used for assessment
19DS250	Course outcomes shall be improved Course content shall be made more appropriate with Course outcomes
19DS270	Availability and use of software for the conduct of Laboratory experiments is good; Mini projects are given
19DS280	Availability of software is good; Mini projects are given

Action to be taken in the next revision of syllabus:

1. Revisit of all course outcomes
2. Course content shall be revisited based on the requirements and reviews from faculty, student and other stake holders.

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Anitha D

TLP Coordinator

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCE

M.Sc. Data Science (5 yrs integrated)

REPORT ON COURSE FEEDBACK BY FACULTY

ACADEMIC YEAR : 2019-2020, Odd Semester

Course Code	Faculty Review
General Observations	• All the courses are found to be important and relevant to the current trend of industry needs and societal needs • Course outcomes shall be revisited • Proficiency level of students are found to be high • Availability of text books and other content is satisfactory • ICT tools other than Power point shall be used extensively inside the class
19DS110	Unit I deal with basics of differentiation and integration which have been taught in Higher secondary mathematics. These portions shall be reduced Time shall be allotted for more practice problems
19DS120	Course outcomes shall be improved
19DS130	-
19DS140	More time needed to give hands on training to students
19DS150	Portions in automata theory in more and shall be reduced
19DS170	Availability and use of software for the conduct of Laboratory experiments is good

Action to be taken in the next revision of syllabus:

1. Revisit of all course outcomes
2. Course content shall be revisited based on the requirements and reviews from faculty, student and other stake holders.

HODAMCS

Anitha D

TLP Coordinator