



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

INDRA GANESAN COLLEGE OF ENGINEERING





Dr. G. Balakrishnan, M.E. Ph.D.,
Principal

Indra Ganesan

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IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620 012

TO WHOMSOEVER IT MAY CONCERN

1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website.

Feedback process of the institution may be classified as follows:

- A. Feedback collected, analyzed, action taken & communicated to the relevant bodies and feedback hosted on the institutional website
- B. Feedback collected and analyzed
- C. Feedback collected
- D. Feedback not collected

Response: Option A. Feedback collected, analyzed, action taken & Communicated to the relevant bodies and feedback hosted on the institutional website.

PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



Criterion 1	Curricular Aspects	100
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1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website.

2022-2023

S.NO	DETAILS	PAGE NO
1.	FEEDBACK ANALYSIS REPORT (Student, Faculty, alumni, Parent, Employer)	04-13
2.	ACTION TAKEN REPORT	14-15
3.	PROOF OF ACTION REPORT	15-25



INDRA GANESAN COLLEGE OF ENGINEERING

IG Valley, Manikandam, Tiruchirappalli, Tamil Nadu – 620 012, India
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STUDENT FEEDBACK ANALYSIS ON Academic Performance and Ambience ACADEMIC YEAR 2022-23

A. STUDENT FEEDBACK ON CURRICULUM

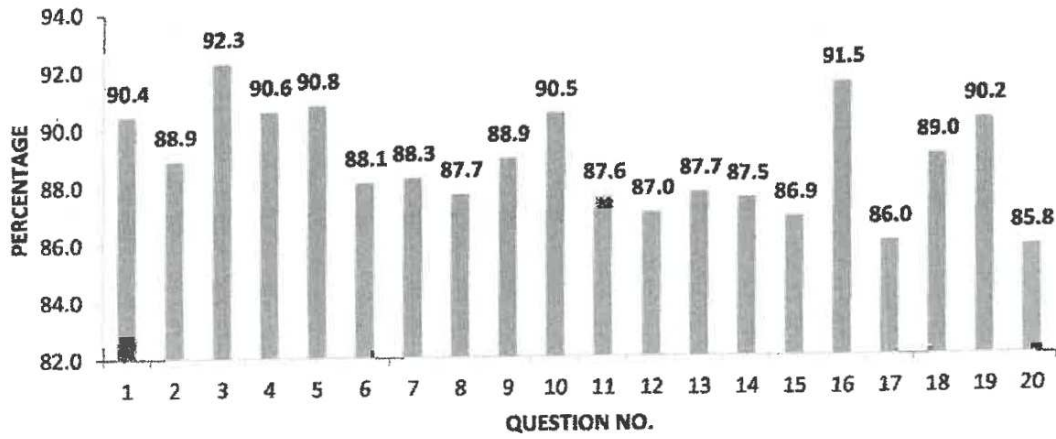
S.No.	QUESTIONS	PERCENTAGE
1.	Rate the composition of the courses based on Basic Science, Engineering Science, Humanities and Social Sciences, Professional Core, Professional Elective, Open Elective, Employment Enhancement Courses and Project Work etc.,	90.4
2.	Rate the appropriateness of sequence of the courses provided in the Curriculum.	88.9
3.	Rate the appropriateness of sequence of the units of the courses provided in the Curriculum.	92.3
4.	Rate the adequate number of text books and reference books mentioned for the courses.	90.6
5.	Rate the implementation of CBCS in the Curriculum.	90.8
6.	Rate the content of courses offered in the curriculum to motivate the students to pursue for their higher studies, carrier orientation and research work.	88.1
7.	Rate the electives offered in the curriculum in relevance to technological advancements.	88.3
8.	Rate the availability of course content with respect to industry readiness.	87.7
9.	Rate the number of experiments available in the laboratory courses with respect to real time problems.	88.9
10.	Rate balance between theory and the laboratory courses available in the Curriculum.	90.5

B. STUDENT FEEDBACK ON AMBIENCE (INFRA STRUCTURE)

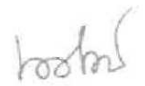
11.	Rate the availability of well-furnished class rooms, ICT facilities used for teaching & learning process.	87.6
12.	Rate the availability of text & reference books and journals in the central library.	87.0
13.	Rate the initiatives followed by the institution to provide safe & secure, clean campus environment for active learning.	87.7
14.	Rate the initiatives followed by the institution to allow the students to participate in intra /inter/state / national /international level competitions.	87.5
15.	Rate the quality, quantity and price of food served to the students in the canteen.	86.9
16.	Rate the transport facility provided by the Institution.	91.5
17.	Rate the facility available for waste disposal in the college campus.	86.0
18.	Rate the facility available for disabled friendly environment in the college campus.	89.0
19.	Rate the availability of renewable energy sources in the college campus.	90.2
20.	Rate the best practices implemented by the Institution.	85.8

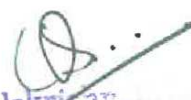

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Manikandam, Trichy-620 012.

Student Feedback on Academic Performance and Ambience Academic Year 2022-2023




IQAC Coordinator


Principal


Dr. G. Balakrishnan
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



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FACULTY FEEDBACK ANALYSIS ON Academic Performance and Ambience ACADEMIC YEAR 2022-23

A.FACULTY FEEDBACK ON CURRICULUM

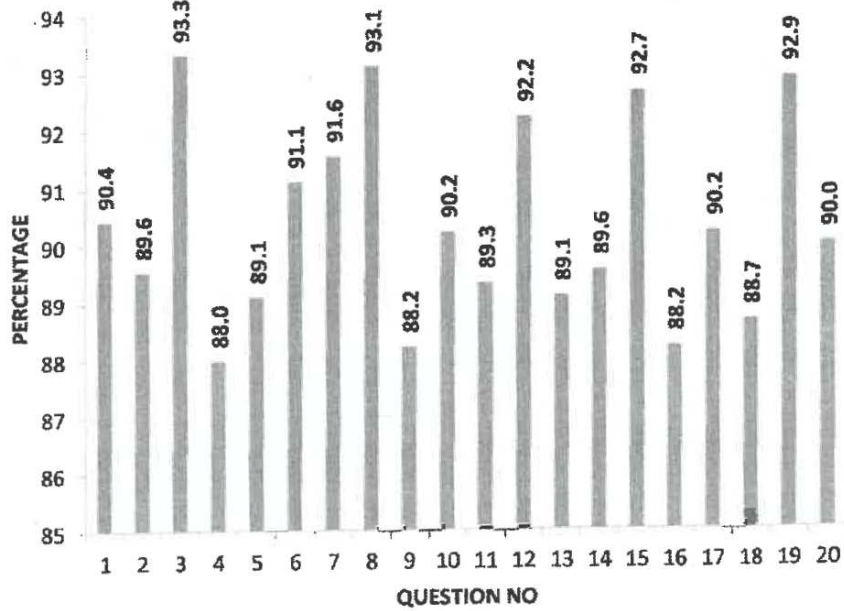
S.No.	QUESTIONS	PERCENTAGE
1.	Rate the clarity in definition of course objectives and outcomes in the syllabus.	90.4
2.	Rate the allocations of hours prescribed in the syllabus with respect to the course content.	89.6
3.	Rate the number of text and reference books mentioned in the syllabus.	93.3
4.	Rate the coverage of units as per the prescribed text books and reference books.	88.0
5.	Rate the content of recent technologies mentioned in the syllabus.	89.1
6.	Rate the clarity of mapping the COs with POs and PSOs in the syllabus.	91.1
7.	Rate the availability of curriculum to bridge the gap between the industry and institute.	91.6
8.	Rate the course content that supports to enrich the faculty knowledge for continuous teaching and learning process.	93.1
9.	Rate the composition of the courses based on Basic Science, Engineering Science, Humanities and Social Sciences, Professional Core, Professional Elective, Open Elective, Employment Enhancement Courses and Project Work etc.,	88.2
10.	Rate the electives offered in the curriculum in relevance to technological advancements.	90.2

B.FACULTY FEEDBACK ON AMBIENCE(INFRA STRUCTURE)


11.	Rate the availability of ERP software, ICT facilities used for teaching and learning process.	89.3
12.	Rate the availability of text & reference books and journals in the library.	92.2
13.	Rate the initiatives followed by the institution to provide safe & secure, clean campus environment for active learning.	89.1
14.	Rate the faculty performance appraisal system implemented by the Institution.	89.6
15.	Rate the quality, quantity and price of food offered in the canteen.	92.7
16.	Rate the transport facility provided by the Institution.	88.2
17.	Rate the facility available for waste disposal in the college campus.	90.2
18.	Rate the facility available for disabled friendly environment in the college campus.	88.7
19.	Rate the availability of renewable energy sources in the college campus.	92.9
20.	Rate the welfare measures implemented by the Institution for staff.	90.0


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**Faculty Feedback on Academic Performance and Ambience
Academic Year 2022-2023**




IQAC Coordinator


Dr. G. Balakrishnan, M.E., Ph.D.
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Principal



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PARENTS FEEDBACK ANALYSIS ON Academic Performance and Ambience ACADEMIC YEAR 2022-23

A.PARENT FEEDBACK ON CURRICULUM

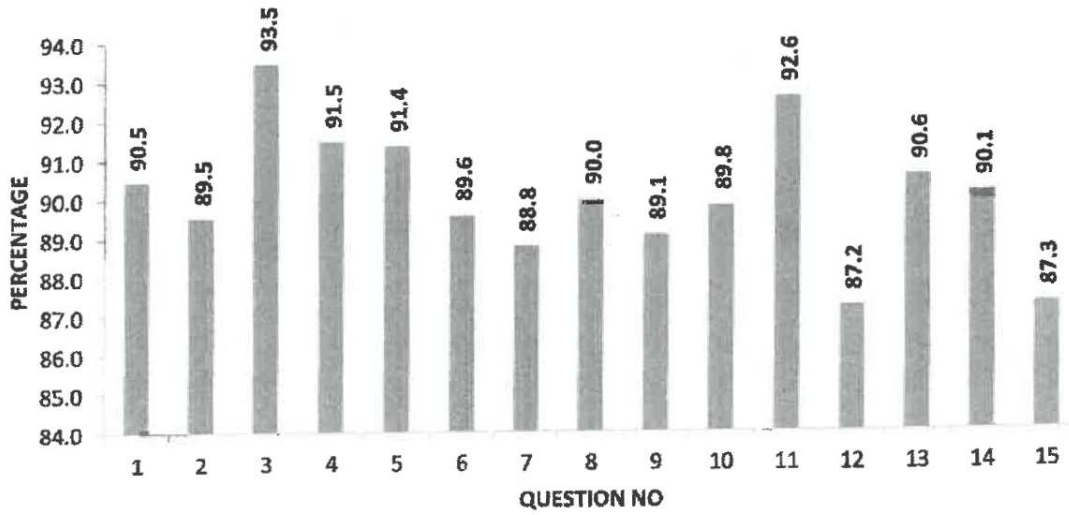
S.No.	QUESTIONS	PERCENTAGE
1.	Rate the composition of the courses based on Basic Science, Engineering Science, Humanities and Social Sciences, Professional Core, Professional Elective, Open Elective, Employment Enhancement Courses and Project Work etc.,	90.5
2.	Rate the electives offered in the curriculum in relevance to technological advancements.	89.5
3.	Rate the availability of course content with respect to industry readiness.	93.5
4.	Rate the content of courses offered in the curriculum to motivate the students to pursue for their higher studies, carrier orientation and research work.	91.5
5.	Rate the usefulness curriculum for lifelong learning.	91.4

B.PARENT FEEDBACK ON AMBIENCE(INFRA STRUCTURE)

6.	Rate the availability of well-furnished class rooms, ICT facilities used for teaching & learning process.	89.6
7.	Rate the availability of text & reference books and journals in the central library.	88.8
8.	Rate the initiatives followed by the institution to provide safe & secure, clean campus environment for active learning.	90.0
9.	Rate the initiatives followed by the institution to allow the students to participate in intra /inter/state / national /international level competitions.	89.1
10.	Rate the quality, quantity and price of food served to the students in the canteen.	89.8
11.	Rate the transport facility provided by the Institution.	92.6
12.	Rate the facility available for waste disposal in the college campus.	87.2
13.	Rate the facility available for disabled friendly environment in the college campus.	90.6
14.	Rate the availability of renewable energy sources in the college campus.	90.1
15.	Rate the student welfare measures offered by the Institution.	87.3



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Parents Feedback on Academic Performance and Ambience Academic Year 2022-2023




IQAC Coordinator


Principal


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ALUMNI FEEDBACK ANALYSIS ON Academic Performance and Ambience ACADEMIC YEAR 2022-23

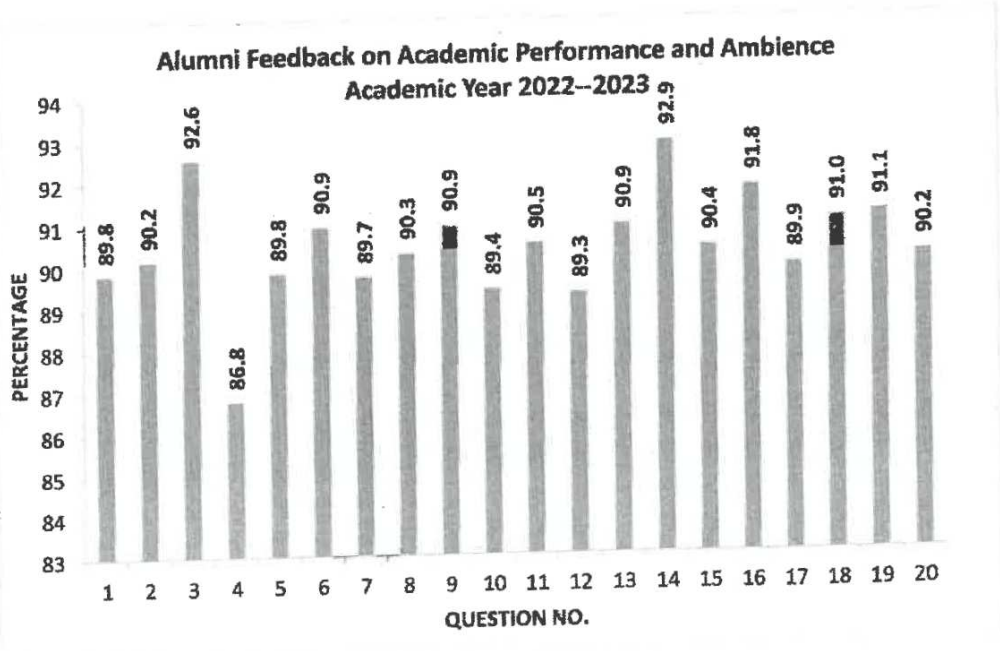
A. ALUMNI FEEDBACK ON CURRICULUM

S.No.	QUESTIONS	PERCENTAGE
1.	Rate the composition of the courses based on Basic Science, Engineering Science, Humanities and Social Sciences, Professional Core, Professional Elective, Open Elective, Employment Enhancement Courses and Project Work etc.,	89.8
2.	Rate the appropriateness of sequence of the courses provided in the Curriculum.	90.2
3.	Rate the appropriateness of sequence of the units of the courses provided in the Curriculum.	92.6
4.	Rate the adequate number of text books and reference books mentioned for the courses.	86.8
5.	Rate the implementation of CBCS in the Curriculum.	90.9
6.	Rate the content of courses offered in the curriculum to motivate the students to pursue for their higher studies, carrier orientation and research work.	89.7
7.	Rate the electives offered in the curriculum in relevance to technological advancements.	90.3
8.	Rate the availability of course content with respect to industry readiness.	90.9
9.	Rate the number of experiments available in the laboratory courses with respect to real time problems.	89.4
10.	Rate balance between theory and the laboratory courses available in the Curriculum.	90.5

B. ALUMNI FEEDBACK ON AMBIENCE (INFRA STRUCTURE)

11.	Rate the availability of well-furnished class rooms, ICT facilities used for teaching & learning process.	89.3
12.	Rate the availability of text & reference books and journals in the central library.	90.9
13.	Rate the initiatives followed by the institution to provide safe & secure, clean campus environment for active learning.	92.9
14.	Rate the initiatives followed by the institution to allow the students to participate in intra /inter/state / national /international level competitions.	90.4
15.	Rate the quality, quantity and price of food served to the students in the canteen.	91.8
16.	Rate the transport facility provided by the Institution.	89.9
17.	Rate the facility available for waste disposal in the college campus.	91.0
18.	Rate the facility available for disabled friendly environment in the college campus.	91.1
19.	Rate the availability of renewable energy sources in the college campus.	91.1
20.	Rate the best practices implemented by the Institution.	90.2


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 IQAC Coordinator


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EMPLOYER FEEDBACK ANALYSIS ON Academic Performance and Ambience ACADEMIC YEAR 2022-23

A.EMPLOYER FEEDBACK ON CURRICULUM

S.No.	QUESTIONS	PERCENTAGE
1.	Rate the availability of Curriculum that suitable for recruitment of students.	95
2.	Rate the availability of course content with respect to industry readiness.	90
3.	Rate the electives offered in the curriculum in relevance to technological advancements.	96.7
4.	Rate the availability of curriculum to bridge the gap between the industry and institute.	88.3
5.	How do you rate the overall content of the curriculum?	91.7

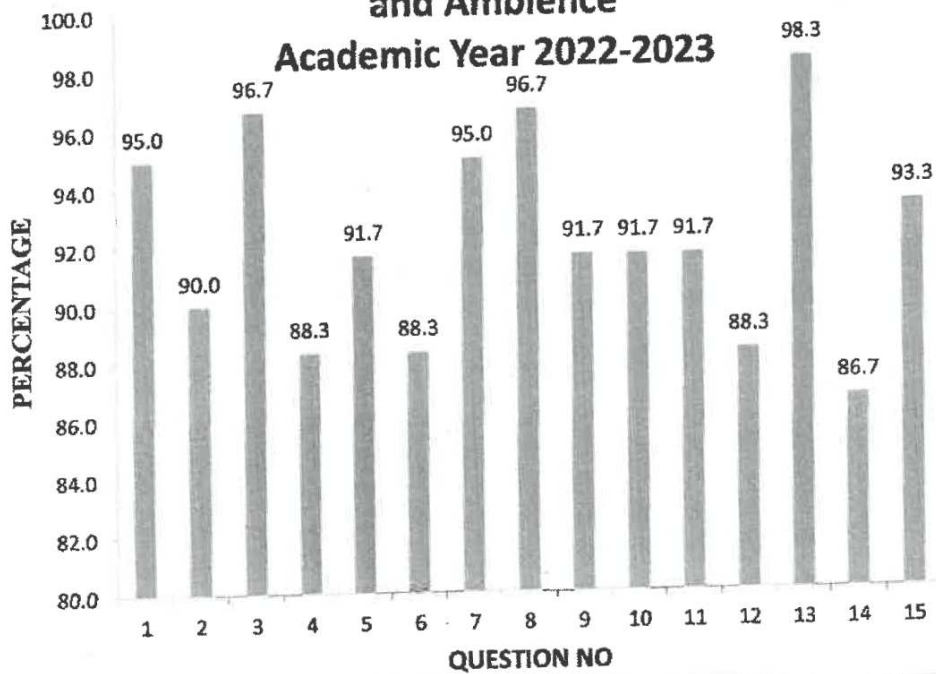
B.EMPLOYER FEEDBACK ON AMBIENCE (INFRA STRUCTURE)

6.	Rate the availability of well-furnished class rooms, ICT facilities used for pre placement training.	88.3
7.	Rate the availability of aptitude/competitive examination books in the central library.	95
8.	Rate the initiatives followed by the institution to provide safe & secure, clean campus environment for recruitment drive.	96.7
9.	Rate the functioning of Training & Placement cell of the Institution.	91.7
10.	Rate the capacity building programmes offered by the Institution to enhance employability skills of the students.	91.7
11.	Rate the learning experience offered in terms of problem solving/experiential learning to the students of the Institutions.	91.7
12.	Rate the facility available for waste disposal in the college campus.	88.3
13.	Rate the facility available for disabled friendly environment in the college campus.	98.3
14.	Rate the availability of renewable energy sources in the college campus.	86.7
15.	Rate the initiatives taken by the Institution for water conservation.	93.3


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Employer Feedback on Academic Performance and Ambience

Academic Year 2022-2023




IQAC Coordinator


Principal


Dr. G. Balakrishnan, M.E., Ph.D.,
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Date: 09.06.2023

STAKEHOLDER FEEDBACK ON ACADEMIC PERFORMANCE & AMBIENCE ACTION TAKEN REPORT -2022-2023

In order to improve the quality initiative, our Institution IQAC collected the feedback about R-2021 curriculum and the syllabus followed in our Institution from the various stake holders (Students, Faculty members, Alumni, Employer, and Parents) offered by Anna University Chennai.

As a result, the collected feedback about the curriculum and syllabus were analyzed and based on the suggestion/representation received from the stakeholder in every department for bridging the curricular gap the following topics were suggested to include in existing Anna University R-2021 Curriculum and Syllabus with recent trends for the benefit of the students community.

Sl.No	Name of the Degree	Course Code	Course Title	Topic to be Included	Unit No
1.	B.Tech- Agricultural Engineering	AI3201	Principles & Practices of Crop Production	Vertical farming	5
2.	B.E-Computer Science and Engineering	CCS332	APP DEVELOPMENT	Routing	3
3.	B.E-Mechanical Engineering	GE3271	Mechanical Electrical and Plumbing Methods	Plumbing Work	1
		ME 3391	Heat Ventilation And Air conditioning	Second Law of Thermodynamics	2
4.	B.E-Electrical and Electronics Engineering	EE3251	Electric Circuit Analysis	Behavior of magnetically coupled circuits	2

In this regard we kindly request you to discuss the above recommendations in the forthcoming Board of Studies(BoS) meeting and do the needful for the betterment of students Community.


PRINCIPAL


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Principal

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In this regard we sent a letter to Anna University and Requested to discuss the above recommendations in the forthcoming Board of Studies (BoS) meeting for the betterment of students' community.

In addition to that, the following Value added courses were offered by all Departments of IGCE in the academic year 2022-2023 to enhance the curricular content with recent trend for the benefit of the student community with the approval from various Departments.

List of Value added courses conducted to bridge the curricular gap:

Sl.No	Value Course Name	Department
1.	Vertical Farming	Agricultural Engineering
2.	Angular JS	Computer Science and Engineering
3.	Mechanical Electrical and Plumbing Methods Heat Ventilation and Air conditioning	Mechanical Engineering
4.	Electrical Machine Design, Winding, Assembling, & Dismantling	Electrical & Electronics Engineering


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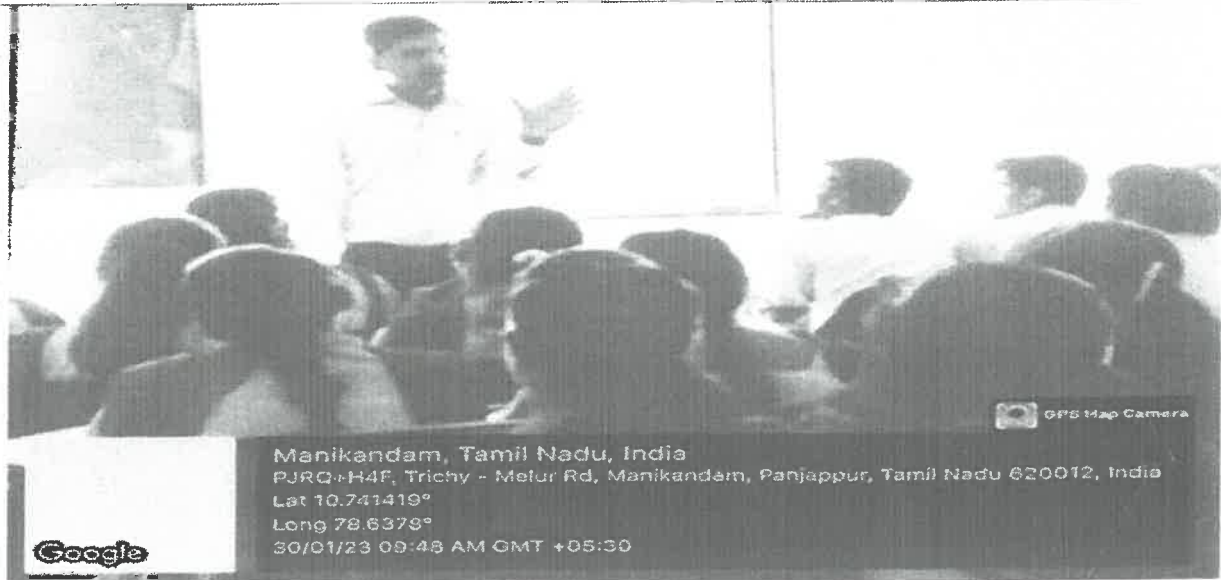
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SAMPLE PHOTOS OF VALUE ADDED COURSE

Title:	"Power Grid Protection"				
Resource Persons:	Mr.M.Elangovan, Trainer. Startus Electric , Trichy.				
Date of conduct from :	30.01.2023	To:	03.02.2023	Duration:	30 Hours
Organized Department :	Electrical and Electronics Engineering				
Participant Year:	2,3,4		No. of Students Registered :	32	
Venue:	EEE III yr Classroom				

SAMPLE PHOTOS




VAC Coordinator


HoD/EEE


Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr. SANDURU K, III Year, EEE has successfully completed the Value Added Course on “Power Grid Protection” organized by Department of Electrical & Electronics Engineering and IQAC of our Institution in Association with Startus Electric from 30th January 2023 to 3rd January 2023 (5days) during the Academic year 2022-2023.

Startus Electric

Mr.L.Ramesh

Chief Executive Officer.

Dr. G. Balakrishnan, M.E., Ph.D.,
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Principal

IGCE



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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

Report on Value Added Course

Title:	Angular JS				
Resource Person:	Mr.C.Vivek Project Manager, Axis V Creatives Pvt Ltd,Chennai	Mr.B.Rahavan Team leader Axis V Creatives Pvt Ltd,Chennai			
Date of conduct from :	19.12.2022	To:	24.12.2022	Duration:	36 Hours
Organized Department :	COMPUTER SCIENCE AND ENGINEERING				
Participant Year:	B.E-II,III & IV- Year /CSE I,II ME,B.Tech-II AI&DS	No. of Students Registered :	100		
Venue:	SD LAB,NETWORKLAB				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ul style="list-style-type: none">• Know the fundamentals of Angular JS and its architecture .• Discuss Module, controllers, Events• Apply inbuilt and custom pipes• Develop object-oriented Ruby programs using classes and objects• Design forms and Modules in React JS• Explain Services, Animations, Routing .					
Assessment Process					
<ul style="list-style-type: none">• Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted• Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)					
 VAC Coordinator		 HoD/CSE		 Principal	

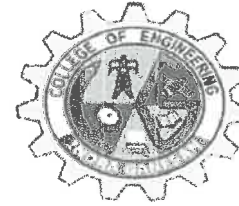
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Saranya P**

..... **IV YEAR CSE** has successfully completed the Value Added Course on
“Angular JS” organized by Department of Computer Science and Engineering and IQAC of our
Institution in Association with **AXIS V Creatives Pvt, Ltd** from 19th December 2022 to December
2022 (6days) during the Academic year 2022-2023.

Mr. C. Vivek,
Project Manager,
AXIS V Creatives Pvt, Ltd

PRINCIPAL



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Report on Value Added Course

Title:	Heat ventilation Air conditioning Technology				
Resource Person:	Mr. Deepak Executive UNIQ-MEP Trichy.	Mr. Dhineshwaran G Executive UNIQ-MEP Trichy.			
Date of conduct from :	22.05.2023	To:	27.05.2023	Duration:	30 Hours
Organized Department :	MECHANICAL ENGINEERING				
Participant Year:	2,3, 4	No. of Students Registered :	48		
Venue:	Mechanical Seminar Hall Third Floor Mechanical Department IGCE				

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Knowledge about HVAC system
- Application of HVAC clearly students known
- Various gases usage in HVAC system Explained.
- Load circuits and pipeline circuits are explained clearly


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Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HOD/MECH


Principal



UM UNIQUE
MEP

CERTIFICATE OF PARTICIPATION

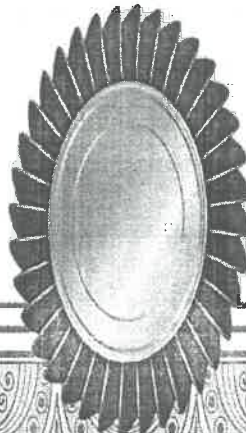
This is to certify that Mr. Ruban A, IV Year, MECH has successfully completed the value added course on "Heat ventilation Air conditioning Technology" organized by Department of Mechanical Engineering and IQAC of our institution in association with UNIQUE MEP from 22.05.2023 to 27.05.2023 (5 days) during the Academic Year 2022-2023

Dr. G. Balakrishnan, M.E., Ph.D.
Principal




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Mr. K. Deepak
UNIQUE MEP

PRINCIPAL
IGCE



Report on Value Added Course

Title:	Mechanical Electrical and Plumbing Methods				
Resource Person:	Mr. Abhu Co-ordinator UNIQ-MEP Trichy		Mr. David Ubahasamy Executive, UNIQ-MEP, Trichy		
Date of conduct from :	05.12.2022	To:	09.12.2022	Duration:	30 Hours
Organized Department :	MECHANICAL ENGINEERING				
Participant Year:	2,3, 4		No. of Students Registered :	45	
Venue:	Mechanical Seminar Hall				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ul style="list-style-type: none">• Know real-world examples of on-the-job safety and health issues• Know how to protect themselves and others from accidental deaths and injuries.• Broad understanding of how hazards in the workplace can be controlled.• Students are expected to learn and practice the skills they will need in the workplace.• They receive required training on equipment they will use, and work processes they will perform• Develop a foundational understanding of safety systems.					
Assessment Process					
<ul style="list-style-type: none">• Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted• Total Score = (0.5 * Attendance in VAC out of 100 percentage + 0.5 * Test mark in VAC out of 100 marks)					
<p>Dr. G. Balakrishnan, M.E., Ph.D., Principal</p> <p>Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.</p>					
 VAC Coordinator		 HOD MECH		 Principal	




CERTIFICATE OF PARTICIPATION

UNI UNIQUE
MEP

This is to certify that Mr. Hariharan, III Year, MECH has successfully completed the value added course on "Mechanical, Electrical and plumbing Method" organized by department of Mechanical Engineering and IQAC of our institution in association with UNIQUE MEP from 05.12.2022 to 09.12.2022 (5 days) during the Academic Year 2022-2023


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.





Mr. K. Deepak
UNIQUE MEP



PRINCIPAL
IGCE





REPORT ON VALUE ADDED COURSE					
Title:	VERTICAL FARMING				
Resource Person:	Mr.R.Sankar,N.Ramachandran, Sri Enterprise Agro Industries Corporation ,Trichy				
Date of conduct from :	01.08.2022	To:	05.08.2022	Duration:	30 Hours
Organized Department :	Agricultural Engineering				
Participant Year:	2, 3	No. of Students Registered :	1724		
Venue:	Agri Seminar Hall				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ul style="list-style-type: none">• Know real-world importance of software in Agricultural engineering students• Know how to perform in Agriin industries.• Study about vertical farmingof Agricultural.• Students are expected to learn and practice the skills they will need in the workplace.• Develop a foundational understanding Agricultural engineering.					
Assessment Process					
<ul style="list-style-type: none">• Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted• Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)					
<div style="display: flex; justify-content: space-around;"><div style="text-align: center;"> VAC Coordinator</div><div style="text-align: center;"> HoD/AGRI</div><div style="text-align: center;"> PRINCIPAL</div></div>					

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

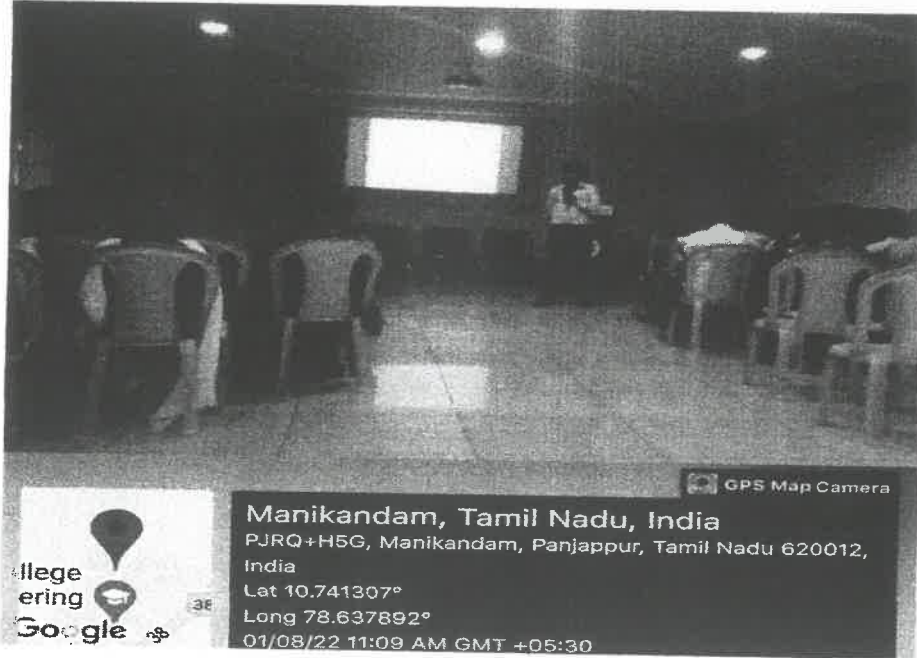


Indra Ganesan
COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, 2(F) Status Institution by UGC



REPORT ON VALUE ADDED COURSE

SAMPLE PHOTO:



S. Princy
VAC Coordinator

V. Sivaraj
HoD/AGRI

K. S. Prasad
PRINCIPAL

(Signature)
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

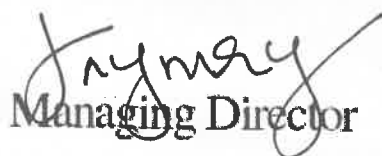
COLLEGE OF ENGINEERING

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CERTIFICATE OF PARTICIPATION

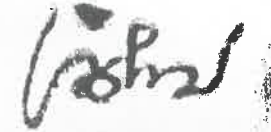
This is to certify that Ms.ABINAYA.R of II Year B.TECH- AGRI Indra Ganesan College of Engineering has successfully completed the Value Added course "VERTICAL FARMING" organised By Department Of Agricultural Engineering in association with Sri Enterprise Agro Industries Corporation conducted from 07.03.2021 to 11.03.2021.(5days) during Academic year 2022-2023.


Managing Director

Sri Enterprise Agro Industries Corporation



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
JG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Principal
Indra Ganesan Engineering college