



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.

2019-2020

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
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

STUDENT FEEDBACK ANALYSIS ON Academic Performance and Ambience

ACADEMIC YEAR 2019-20

A. STUDENT FEEDBACK ON CURRICULUM

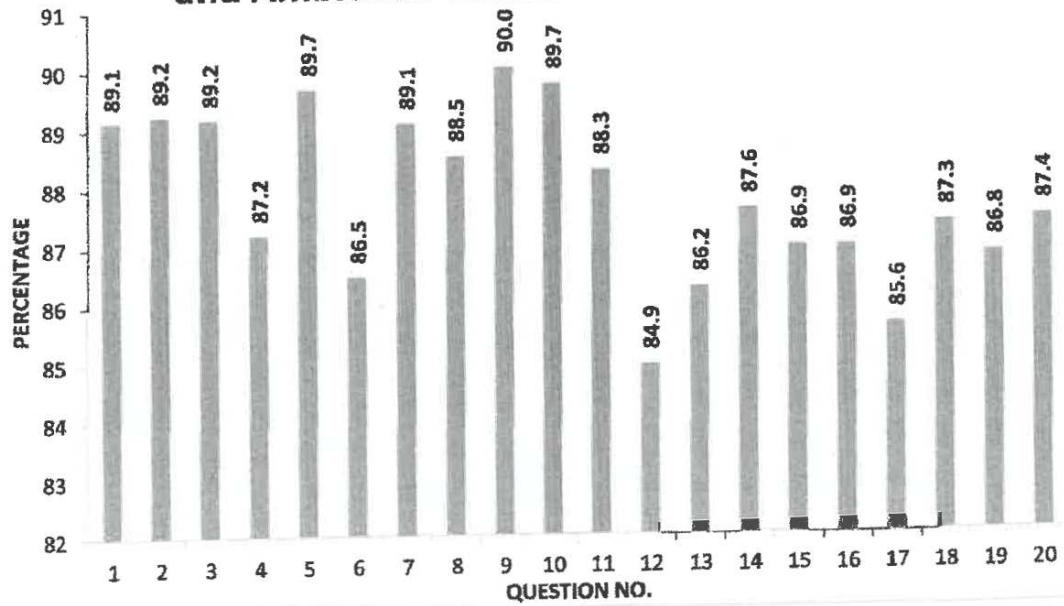
S.No.	QUESTIONS	PERCENTAGE
1.	Rate the composition of the courses based on Basic Science, Engineering Science, Humanities and Social Sciences, Professional Core, Professional Elective, Open Elective, Employment Enhancement Courses and Project Work etc.,	89.1
2.	Rate the appropriateness of sequence of the courses provided in the Curriculum.	89.2
3.	Rate the appropriateness of sequence of the units of the courses provided in the Curriculum.	89
4.	Rate the adequate number of text books and reference books mentioned for the courses.	87.2
5.	Rate the implementation of CBCS in the Curriculum.	89.7
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.	86.5
7.	Rate the electives offered in the curriculum in relevance to technological advancements.	89.1
8.	Rate the availability of course content with respect to industry readiness.	88.5
9.	Rate the number of experiments available in the laboratory courses with respect to real time problems.	90
10.	Rate balance between theory and the laboratory courses available in the Curriculum.	89.7

B. STUDENT FEEDBACK ON AMBIENCE (INFRA STRUCTURE)

11.	Rate the availability of well-furnished class rooms, ICT facilities used for teaching & learning process.	88.3
12.	Rate the availability of text & reference books and journals in the central library.	84.9
13.	Rate the initiatives followed by the institution to provide safe & secure, clean campus environment for active learning.	86.2
14.	Rate the initiatives followed by the institution to allow the students to participate in intra /inter/state / national /international level competitions.	87.6
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.	86.9
17.	Rate the facility available for waste disposal in the college campus.	85.6
18.	Rate the facility available for disabled friendly environment in the college campus.	87.3
19.	Rate the availability of renewable energy sources in the college campus.	86.8
20.	Rate the best practices implemented by the Institution.	87.4


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Student Feedback on Academic Performance and Ambience Academic Year 2019-2020



Rajathi
IQAC Coordinator

[Signature]
Principal

[Signature]
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal, M.E., Ph.D.,
Indra Ganesan College of Engineering
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Mankaladam, Trichy-620 012



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FACULTY FEEDBACK ANALYSIS ON Academic Performance and Ambience

ACADEMIC YEAR 2019-20

A.FACULTY FEEDBACK ON CURRICULUM

S.No.	QUESTIONS	PERCENTAGE
1.	Rate the clarity in definition of course objectives and outcomes in the syllabus.	89.3
2.	Rate the allocations of hours prescribed in the syllabus with respect to the course content.	90.7
3.	Rate the number of text and reference books mentioned in the syllabus.	91.4
4.	Rate the coverage of units as per the prescribed text books and reference books.	88.1
5.	Rate the content of recent technologies mentioned in the syllabus.	89.8
6.	Rate the clarity of mapping the COs with POs and PSOs in the syllabus.	89.8
7.	Rate the availability of curriculum to bridge the gap between the industry and institute.	90.0
8.	Rate the course content that supports to enrich the faculty knowledge for continuous teaching and learning process.	90.5
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.,	91.4
10.	Rate the electives offered in the curriculum in relevance to technological advancements.	88.3

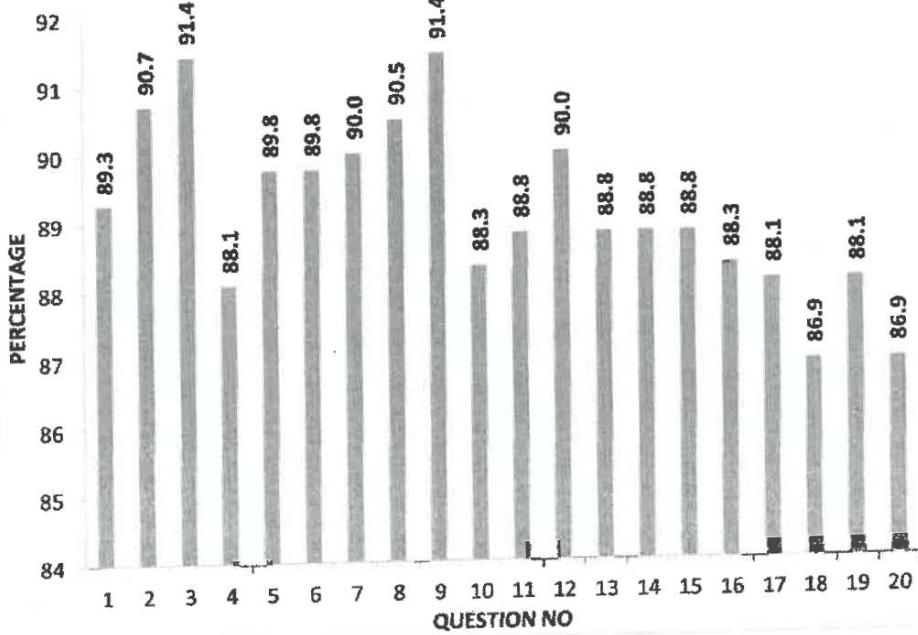
B.FACULTY FEEDBACK ON AMBIENCE(INFRA STRUCTURE)

11.	Rate the availability of ERP software, ICT facilities used for teaching and learning process.	88.8
12.	Rate the availability of text & reference books and journals in the library.	88.8
13.	Rate the initiatives followed by the institution to provide safe & secure, clean campus environment for active learning.	88.8
14.	Rate the faculty performance appraisal system implemented by the Institution.	88.3
15.	Rate the quality, quantity and price of food offered in the canteen.	88.1
16.	Rate the transport facility provided by the Institution.	86.9
17.	Rate the facility available for waste disposal in the college campus.	88.1
18.	Rate the facility available for disabled friendly environment in the college campus.	86.9
19.	Rate the availability of renewable energy sources in the college campus.	88.1
20.	Rate the welfare measures implemented by the Institution for staff.	86.9

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**Faculty Feedback on Academic Performance and Ambience Academic
Year 2019-2020**



Neelgathi
IQAC Coordinator

[Signature]
Principal

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D. G. Balakrishnan, M.E., Ph.D.,
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PARENTS FEEDBACK ANALYSIS ON Academic Performance and Ambience

ACADEMIC YEAR 2019-20

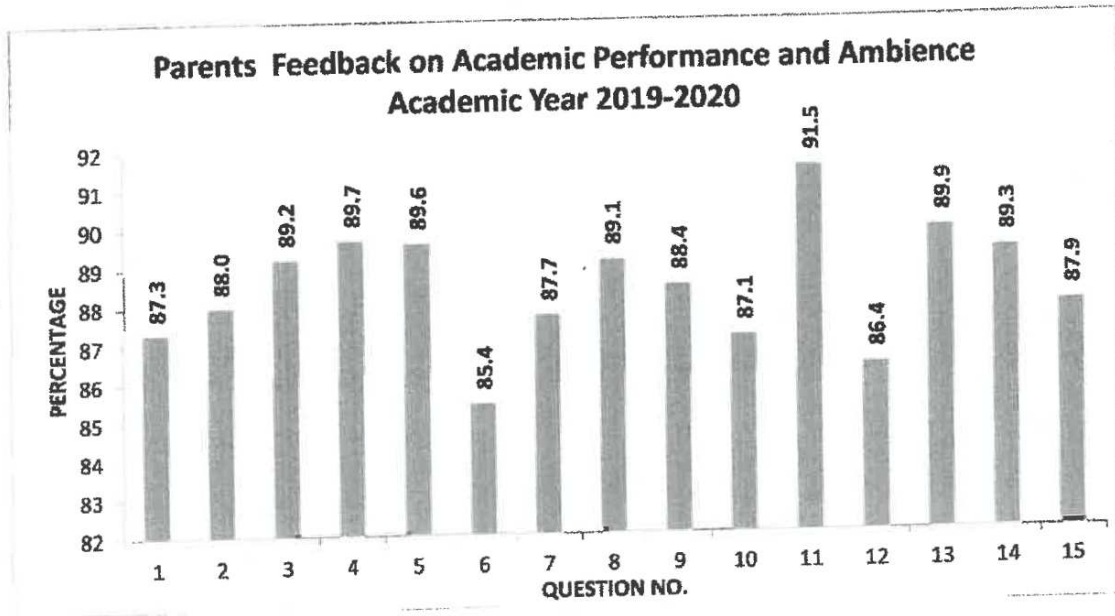
A. PARENT FEEDBACK ON CURRICULUM

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.,	87.3
2.	Rate the electives offered in the curriculum in relevance to technological advancements.	88
3.	Rate the availability of course content with respect to industry readiness.	89.2
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.	89.7
5.	Rate the usefulness curriculum for lifelong learning.	89.6

B. PARENT FEEDBACK ON AMBIENCE (INFRA STRUCTURE)

6.	Rate the availability of well-furnished class rooms, ICT facilities used for teaching & learning process.	85.4
7.	Rate the availability of text & reference books and journals in the central library.	87.7
8.	Rate the initiatives followed by the institution to provide safe & secure, clean campus environment for active learning.	89.1
9.	Rate the initiatives followed by the institution to allow the students to participate in intra /inter/state / national /international level competitions.	88.4
10.	Rate the quality, quantity and price of food served to the students in the canteen.	87.1
11.	Rate the transport facility provided by the Institution.	91.5
12.	Rate the facility available for waste disposal in the college campus.	86.4
13.	Rate the facility available for disabled friendly environment in the college campus.	89.9
14.	Rate the availability of renewable energy sources in the college campus.	89.3
15.	Rate the student welfare measures offered by the Institution.	87.9


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ALUMNI FEEDBACK ANALYSIS ON Academic Performance and Ambience

ACADEMIC YEAR 2019-20

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.,	89.0
2.	Rate the appropriateness of sequence of the courses provided in the Curriculum.	92.5
3.	Rate the appropriateness of sequence of the units of the courses provided in the Curriculum.	91.2
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.	90.5
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.	90.2
7.	Rate the electives offered in the curriculum in relevance to technological advancements.	89.9
8.	Rate the availability of course content with respect to industry readiness.	89.0
9.	Rate the number of experiments available in the laboratory courses with respect to real time problems.	90.3
10.	Rate balance between theory and the laboratory courses available in the Curriculum.	89.2

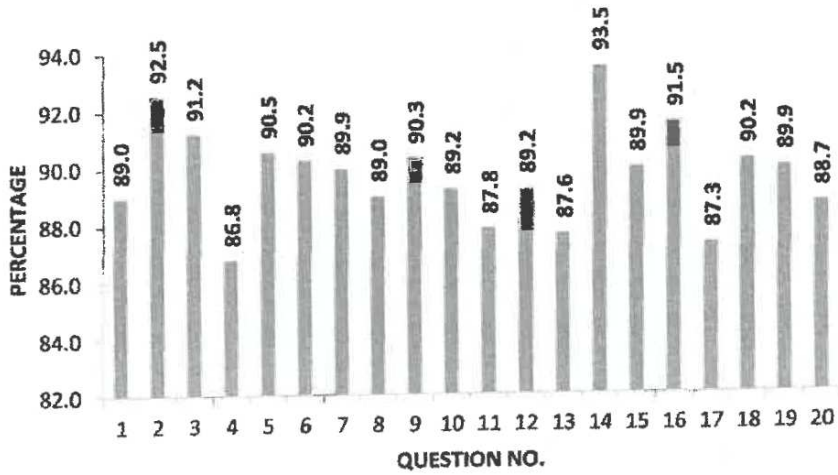
B. ALUMNI FEEDBACK ON AMBIENCE (INFRA STRUCTURE)

11.	Rate the availability of well-furnished class rooms, ICT facilities used for teaching & learning process.	87.8
12.	Rate the availability of text & reference books and journals in the central library.	89.2
13.	Rate the initiatives followed by the institution to provide safe & secure, clean campus environment for active learning.	87.6
14.	Rate the initiatives followed by the institution to allow the students to participate in intra /inter/state / national /international level competitions.	93.5
15.	Rate the quality, quantity and price of food served to the students in the canteen.	89.9
16.	Rate the transport facility provided by the Institution.	91.5
17.	Rate the facility available for waste disposal in the college campus.	87.3
18.	Rate the facility available for disabled friendly environment in the college campus.	93.2
19.	Rate the availability of renewable energy sources in the college campus.	89.9
20.	Rate the best practices implemented by the Institution.	88.7

Dr. G. Balakrishnan, M.E., Ph.D.,
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**Alumni Feedback on Academic Performance and
Ambience Academic Year 2019-2020**




IQAC Coordinator


Principal


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EMPLOYER FEEDBACK ANALYSIS ON Academic Performance and Ambience

ACADEMIC YEAR 2019-20

A.EMPLOYER FEEDBACK ON CURRICULUM

S.No.	QUESTIONS	PERCENTAGE
1.	Rate the availability of Curriculum that suitable for recruitment of students.	90
2.	Rate the availability of course content with respect to industry readiness.	80
3.	Rate the electives offered in the curriculum in relevance to technological advancements.	86.7
4.	Rate the availability of curriculum to bridge the gap between the industry and institute.	84
5.	How do you rate the overall content of the curriculum?	82.7

B.EMPLOYER FEEDBACK ON AMBIENCE (INFRA STRUCTURE)

6.	Rate the availability of well-furnished class rooms, ICT facilities used for pre placement training.	85.3
7.	Rate the availability of aptitude/competitive examination books in the central library.	88
8.	Rate the initiatives followed by the institution to provide safe & secure, clean campus environment for recruitment drive.	88
9.	Rate the functioning of Training & Placement cell of the Institution.	84
10.	Rate the capacity building programmes offered by the Institution to enhance employability skills of the students.	80
11.	Rate the learning experience offered in terms of problem solving/experiential learning to the students of the Institutions.	84
12.	Rate the facility available for waste disposal in the college campus.	85.3
13.	Rate the facility available for disabled friendly environment in the college campus.	82.7
14.	Rate the availability of renewable energy sources in the college campus.	84
15.	Rate the initiatives taken by the Institution for water conservation.	82.7

Page 1 of 2

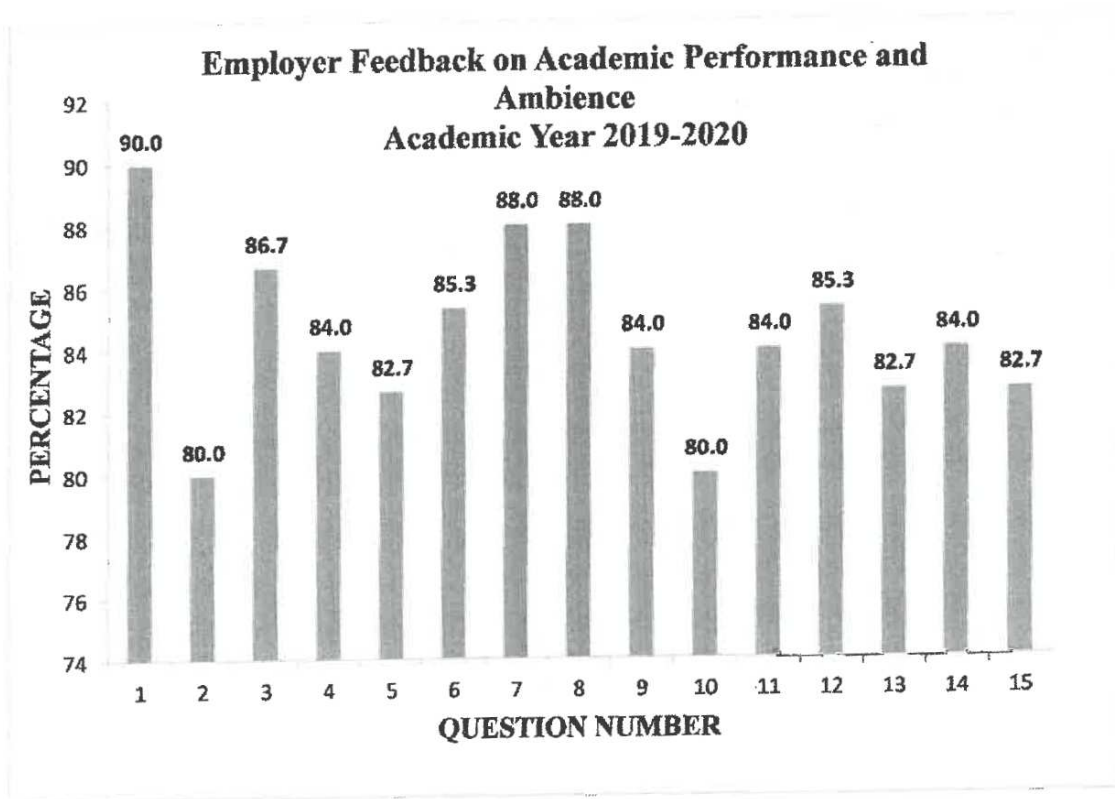
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IQAC Coordinator

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Principal

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Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
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Date: 20.02.2020

STAKEHOLDER FEEDBACK ON ACADEMIC PERFORMANCE & AMBIENCE ACTION TAKEN REPORT -2019-2020

In order to improve the quality initiative, our Institution IQAC collected the feedback about R-2017 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-2017 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	CE8391	Construction Materials	Safety in Construction	5
2.	B.E-Computer Science and Engineering	CS8651	Internet Programming	Connecting to a database	4
3.	B.E-Mechanical Engineering	ME8381	Evaluation of CREO	3D Geometric Modeling	3
		ME8594	External Aero dynamics simulations	Balancing	2
4.	B.E-Electrical and Electronics Engineering	EE8691	Embedded Systems	Various Embedded Development Strategies	1

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.


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

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 2019-2020 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.	Safety in Construction	Civil Engineering
2.	PHP	Computer Science and Engineering
3.	Evaluation of CREO External Aero dynamics simulations	Mechanical Engineering
4.	Electrochemical Energy Storage	Electrical & Electronics Engineering


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Report on Value Added Course

Title:	PHP				
Resource Person:	Mr. C.Arunbalaji JD Software Pvt Ltd Vandalur	Mr.R.Sathish Kumar JD Software Pvt Ltd Vandalur			
Date of conduct from :	16.12.2019	To:	21.12.2019	Duration:	36 Hours
Organized Department :	COMPUTER SCIENCE AND ENGINEERING				
Participant Year:	CSE IV,III ,II and M.E-II Year		No. of Students Registered :	99	
Venue:	SD LAB and NETWORK LAB II FLOOR				

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

- Know the fundamentals of PHP and its architecture.
- Built 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

- 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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JD Soft
... beyond IT

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **DEEPIKA N** of
..... **III YEAR CSE** has successfully completed the Value Added Course on **PHP**
organized by Department of Computer Science and Engineering and IQAC of our Institution in
Association with JD Software Pvt Ltd from 19th Dec 2019 TO 23rd Dec 2019 during the Academic
Year 2019-2020.

Project Manager
JD Software Pvt Ltd

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

Principal
IGCE



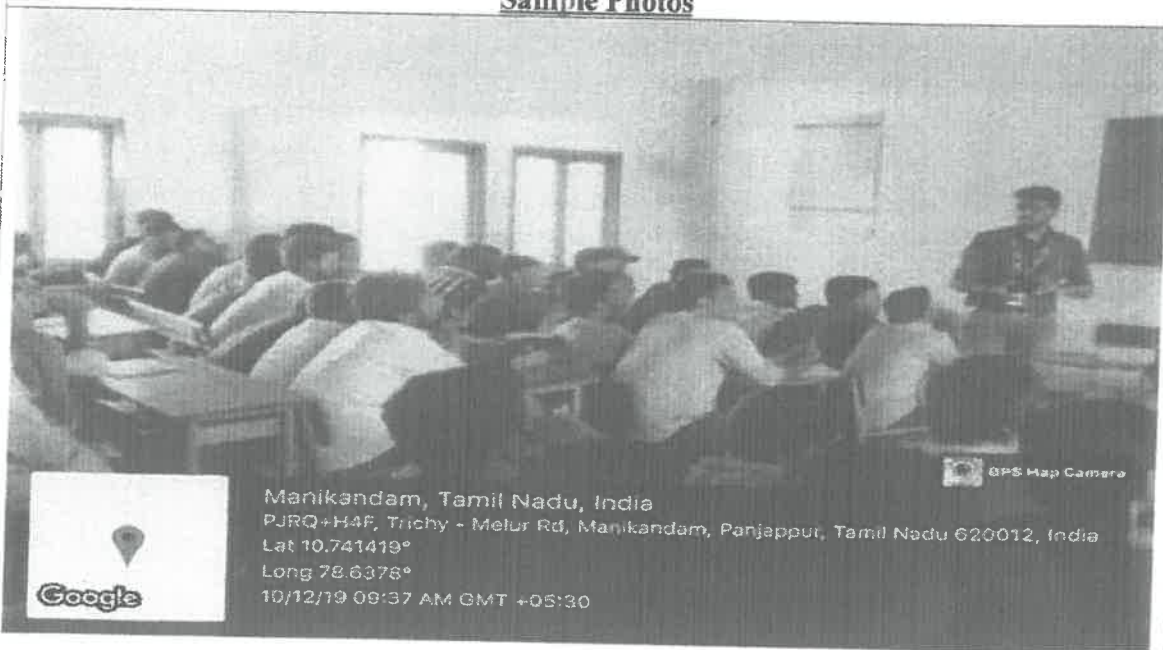
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Sample Photos of Value Added Course

Title:	"Automation and Robotics"				
Resource Person:	Dr.M.Abbas, Design Engineer, Sri Sai Software				
Date of conduct from :	09.12.2019	To:	13.12.2019	Duration:	30 Hours
Organized Department :	Electrical and Electronics Engineering				
Participant Year:	2,3,4	No. of Students Registered :	63		
Venue:	EEE III yr Classroom				

Sample Photos



Manikandam, Tamil Nadu, India
PJRQ+H4F, Trichy - Melur Rd, Manikandam, Panjappur, Tamil Nadu 620012, India
Lat 10.741419°
Long 78.6378°
10/12/19 09:37 AM GMT +05:30


VAC Coordinator


HOD/EEE


Principal

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



CERTIFICATE OF PARTICIPATION

This is to certify that Mr. PAVENTHAN A, IV Year, EEE has successfully completed the Value Added Course on “Automation and Robotics” organized by Department of Electrical & Electronics Engineering and IQAC of our Institution in Association with Sri Sai Software from 9th December 2019 to 13th December 2019 (5days) during the Academic year 2019-2020.

Sri Sai Software
Mr.S.Ritik Singh
Chief Executive Officer.

Principal
IGCE

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

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Report on Value Added Course

Title:	External Aerodynamics Simulations		
Resource Person:	Mr. Suresh, Trainer. NIT Siemens, Trichy	Mr. Vijay Trainer NIT Siemens, Trichy	
Date of conduct from :	01.06.2020	To: 05.06.2020	Duration: 30 Hours
Organized Department :	MECHANICAL ENGINEERING		
Participant Year:	2,3	No. of Students Registered :	65
Venue:	Mechanical Seminar hall		

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

- Know to explain the design working in the automotive field.
- Know how to illustrated explanations of the physical principles involved
- Students are expected to learn and practice the Vehicle Aerodynamic applications.
- Know to recall Aerodynamic improvements to an existing design.
- They receive required training on Thermal Management, Aeroacoustics, Contamination, and Climate Comfort.


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 * Attendance in VAC out of 100 percentage + 0.5 * Test mark in VAC out of 100 marks)


VAC Coordinator


HoD/MECH


Principal


D. Lakshman, M.E., Ph.D.,
Principal
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IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.


NIT SIEMENS

Tanjore Main Road, NH67, near BHEL, Tiruchirappalli, Tamil Nadu 620015




CERTIFICATE OF PARTICIPATION

This is to certify that Mr.M.Venkatesh of IV Year MECH has successfully completed the value added course on "External Aerodynamics Simulations" organized by Department of Mechanical Engineering and IQAC of our institution in association with NIT SIEMENS from 11 June 2019 to 15 June 2019 (5 days) during the Academic year 2019-2020.


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

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Mr. Suresh
NIT SIEMENS



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Report on Value Added Course

Title:	Evaluation of CREO			
Resource Person:	Mr. Jayakumar & Mr. Prabahar, Trainer, CADD centre, Trichy			
Date of conduct from :	09.12.2019	To:	13.12.2019	Duration: 30 Hours
Organized Department :	MECHANICAL ENGINEERING			
Participant Year:	4	No. of Students Registered :	41	
Venue:	Mechanical Seminar hall			

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

- Know to explain the CREO Parametric Interface, Concepts.
- Know how to Creating and Modifying Sketches
- Learn and Demonstrate Datum, Patterns, basic commands
- Students are expected to learn the special tools like Creating Shells, Draft, Holes, Ribs.
- Know to recall Assembling with Constraints, Drafting in CREO.
- They receive required training on Animating Assemblies, Applying Mechanism to Assemblies, Creating Sheet Metal Work


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


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

**CADD[®]
CENTRE**

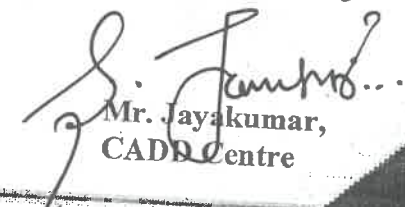
Premier Plaza, No-122, II Floor, 5&44, Bharathiar Salai, Cantonment, Tiruchirappalli, 620001

CERTIFICATE OF PARTICIPATION

This is to certify that Mr. Amar Praveen D of IV Year MECH has successfully completed the value added course on Evaluation of CREO organized by Department of Mechanical Engineering and IQAC of our institution in association with CADD centre from 11 June 2019 to 15 June 2019 (5 days) during the Academic year 2019-2020.


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

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


Mr. Jayakumar,
CADD Centre




Indra Ganesan

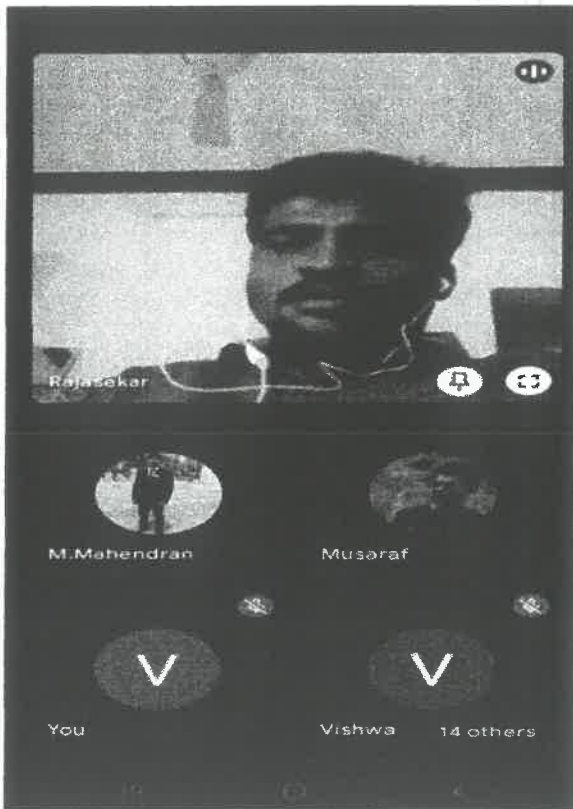
COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.

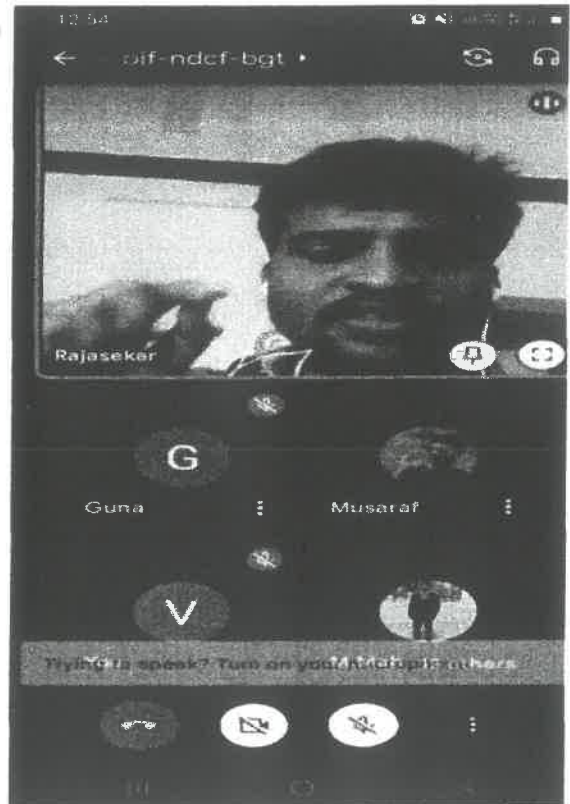
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

REPORT ON VALUE ADDED COURSE (SAMPLE PHOTOS)


Title:	“Safety in construction” 				
Resource Person:	Mr.K. Kumar, Assistant Engineer Kalam Construction, Trichy, Tamilnadu		Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.		
Date of conduct from:	20.07.20	To:	24.07.24	Duration:	30 Hours
Organized Department:	CIVIL ENGINEERING				
Participant Year:	2, 3, 4	Semester:	EVEN	No. of Students Registered:	44
Venue:	https://meet.google.com/mnd-tpqm-gb (Google meet link)				




VAC Coordinator




HoD/CIVIL


Principal



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE OF PARTICIPATION

The following awards are given to

This is to certify that **Ms. PREETA S** of **IV Year B.E- CIVIL** has successfully completed the Value Added Course on “Safety in Construction” organized by Department of Civil Engineering and IQAC of our Institution in Association with “KALAM CONSTRUCTION” from 20th July 2020 to 24th July 2020 (5Days) during the Academic year 2019-2020

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

Principal
Indra Ganesan College of Engineering

Director

Kalam Construction