

**PERFORMANCE APPRAISAL**  
**(TEACHING STAFF)**



# RAAK

## COLLEGE OF ENGINEERING AND TECHNOLOGY

[Approved by AICTE, New Delhi & Affiliated to Pondicherry University]  
An ISO 9001:2015 Certified Institution

### FAROUK EDUCATIONAL TRUST

Performance Based Appraisal System (PBAS) for Academic Year 2023-2024

#### GENERAL INFORMATION

1.	Name (in Block Letters)	
2.	Institute & Department	RAAK College of Engineering and Technology
3.	Date of Joining	
4.	Current Designation	
5.	Any Degree or fresh qualifications acquired during the year	
6.	Highest Professional Qualifications	
7.	Fields of Specialization in Subject / Discipline	

#### SUMMARY OF API SCORES Academic Year 2023-2024

Category	Criteria	APISCORE
I	Teaching, Learning & Evaluation related activities	
II	Co-curricular, Extension, Professional Development, etc.	
	<b>Total(Categories I+ II)</b>	
III	Research & Academic Contribution	
IV	Student Experience & Feedback	
	<b>TOTAL (I+II+III+IV)</b>	



*[Signature]*  
**Dr. S. SEENUVASAMURTHI, M.E., Ph.C.**  
**PRINCIPAL**

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### PART - A: ACADEMIC PERFORMANCE INDICATORS (Please see detailed instructions before filling out this proforma)

#### CATEGORY- I: TEACHING, LEARNING AND EVALUATION RELATED ACTIVITIES (Maximum Total Score: 150; Minimum Score required: 75)

1.0 Lectures (L), Seminars(S), Tutorials (T), Practical's (P), Contact Hours (C)  
(Give semester-wise details, where necessary) Max. Score: 50

Sr. No	Course code	Course Title	Credit Units	Level (UG/PG/Ph.D)	Mode of Teaching (Theory/practical / Tutorial)	No. of Sections Taught	Teaching load per section per week	Total Assigned Teaching Load for Semester	Actual Teaching hours per week	Percentage Completion	API
1											
2											
3											
4											

2.0 Teaching Load in excess of University norms (Max score: 10)

Sr. No	Course code	Course Title	Credit Units	Level (UG/PG/Ph.D)	Mode of Teaching (Theory/practical/Tutorial)	Number of extra teaching hours per week	Total for the Semester	API
1								

Note: (a) please refer the PBAS Instruction for score calculation (i.e : category I, Part II,)



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### 3.0 Result/Academic Performance (Max. score: 10)

S.no	Programme	Semester	Course Title	Total Students appeared	Total Students passed	Academic Performance	API	Average API
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								



  
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### 4.0 Adherence to Academic Processes & Schedules (Negative Marking)

Note :(a) Please refer the PBAS instruction for score calculation {(i.e. Cat-I, Part IV,)}


S.No.	Course	Mandatory Resources	Y/N	Director's Remarks Y/N	If No Number of Days Delay	API Score
1						
2						
3						
4						
5						
6						
		Total API Score				

### 5.0 Use of Participatory and innovative Teaching-Learning Methodologies, Updating of subject content, Course Improvement etc. (Max. Score: 50 points)

S. No.	Short Description	API Score
1		
2		
Total Score		

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-I, Part 5, Serial No5.1 & 5.2, Page-1)}



  
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### 6.0 Examination Duties Assigned and Performed (Maximum Score: 25)

S. No.	Type of Examination Duties	Duties Assigned	Extent to which Carried out (%)	API Score
1				
2				
3				
4				
5				
6				
7				
		TOTAL		

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-I, Part 6)}

Total Score Earned for Category-I (1+2+3+4+5+6) :	(50+8+20+25)
Total Max. Score for Category-I (1 to 6):	100
Minimum score required :	103



  
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## CATEGORY-II: CO-CURRICULAR, EXTENSION & PROFESSIONAL DEVELOPMENT

(Max. Total Score: 75; Min. Score required: 50)

1 Extension, Co-curricular & Field-based Activities (Maximum Score: 15)  
(Mentoring Activities, Club/ Committee activities)

1.1 **Positions held/Leadership role played in organization linked with Extension Work and National service Scheme (NSS), NCC, NSO or any other similar activity (each activity 5 points up to max. of 10 points)**

S No.	Type of Activity	Role	Average Hrs/ Week	API Score
1				
2				
3				
4				
<b>Total API Score</b>				

Activity	Score
Positions held	5 points
Leadership role played in organization linked with Extension Work and National service Scheme (NSS)	5 points
NCC, NSO or any other similar activity	5 points

1.2 **Contribution to campus publications for internal newsletter/blog/Magazine**

S No.	Type of Activity	Role	Average Hrs/ Week	API Score
1				
2				
<b>Total API Score</b>				

Activity	Score
Magazine/ Newsletter	10 points



  
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### 1.3 Community work such as values of National Integration, Yoga day Environment democracy, socialism, Human Rights, peace, scientific temper; flood or, drought

S No.	Type of Activity	Role	Average Hrs/ Week	API Score	Activity	Score
1	Planting the sapling	participant	1	2.5	Community Work Such As Values Of National Integration	2.5 points
2	Program conducted by Election Commission for New Voters	Participant	1	2.5	Yoga Day Environment Democracy	2.5 points
					Socialism	2.5 points
					Human Rights	2.5 points
					Peace	2.5 points
<b>Total API Score</b>				<b>5</b>		

### 2 Institution Building: Contribution to Corporate Life and Management of the Institution (Max. Score : 45)

#### 2.1 Collaborate with industry on projects and take accountability of delivery of as per the agreed timelines, budgets and deliverables (each project 5 points)

S. No.	Contribution to corporate life (Max points: 10)	Role	Unit (committee/ Lecture/Workshop)	API Score
1				
2				
<b>Total API Score</b>				

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-II, Serial No.2.1 to 2.4)}

#### 2.2 Seek feedback from industry on skill requirements / trends and ensure program alignment (Each formal forum 5 points)

Sr. No	Formal Forum	Skill Identified	Unit (committee/ Lecture/Workshop)	API Score
1				
<b>Total API Score</b>				

#### 2.3 Generate industry co-sponsorship in academic collaborations (e.g. projects, paces, research etc.) (Each collaboration 5 points)



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Sr. No	Projects/ spaces/ research etc.,	Role	No. Of collaboration	Max API Score
1				
<b>Total API Score</b>				

#### 2.4 Student Enrolment Support through Entrance test prep, Interviews, Workshops (20 points)

Sr. No	Type of Activity	No. of Projects	Max API Score
1			
<b>Total API Score</b>			

- i) Boot camps/ Seminar (2 points per activity)
- ii) Students evaluation (2 points per 50 students evaluated)
- iii) Open house (2 points per activity)

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-II, Serial No.2.5)}



  
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### 2.5 Student Placements (20 points)

Sr. No	Type of Activity	No. of Activity	Max API Score
1			
2			
3			
4			
Total API Score			

- Support resume writing/ portfolio development (2 points per 50 students)
- Workshops for interview prep (2 points per activity)
- Role of a Mentor (2 points per 10 students)
- Leverage on professional network and champion conversations with organizations (2 points per activity with a corporate)
- Assess post internship evaluations (vivas/ reports) (2 points per 50 students)
- Inviting corporates to Career fairs/ Job fairs (2 points per presence of a corporate)
- Organizing committee for Career fairs/ Job fairs (2 points per activity)


### 2.6 Alumni Engagement (10 points)

Sr. No	Type of Activity	No. of Activity	Max API Score
1			
2			
Total API Score			

**Note:** (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-II, Serial No.2.6-2.7)}

- Current student engagement through alumni (2 points per activity)
- Inviting alumni to be mentors (1 points per Alumnus invited)
- Alumni event (chapter wise) (2 points per activity)



  
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**3.3 Membership/participation in State/Central Bodies/Committees on Education, Research and National Development (5 points each: maximum 10 points)**

S.No.	Type of Activity	No. of Event	API Score
1			
2			
3			
4			
<b>Total API Score</b>			

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No.3.3)}

**3.4 Publication of articles in newspapers, magazines or other publications (not covered in category-III); radio talks; television programmes (1 point each, upto maximum 10 points)**

Type of Activity	No. of Activity	API Score
<b>Total API Score</b>		

(a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No.3.4)}

<b>Total Score Earned for Category-II (1+2+3) : (25+6)</b>	<b>31</b>
<b>Total Max. Score for Category-II (1+2+3) : 75</b>	<b>75</b>
<b>Minimum Score required: 50</b>	<b>50</b>

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**CATEGORY-III: RESEARCH, PUBLICATIONS & ACADEMIC CONTRIBUTIONS**

1.0 Research Papers published in Journals:

S. No.	Title with page number	Journal	ISSN/ ISBN No.	Whether peer reviewed. Impact factor, if any	No. of Co-authors	Whether you are the main author	API Score
1.							
2.							
3.							
4.							
	Total API Score						

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 1.1 )}  
(b) Supporting document for research paper to be enclosed as Annexure-Cat III (1.1)

1.2 Full papers in Conference Proceedings:

S. No.	Title with page number	Details of conference Publications	ISSN/ISBN No.	No. of Co-authors and Date of publication	Whether you are the main author	API Score
1						
	Total API Score					

Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 1.2)  
Supporting document for research paper to be enclosed as Annexure-Cat III (1.2)

  
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1.3 Articles/ Chapters published in Books

S. No.	Title with page number	Book Title, editor & publisher	ISSN/ ISBN No.	Whether peer reviewed.	No. of Co-authors and Date of Publication	Whether you are the main author	API Score
1							
2.							
Total API Score							

Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 1.3)}

1.3. Books published as Author or as Editor/Translator

S. N	Title with page no.	Type of Book & Authors hip	Publisher & ISSN/ ISBN No.	Whether Peer Reviewed	No. of Co-author & Date of Publication	Whether you are the main author	API Score
1							
Total API Score							

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 1.4)}

1.4 Chief Editor/Guest Editor/Editor/Associate Editor; Member, Consultant Member of Editorial/Advisory Board of Journal and Reviewer/Referee of a Journal

S. No.	Refereed Journal with/without ISBN/ISSN Numbers	Status	API score
1			
Total API Score			

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 1.5)}



*[Signature]*  
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### 2.0 Research Projects, Consultancies and Assignments Sponsored Projects (Carried out/Ongoing)

S. No.	Title	Agency	Period	Grant/ Amount Mobilized (Rs. Lakhs)	API Score
1					
Total API Score					

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 2.1 -2.3)}

### 2.0 -2.5 Consultancy Projects(Carried Out/Ongoing/Completed)

S. No	Title	Agency	Period	Grant/Amount Mobilized(Rs.Lakhs)	Whether Policy Documents /Patent outcome	API Score
1						
Total API Score						

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 2.2 to 2.3)}

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### 2.4 Filing & Award of Patents / Policy Document / Technology Transfer Process

S. No.	Type of Patent	Filed		Awarded		API Score
		Date	File No.	Date	Patent No.	
1						
2						
<b>Total API Score</b>						

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 2.4)}

### 2.5 Overseas Assignments

S. No.	Title/Description of Assignment	Agency	Period	Fund Amount (Rs. Lakhs)	Outcome	API Score
1						
<b>Total API Score</b>						

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 2.5)}

### 3.0 Research Guidance

S. No.	Degree	Number of Scholar Enrolled	Status	Degree Awarded	API Score
1					
2					
<b>Total API Score</b>					

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 3)}



  
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4.0 Organizing/Participating in training courses, teaching-learning-evaluation technology in faculty development programmes.

4.1&4.2 Training Courses, Teaching-Learning – Evaluation Technology, Faculty Development Programmes

S. No.	Programme	Duration	Organised by	API Score
1				
<b>Total APIScore</b>				

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 4.1 and 4.2)}

4.3 Papers presented in Conferences, Seminars, Workshops, Symposia/Session Chaired, etc.

S. No	Title of the paper presented	Title of Conference/ Seminar etc.	Date (s) of the event	Organized by	No. of Co-authors	Whether you presented the Paper	Whether International/ National/State/Regional/ University or College Level	API Score
1								
<b>Total API Score</b>								

Note: (a) If a paper presented in Conference/Seminar is published in the form of Proceedings (Full Paper), the points would accrue for the publication as Category III, (1.2) and not under this heading.


(b) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 4.3)}

4.3 Invited Lectures (including Extension) and Chairmanships at National or international Conference / Seminars; Office Bearer / Advisor of Registered Professional Bodies

S. No.	Title of Lecture/ Academic Session	Title of Conference/ Seminar etc.	Date(s) of the event	Organized by	Whether International/ National/State	API Score
1						
<b>Total API Score</b>						

(a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 4.4)}



  
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**4.4: Experience as Post-Doctoral Fellow / Research Associate / Visiting Professor**

S. No.	Research Associate / Post-Doctoral Fellow	Institution	Duration	Major Achievements	API Score
1					
Total API Score					

Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 4.5)}

Total Score Earned for Category-III	
-------------------------------------	--

**CATEGORY-IV: STUDENT EXPERIENCE & FEEDBACK**

**(Max.TotalScore:100;Min.Scorerequired:75)**

**1.1 Student Experience related Activities (Maximum Score: 50)  
 (Counselling, Orientation Activities, Interviews, Controlling Student attrition)**

S No.	Type of Activity	Activity/ Sem.	API Score
1.	Discipline committee	1	5
2.	Counseling committee	1	5
3.	AyudhaPooja	1	5
4.	Industrial Visit	1	5
5	Bridge Course	1	5
6	Total API Score		25

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-VI, Serial No.1.1 to 1.21)}

**1.2 Student Attrition (Maximum Score: 50)**

S No.	Student Attrition	API Score
1.	Zero- 50	
2.	Between 1%- 3%- 5	5
3.	Above 3%- Nil	

**2.0 Student Feedback (Maximum Score: 25) (Aggregate Feedback of Semester)**

S No.	Type of Activity	Sem.	API Score
1.	Aggregate % of Student Feedback(75% and above)	I&II	25
Total API Score			25



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### OTHER RELEVANT INFORMATION

Please give details of any other credential, significant contributions, awards received etc. not mentioned earlier.

S. No	Details (Mention Year, Value, etc., where relevant)

I certify that the information provided is correct as per records available with the college or documents enclosed along with the newly filled PBAS profoma.

Signature of the Faculty



  
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Performance Based Appraisal System (PBAS) for Academic Year 2023-2024


**GENERAL INFORMATION**

1.	Name (in Block Letters)	Dr. N. SOWRI RAJA PILLAI
2.	Institute & Department	RAAK College of Engg & Tech & IT
3.	Date of Joining	6/10/2021
4.	Current Designation	HOD-IT & TPO
5.	Any Degree or fresh qualifications acquired during the year	NONE
6.	Highest Professional Qualifications	Ph.D
7.	Fields of Specialization in Subject/Discipline	Software Engineering / Software Testing / Data Mining / E - Commerce

**SUMMARY OF API SCORES**  
**Academic Year 2023-2024**

Category	Criteria	API SCORE Obtained
I	Teaching, Learning & Evaluation related activities	145
II	Co-curricular, Extension, Professional Development, etc.	75
	Total (Categories I(145) + II(75) )	220
III	Research & Academic Contribution	270
IV	Student Experience & Feedback	75
	<b>TOTAL</b> I (145) + II(75) + III(270) + IV(75)	<b>565</b>



  
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**PART - A: ACADEMIC PERFORMANCE INDICATORS**  
(Please see detailed instructions before filling out this proforma)

**CATEGORY- I: TEACHING, LEARNING AND EVALUATION RELATED ACTIVITIES**  
(Maximum Total Score: 150; Minimum Score required: 75)

**1.0 Lectures (L), Seminars(S), Tutorials (T), Practical's (P), Contact Hours (C)**  
(Give semester-wise details, where necessary) Max. Score: 50

Sr. No	Course code	Course Title	Credit Units	Level (UG/PG/Ph.D)	Mode of Teaching (Theory/practical/Tutorial)	No. of Sections Taught	Teaching load per section per week	Total Assigned Teaching Load for Semester	Actual Teaching hours per week	Percentage Completion	API
1	ITE72	Software Testing	3	UG	Theory	1	5	60	5	100%	50
2	ITS2	Software Engineering	4	UG	Theory	1	5	60	5	100%	
3	IT-P74	Seminar	4	UG	Practical	1	3	12	3	100%	
4	IT-P73	Project Phase Phase-I	1	UG	Practical	1	3	24	3	100%	
5	ITE62	Software Project management	3	UG	Theory	1	6	60	6	100%	
6	ITE81	E-Commerce	3	UG	Theory	1	5	60	5	100%	
7	ITP82	Comprehensive Viva-Voce	1	UG	Practical	1	3	36	3	100%	
8	ITP81	Project Phase Phase-II	8	UG	Practical	1	6	36	6	100%	

**2.0 Teaching Load in excess of University norms (Max score: 10)**

Sr. No	Course code	Course Title	Credit Units	Level (UG/PG/Ph.D)	Mode of Teaching (Theory/practical/Tutorial)	Number of extra teaching hours per week	Total for the Semester	API
1	CHM-O level	H1: PC Hardware & Components		UG	Theory	4	60	10
2	CHM-O level	H5: Personality Development		UG	Theory	2	40	10

Note: (a) please refer the PBAS Instruction for score calculation (i.e : category I, Part II),



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3.0 Result/Academic Performance (Max. score: 10)

S.no	Programme	Semester	Course Title	Total Students appeared	Total Students passed	Academic Performance	API	Average API
1	B.Tech	Fifth	Software Engineering	19	19	100%	2.5	10
2	B.Tech	Seventh	Seminar	44	44	100%	2.5	
3	B.Tech	Seventh	Software Testing	43	43	100%	2.5	
4	B.Tech	Seventh	Project Phase Phase-I	44	44	100%	2.5	
5	B.Tech	Sixth	Software Project management	17	17	100%	2.5	
6	B.Tech	Sixth	Comprehensive Viva-Voce	44	44	100%	2.5	
7	B.Tech	Eighth	E-Commerce	44	44	100%	2.5	
8	B.Tech	Eighth	Project Phase Phase-II	44	44	100%	2.5	

4.0 Adherence to Academic Processes & Schedules (Negative Marking)

Note :(a) Please refer the PBAS instruction for score calculation {(i.e. Cat-I, Part IV,)}

Courses : Software Engineering, Software Testing, Software Project management & E-Commerce

S.No.	Course	Mandatory Resources	Y/N	Director's Remarks Y/N	If No Number of Days Delay	API Score
		1. Timely Submission of Session Plan				
		2. Timely Submission Assessment Plan				
		3. Timely Submission Course material/Lecture notes/ reading material				
		4. Timely Submission of student attendance				
		5. Timely Submission of Internal Assessment marks				
		6. Timely Submission of Practical examination marks				
		Total API Score				



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5.0 Use of Participatory and innovative Teaching-Learning Methodologies, Updating of subject content, Course Improvement etc. (Max. Score: 50 points)

S. No.	Short Description	API Score
1	Updated online material (google links with QR code) (6 Sem*2.5)	15
2	b) Dr.Shankari & Dr.Kamatchi from Sathyabama, Chennai. Mr.Saravanan Destiny overseas, Pondicherry Mr.L.D.Chandrasekaran, Vande matram, Pondicherry	6
	f) Project demo for oriento 4 projects 4 *5	20
	h) Orientation - First years (About Dept), MBA & Final years (On Placement) 3 * 5	15
	Total Score	50

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-I, Part 5, Serial No5.1 & 5.2, Page-1)}

6.0 Examination Duties Assigned and Performed (Maximum Score: 25)

S. No.	Type of Examination Duties	Duties Assigned	Extent to which Carried out (%)	API Score
1	University exam paper evaluation / External to other colleges	Paper valuation / Invigilation	100 %	10
2	Evaluation / Submission of internal	Assessment	100%	10
3	NIELIT Exam	Co-ordinator	100%	5

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-I, Part 6)}

Total Score Earned for Category-I (1+2+3+4+5+6) :	(50+10+10+50+25)
Total Max. Score for Category-I (1 to 6):	145
Minimum score required :	100



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**CATEGORY-II: CO-CURRICULAR, EXTENSION & PROFESSIONAL DEVELOPMENT**

(Max. Total Score: 75; Min. Score required: 50)

**1 Extension, Co-curricular & Field-based Activities (Maximum Score: 15)**  
(Mentoring Activities, Club/ Committee activities)

**1.1 Positions held/Leadership role played in organization linked with Extension Work and National service Scheme (NSS), NCC, NSO or any other similar activity (each activity 5 points up to max. of 10 points)**

S No.	Type of Activity	Role	Average Hrs/ Week	API Score	Activity	Score
1	IT Department	Head of the Department	30	5	Positions held	5 points
2	Training & Placements	Training & Placement Officer	6	5	Leadership role played in organization linked with Extension Work	5 points
3	AISHE NISP PARAKH NIRF ARIIA IIC KAPILA	Co-ordinator	4	5	NCC, NSO or any other similar activity	5 points
4	Faculty Recruitment	Panel Member	2	5		
<b>Total API Score</b>				<b>10</b>		

**1.2 Contribution to campus publications for internal newsletter/blog/Magazine**

S No.	Type of Activity	Role	Average Hrs/ Week	API Score	Activity	Score
1	COLLEGE WEBSITE Updation	Co-ordinator	1	10	Magazine/ Newsletter	10 points
<b>Total API Score</b>				<b>10</b>		



  
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**1.3 Community work such as values of National Integration, Yoga day Environment democracy, socialism, Human Rights, peace, scientific temper; flood or, drought**

S No.	Type of Activity	Role	Average Hrs/ Week	API Score	Activity	Score
1	Charity – Buds of Heaven with students	Donated / Served	1	2.5	Community Work Such As Values Of National Integration	2.5 points
					Yoga Day Environment Democracy	2.5 points
					Socialism	2.5 points
					Human Rights	2.5 points
					Peace	2.5 points
<b>Total API Score</b>						

**2 Institution Building: Contribution to Corporate Life and Management of the Institution (Max. Score : 45)**

2.1 Collaborate with industry on projects and take accountability of delivery of as per the agreed timelines, budgets and deliverables (each project 5 points)

S. No.	Contribution to corporate life (Max points: 10)	Role	Unit (committee/ Lecture/Workshop)	API Score
1				
<b>Total API Score</b>				

Note: (a) Please refer the PBAS instruction for score calculation ((i.e. Cat-II, Serial No.2.1 to 2.4))

2.2 Seek feedback from industry on skill requirements / trends and ensure program alignment (Each formal forum 5 points)

Sr No	Formal Forum	Skill Identified	Unit (committee/ Lecture/Workshop)	API Score
1	Vanakkam HR – TPO Meet -11 <sup>th</sup> February 2023 (Chennai)	HR's Connects	Committee	5
2	Bridge Conference – Industrial Opportunities – 14 <sup>th</sup> March 2023 (Chennai)	Industry Academia Gap	Lecture	5
3	Umagine Meet – Industry Institute connects – Chennai – 23 <sup>rd</sup> March 2023 (Chennai)	HR's Connects	Expo - Industry	5
<b>Total API Score</b>				<b>15</b>

2.3 Generate industry co-sponsorship in academic collaborations (e.g. projects, paces, research etc.) (Each collaboration 5 points)

Sr. No	Projects/ spaces/ research etc.,	Role	No. Of collaboration	Max API Score
1	Our Shoulders Foundation - Google	Co-ordinator		5
<b>Total API Score</b>				<b>5</b>



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**2.4 Student Enrolment Support through Entrance test prep, Interviews, Workshops (20 points)**

Sr. No	Type of Activity	No. of Projects	Max API Score
1			
<b>Total API Score</b>			

- i) Boot camps/ Seminar (2 points per activity)
- ii) Students evaluation (2 points per 50 students evaluated)
- iii) Open house (2 points per activity)

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-II, Serial No.2.5)}

**2.5 Student Placements (20 points)**

Sr. No	Type of Activity	No. of Activity	Max API Score
1	MOU-Edureka on 14 <sup>th</sup> February 2023	1	2
2	MOU-S-Net Solutions on 15 <sup>th</sup> February 2023	1	2
3	MOU-eSourceIt on 18 <sup>th</sup> May 2023	1	2
4	MOU-Whirpool on 25 <sup>th</sup> May 2023	1	2
5	MOU-Destiny Overseas on 31 <sup>st</sup> July 2023	1	2
1	Campus Drive – Straive – 1 <sup>st</sup> March 2023	1	2
2	Campus Drive – Lumina Datamatics – 3 <sup>rd</sup> March 2023	1	2
3	Campus Drive - Li Creative – 14 <sup>th</sup> March 2023	1	2
4	Campus Drive – Integra – 20 <sup>th</sup> March 2023	1	2
5	Campus Drive - Gestamp – 4 <sup>th</sup> April 2023	1	2
6	Campus Drive – Sight Spectrum – 4 <sup>th</sup> April 2023	1	2
7	Campus Drive – VWR – 11 <sup>th</sup> May 2023	1	2
8	Campus Drive – Odoo – 13 <sup>th</sup> May 2023	1	2
9	Campus Drive – Saehan Stamping – 15 <sup>th</sup> May 2023	1	2
10	Campus Drive – Lucas TVS - 16 <sup>th</sup> May 2023	1	2
11	Campus Drive – SNY Autotech – 20 <sup>th</sup> May 2023	1	2
12	Campus Drive – eSourceIT – 26 <sup>th</sup> May 2023	1	2
13	Campus Drive – Flexus – 29 <sup>th</sup> May 2023	1	2
14	Campus Drive - Whirpool – 2 <sup>nd</sup> June 2023	1	2
15	Campus Drive – Sri Sai power – 28 <sup>th</sup> November 2023	1	2
16	Campus Drive – Sutherland – 30 <sup>th</sup> November 2023	1	2
<b>Total API Score</b>			<b>42</b>

- i. Support resume writing/ portfolio development (2 points per 50 students)
- ii. Workshops for interview prep (2 points per activity)
- iii. Role of a Mentor (2 points per 10 students)
- iv. Leverage on professional network and champion conversations with organizations (2 points per activity with a corporate)
- v. Assess post internship evaluations (vivas/ reports) (2 points per 50 students)
- vi. Inviting corporates to Career fairs/ Job fairs (2 points per presence of a corporate)
- vii. Organizing committee for Career fairs/ Job fairs (2 points per activity)



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**2.6 Alumni Engagement (10 points)**

Sr. No	Type of Activity	No. of Activity	Max API Score
1	Alumni Talk - Video	1	2
2	Alumni – Google Reviews	1	2
<b>Total API Score</b>			<b>4</b>

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-II, Serial No.2.6-2.7)}

- i. Current student engagement through alumni (2 points per activity)
- ii. Inviting alumni to be mentors (1 points per Alumnus invited)
- iii. Alumni event (chapter wise) (2 points per activity)

**2.7 Membership and measurable contribution to committees concerned with any aspect of departmental or institutional management such as FDP Committee, NAAC/Accreditation committee, admission committee, campus development, library committee (5 points each, max 15 points)**

Sr. No	Name of the committee	Role	No Of Activity	Max API Score
1	Discipline	Member	1	5
2	Governing Body	Member	1	5
3	Admission	Member	1	5
4	Anti-ragging	Member	1	5
<b>Total API Score</b>				<b>15</b>

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-II, Serial No.2.6-2.7)}

**3 Professional Development Activities (Maximum Score: 10)**

**3.1 Membership in profession related committees at state and national level Maximum of 10 points (a+b)**

S.No.	Type of Activity (Membership in profession)	No. of committees	API Score
1	SESD – Society for Environment and Sustainable Development (Lifetime Member - National)	1	5
<b>Total API Score</b>			<b>5</b>

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No.3.1)}



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**3.2 Participation in subject related associations, conferences, and seminars without paper presentation (each activity: 2 points: Max. 10 points)**

S.No.	Type of Activity	No. of Event	API Score
1	Workshop on Digital creativity skills - Adobe	1	2
2	FDP – Machine learning and Its Real time applications – 06/March/23 to 10/March/23 - MVIT	1	2
3	National Seminar – Awareness and attitude towards cryptocurrrencies in India – IFET - 10/March/23	1	2
4	National Seminar – 2 days – 23 and 24th/March/23	1	2
5	National Seminar – Industrial IOT and Digital twins for a smart factory – 22/April/23	1	2
6	IIC Regional meet - Chennai – Poster Presentation – 31/Jan/23	1	2
<b>Total API Score</b>			<b>10</b>

Note:

(a) Please refer

the PBAS instruction for score calculation {(i.e. Cat-III, Serial No.3.2)}

**3.3 Membership/participation in State/Central Bodies/Committees on Education, Research and National Development (5 points each: maximum 10 points)**

S.No.	Type of Activity	No. of Event	API Score
1			
<b>Total API Score</b>			

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No.3.3)}

**3.4 Publication of articles in newspapers, magazines or other publications (not covered in category-III); radio talks; television programmes (1 point each, upto maximum 10 points)**

Type of Activity	No. of Activity	API Score
<b>Total API Score</b>		

(a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No.3.4)}

Total Score Earned for Category-II (1+2+3) : 15+59+10	84
Total Max. Score for Category-II (1+2+3) : Max limit -75	75
Minimum Score required: 50	



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**CATEGORY-III: RESEARCH, PUBLICATIONS & ACADEMIC CONTRIBUTIONS**

1.0 Research Papers published in Journals:

S. No	Title with page number	Journal	ISSN/ ISBN No.	Whether peer reviewed. Impact factor, if any	No. of Co-authors	Whether you are the main author	API Score
1.	MEDICAL - CYBER PHYSICAL SYSTEM ; A DIGITAL HEALTHCARE SOLUTION Vol.8, Issue 12, page no.b727-b732	International Journal of Novel Research and Development	ISSN:2456-4184	8.76	3	YES	15
2.	Hybrid User Acceptance Test Procedure to Improve the Software Quality, Vol. 19, No. 6, November 2022 p.956	The International Arab Journal of Information Technology (IAJIT)	ISSN: 1683-3198 e-ISSN: 2309-4524	0.967	1	YES	15
Total API Score							30

Note: (a) Please refer the PBAS instruction for score calculation ((i.e. Cat-III, Serial No. 1.1 page-17-19))  
(b) Supporting document for research paper to be enclosed as Annexure-Cat III (1.1)

1.2 Full papers in Conference Proceedings:

S. No.	Title with page number	Details of conference Publications	ISSN/ISBN No.	No. of Co-authors and Date of publication	Whether you are the main author	API Score
1						
Total API Score						

Please refer the PBAS instruction for score calculation ((i.e. Cat-III, Serial No. 1.2)  
Supporting document for research paper to be enclosed as Annexure-Cat III (1.2)

1.3 Articles/ Chapters published in Books

S. No.	Title with page number	Book Title, editor & publisher	ISSN/ ISBN No.	Whether peer reviewed.	No. of Co-authors and Date of Publication	Whether you are the main author	API Score
1							
Total API Score							

Please refer the PBAS instruction for score calculation ((i.e. Cat-III, Serial No. 1.3))

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1.3. Books published as Author or as Editor/Translator

S. No	Title with page no.	Type of Book & Authors hip	Publisher & ISSN/ ISBN No.	Whether Peer Reviewed	No. of Co-author & Date of Publication	Whether you are the main author	API Score
1							
Total API Score							

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 1.4 page-21)}

1.4 Chief Editor/Guest Editor/Editor/Associate Editor; Member, Consultant Member of Editorial/Advisory Board of Journal and Reviewer/Referee of a Journal

S. No.	Refereed Journal with/without ISBN/ISSN Numbers	Status	API score
1	REMOTE SENSING IMAGES FOR WATER QUALITY MONITORING BASED ON DEEP LEARNING MODEL: A SURVEY, Ref.: Ms. No. MEASEN-D-23-00199R1 – REVIEWER ELSEVIER	Completed	10
Total API Score			10

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 1.5

2.0 Research Projects, Consultancies and Assignments

Sponsored Projects (Carried out/Ongoing)

S. No.	Title	Agency	Period	Grant/ Amount Mobilized (Rs. Lakhs)	API Score
1	Online Exam	AFCAT	3 days	65,908	10
2	Online Exam	CUET	2 days	36,302	10
3	Online Exam	AMIRTHA	4 days	41,000	10
4	Online Exams	TOEFL / GRE	24 days	4,00,000	20
Total API Score					50

Note: (a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 2.1 -2.3)}



*[Signature]*  
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**2.0 - 2.5 Consultancy Projects (Carried Out/Ongoing/Completed)**

S. No	Title	Agency	Period	Grant/ Amount Mobilized(Rs. Lakhs)	Whether Policy Documents /Patent as outcome	API Score
1						
<b>Total API Score</b>						

Note: (a) Please refer the PBAS instruction for score calculation ((i.e. Cat-III, Serial No. 2.2 to 2.3 page- 23))

**2.4 Filing & Award of Patents/Policy Document/Technology Transfer Process**

S. No.	Type of Patent	Filed		Awarded/Published		API Score
		Date	File No.	Date	Patent No.	
1	ORDINARY - AI enabled energy management control techniques for fuel cell based Electric vehicle	20/02/2023	202341011572	17/03/2023		30
2	ORDINARY - Method and System for Automated Plagiarism Detection Using Artificial Intelligence and Deep Learning	15/07/2023	202341047852	01/09/2023		30
<b>Total API Score</b>						60

Note: (a) Please refer the PBAS instruction for score calculation ((i.e. Cat-III, Serial No. 2.4 page-23))

**2.5 Overseas Assignments**

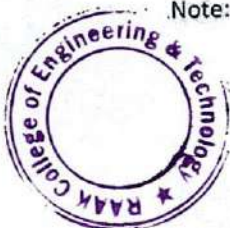
S. No.	Title/Description of Assignment	Agency	Period	Fund Amount (Rs. Lakhs)	Outcome	API Score
1						
<b>Total API Score</b>						

Note: (a) Please refer the PBAS instruction for score calculation ((i.e. Cat-III, Serial No. 2.5 page-24))

**3.0 Research Guidance**

S. No.	Degree	Number of Scholar Enrolled	Status	Degree Awarded	API Score
1					
<b>Total API Score</b>					

Note: (a) Please refer the PBAS instruction for score calculation ((i.e. Cat-III, Serial No. 3 page-24))



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4.0 Organizing/Participating in training courses, teaching-learning-evaluation technology in faculty development programmes

4.1 & 4.2 Training Courses, Teaching-Learning-Evaluation Technology, Faculty Development Programmes

S. No.	Programme	Duration	Organised/Presented by	API Score
1	Placement Training – Google Certification	2 months	Our Shoulders Foundation, Chennai	30
2	Placement Training – Aptitude & JAVA	2 weeks	Tech Wings Technologies, Puducherry	30
3	Webinar on Intellectual Property	1 day	Mr. M. Madhanraj, Examiner Of Patents & Designs, Indian Patent Office(Ipo), Chennai	10
4	Seminar about the Web Development	1 day	Mrs.A. Sarkunavathi, Area Adjunct Faculty & Quality Coordinator, Edureka Learning Center,	10
5	Guest lecture on the Power of Homeopathy	1 day	Dr. B. Arivarasi., B.H.M.S., Homeopathy Doctor, Nalam Pharmacy, Puducherry.	10
6	Guest Lecture on Machine Learning in Python	1 day	Dr. Kamatchi and Dr. Sankari M, from Satyabama Institute of Science & Technology	10
7	IBM certification on Project management	1 day	IBM Skillbuild	10
8	IBM certification on Data Science	1 day	IBM Skillbuild	10
<b>Total API Score</b>				<b>120</b>

Note: (a) Please refer the PBAS instruction for score calculation ((i.e. Cat-III, Serial No. 4.1 and 4.2 page-25))

4.3 Papers presented in Conferences, Seminars, Workshops, Symposia /Session Chaired, etc.

S. No.	Title of the paper presented	Title of Conference/ Seminar etc.	Date (s) of the event	Organized by	No. of Co-authors	Whether you presented the Paper	Whether International/ National/State/Regional/ University or College Level	API Score
1								
<b>Total API Score</b>								

Note: (a) If a paper presented in Conference/Seminar is published in the form of Proceedings (Full Paper), the points would accrue for the publication as Category III, (1.2) and not under this heading.

(b) Please refer the PBAS instruction for score calculation ((i.e. Cat-III, Serial No. 4.3 page-25))



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**4.3 Invited Lectures (including Extension) and Chairmanships at National or International Conference / Seminars; Office Bearer / Advisor of Registered Professional Bodies**

S. No.	Title of Lecture/ Academic Session	Title of Conference/ Seminar etc.	Date(s) of the event	Organized by	Whether International/ National/State	API Score
1						
Total API Score						

(a) Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 4.4)}

**4.4: Experience as Post-Doctoral Fellow / Research Associate / Visiting Professor**

S. No.	Research Associate / Post-Doctoral Fellow	Institution	Duration	Major Achievements	API Score
1					
Total API Score					

Please refer the PBAS instruction for score calculation {(i.e. Cat-III, Serial No. 4.5)}

<b>Total Score Earned for Category-III</b>	<b>250</b>
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**CATEGORY-IV: STUDENT EXPERIENCE &**

**FEEDBACK**

**(Max. Total Score: 100; Min. Score required: 75)**

1.1 Student Experience related Activities (Maximum Score: 50)  
(Counselling, Orientation Activities, Interviews, Controlling Student attrition)

S No.	Type of Activity	Activity/ Sem.	API Score
1.	G-20 Painting Competition 28/02/23	1/Even	5
2.	AKAM – Story Writing 30/03/23	2/Even	5
3.	G-20 Crossword Competition 05/04/23	3/Even	5
4.	AKAM – Quiz Competition	4 /Even	5
5.	G-20 Song Creation, Dance & Tableau	5/Even	5
6	TECHASTRA – Students Association with Activities	6/ Both	5
7	Pongal Festival	7/Even	5
8	Ayudha Pooja	8/Odd	5
9	Sports day	9/Odd	5
10	Farewell – IT Dept	10/Even	5
	Total API Score		50

Note: (a) Please refer the PBAS instruction for score calculation ((i.e. Cat-VI, Serial No.1.1 to 1.21))

1.2 Student Attrition (Maximum Score: 50)

S No.	Student Attrition	API Score
1.	Zero- 50	
2.	Between 1%- 3%- 5	5
3.	Above 3%- Nil	

2.0 Student Feedback (Maximum Score: 25) (Aggregate Feedback of Semester)

S No.	Type of Activity	Sem.	API Score
1.	Aggregate % of Student Feedback (75% and above)	ODD	25
	Total API Score		25

(Refer PBAS Instruction Category IV 2.0)

**OTHER RELEVANT INFORMATION**

Please give details of any other credential, significant contributions, awards received etc. not mentioned earlier.

S. No	Details (Mention Year, Value , etc., where relevant)

I certify that the information provided is correct as per records available with the University and/or documents enclosed along with the newly filled PBAS proforma.

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Signature of the Faculty





RAAK COLLEGE OF ENGINEERING & TECHNOLOGY  
(Approved by AICTE, Affiliated to Pondicherry University)  
A unit of Farouk Educational trust

PBAS CHECKLIST - Academic Year 2023-2024  
Dr.N.Sowri Raja Pillai HOD- IT / TPO

CATEGORY- I: TEACHING, LEARNING AND EVALUATION RELATED ACTIVITIES				
Sl.No	Nature of ACTIVITY	ACTUAL	OBTAINED	Page Nos
1	Lectures (L), Seminars(S), Tutorials (T), Practical's (P), Contact Hours (C) (Give semester-wise details, where necessary)	50	50	
2	Teaching Load in excess of University norms	10	10	1 to 4
3	Result/Academic Performance	10	10	5 to 8
4	Adherence to Academic Processes & Schedules			
5	Use of Participatory and innovative Teaching-Learning Methodologies, Updating of subject content, Course Improvement etc.			
1	Updated online material (google links with QR code) (6 Sem*2.5)	15		9
	b) Dr.Shankari & Dr.Kamatchi from Sathyabama, Chennai.			
	Mr.Saravanan Destiny overseas, Pondicherry			
2b	Mr.L.D.Chandrasekaran, Vande matram, Pondicherry	6		11
2f	Project demo for oriento 4 projects 4 *5	20		12
2h	Orientation - First years (About Dept), MBA & Final years (On Placement) 3 * 5	15		13
	<b>MAXIMUM AGGREGATE LIMIT</b>		50	
	<b>Examination Duties Assigned and Performed</b>			
1	University- Paper valuation / Invigilation		10	
2	Internal mark submission Assessment		10	
3	NIELIT EXAM - Co-ordinator		5	
	<b>CATEGORY - I TOTAL</b>		145	



  
Dr. S. SEENUVASAMURTHI, M.E., Ph.D.  
PRINCIPAL  
RAAK College of Engineering & Technology  
No.1, Muthupillai Palayam Road,  
Sulthanpet Post,  
Puducherry - 605 110

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# RAAK COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, Affiliated to Pondicherry University)

No: 1, Muthupillai Palayam Road, G.N.Palayam, Villianur, Puducherry - 605 110

## AKAM EVENTS

### DEPARTMENT OF INFORMATION TECHNOLOGY

SL.NO	EVENT	DATE
1	TRICOLOUR DRESSING	Food Competition
		Essay Writing
		Dressing code
2	SLOGAN CONTEST	29/07/2022
3	ELOCUTION COMPETITION	30/07/2022
4	QUIZ COMPETITION	01/08/2022
5	CYCLING ROUTINE	03/08/2022
6	SLOGAN WRITING	05/08/2022
7	FREEDOM SPEECH COMPETITION	05/08/2022
8	PLEDGE	10/08/2022
9	FLAG PORTRAIT COMPETITION	11/08/2022
10	FLAG DISTRIBUTION	11/08/2022
11	PRIZE DISTRIBUTION FLAG HOISTING	12/08/2022
		15/08/2022



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**CATEGORY-IV**

**1. G-20 Painting Competition**

**RAAK COLLEGE OF ENGINEERING & TECHNOLOGY, PUDUCHERRY**  
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 (A Unit of Farook Educational Trust)  
 No. 1, Muthupillai Palayam Road, G.N.Palayam, Villupuram, Puducherry - 605 110  
 info@raakg20.com, www.raakg20.com  
**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**ORGANIZES**  
**G20 - PAINTING COMPETITION**

DATE: 28.2.2023  
 Department of Information Technology organized G20 - Painting Competition at our campus on 28<sup>th</sup> Feb 2023. This event has been conducted at IV - IT, second floor.  
**PAINTING COMPETITION PHOTOS**



**2. G-20 Crossword Competition**

**RAAK COLLEGE OF ENGINEERING & TECHNOLOGY**  
 Approved by AICTE, Affiliated to Pondicherry University  
 (A Unit of Farook Educational Trust)  
**DEPARTMENT OF INFORMATION TECHNOLOGY**  
 Organizes  
**G20 CROSSWORD COMPETITION**  
 5 April 2023 12:30 PM  
 WORDS  
 Challenge the best minds around you  
 M mufg20@gmail.com www.raakg20.com





**3. G-20 Song Creation, Dance & Tableau**

**RAAK COLLEGE OF ENGINEERING & TECHNOLOGY, PUDUCHERRY**  
 Approved by AICTE, New Delhi. Affiliated to Pondicherry University  
 (A Unit of Farook Educational Trust)  
 No. 1, Muthupillai Palayam Road, G.N.Palayam, Villupuram, Puducherry - 605 110  
 info@raakg20.com, www.raakg20.com  
**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**ORGANIZES**  
**G20 - SONG CREATION, DANCE & TABLEAU COMPETITION**

DATE: 03.6.2023  
 Department of Information Technology organized G20 - Song Creation, Dance & Tableau Competition at our campus on 3<sup>rd</sup> June 2023. This event has been conducted at IV - IT, second floor.  
**SONG CREATION, DANCE & TABLEAU PHOTOS**



*[Handwritten Signature]*  
**Dr. S. SEENUVASAMURTHI, M.E., Ph.D.**  
**PRINCIPAL**  
 RAAK College of Engineering & Technology  
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 Sulthanpet Post,  
 Puducherry - 605 110

<p>Mr. M. Madhanraj, Examiner Of Patents &amp; Designs, Indian Patent Office(Ipo), Chennai</p>	<p>Webinar on Intellectual Property</p>		<p>15/03/2023 @ 12.00pm</p>
<p>Mrs.A. Sarkunavathi, Area Adjunct Faculty &amp; Quality Coordinator, Edureka Learning Center, Tamilnadu.</p>	<p>Seminar about the Web Development</p>		<p>17/03/2023 @ 2.00 pm</p>
<p>Dr. B. Arivarasi., B.H.M.S., Homeopathy Doctor, Nalam Pharmacy, Puducherry.</p>	<p>Guest lecture on the Power of Homeopathy</p>		<p>11/04/2023 @ 12 pm</p>
<p>Dr. Kamatchi and Dr. Sankari M, from Satyabama Institute of Science &amp; Technology</p>	<p>Guest Lecture on Machine Learning in Python</p>		<p>15/09/2023 @ 12pm</p>

IBM SkillsBuild Completion Certificate



This certificate is presented to

Ajay

for the completion of

**Project Management Fundamentals**

(ILB-DNRVVRGKDNQ09X)



According to the IBM Learning Patterns system of

Completion date: 28 Sep 2023 (GMT)

**Dr. S. SEENUVASAMURTHI, M.E., Ph.D.**  
PRINCIPAL

**RAAK College of Engineering & Technology**

No.1, Muthupillai Palayam Road,  
Suthanpet Post,  
Puducherry - 605 110

This is to certify that

**Anjum**

successfully completed and received a passing grade in

**Data Science 101**  
(ESG02EN, provided by IBM)

A course on skillsbuild skillsnetwork site  
Powered by IBM Developer skills network

Issued by  
IBM SkillsBuild

September 28, 2023

Authenticity of this certificate can be verified by going to  
https://www.skillsbuild.com/verify/ILB-DNRVVRGKDNQ09X



# ORDINARY - Method and System for Automated Plagiarism Detection Using Artificial Intelligence and Deep Learning



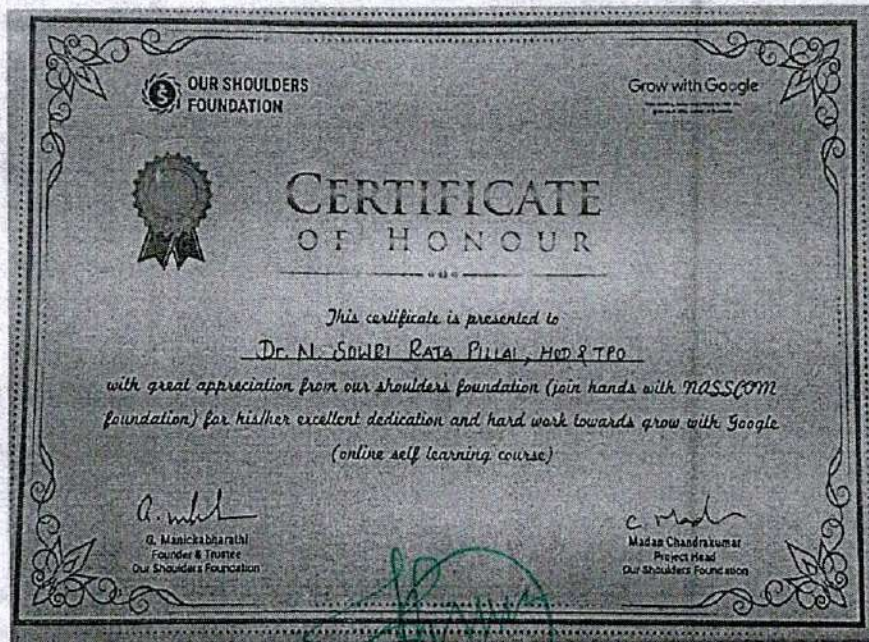
Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India



Application Details	
APPLICATION NUMBER	202341047852
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/07/2023
APPLICANT NAME	1. Dr. N. Sowri Raja Pillai 2. Dr. Kilaru Madhavi 3. Dr. TVS Divakar 4. Dr. Anusha Ampavathi 5. Mr. Dhruva Sreenivasa Chakravarthi 6. Dr. M. Sailaja 7. Dr. R. Sivajothi 8. Mr. Kallash Udhamdas Makhija 9. Mrs. Shirin Shafi Pinjari 10. Dr. Nellore Manoj Kumar
TITLE OF INVENTION	Method and System for Automated Plagiarism Detection Using Artificial Intelligence and Deep Learning
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	03mrmanoj@gmail.com
ADDITIONAL-E-MAIL (As Per Record)	03mrmanoj@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S-11A)	01/09/2023

## 4.1 & 4.2

1. Placement Training – Google Certification Our Shoulders Foundation, Chennai



**Dr. S. SEENUVASAMURTHI, M.E., Ph.C.**  
**PRINCIPAL**  
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CATEGORY-III:

1.4)

REMOTE SENSING IMAGES FOR WATER QUALITY MONITORING BASED ON DEEP LEARNING MODEL: A SURVEY, Ref.: Ms. No. MEASEN-D-23-00199R1 – REVIEWER ELSEVIER



2.4) Filing & Award of Patents/Policy Document/Technology Transfer Process

ORDINARY - AI enabled energy management control techniques for fuel cell based Electric vehicle

Application Details	
APPLICATION NUMBER	202341011572
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/02/2023
APPLICANT NAME	1. Dr. Gopikrishna Pasam 2. Dr. T. Ravindar 3. Mr. Manish Kumar Babu 4. Mr. Tarini Prasad Pattanaik 5. Dr. L. Kishore 6. Dr. Pankaj Kumar Singh 7. Mr. P. Arunkumar 8. Mr. Sumit Kumar Maitra 9. Dr. D.V. Lokeswar Reddy 10. Dr. N. Sowri Raja Pillai
TITLE OF INVENTION	AI enabled energy management control techniques for fuel cell based Electric vehicle
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	03mrmanoj@gmail.com
ADDITIONAL-EMAIL (As Per Record)	03mrmanoj@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (U/S 11A)	17/03/2023



Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India



INTELLECTUAL  
PROPERTY INDIA  
PATENTS, DESIGNS, TRADE MARKS  
GEOGRAPHICAL INDICATIONS



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Sulthanpet Post,  
Puducherry - 605 111.



# Hybrid User Acceptance Test Procedure to Improve the Software Quality

Natarajan Sowri Raja Pillai  
Department of Information Technology  
Raak College of Engineering and Technology,  
India  
sowrirajacse@gmail.com

Ranganathan Rani Hemamalini  
Department of Electrical and Electronics Engineering  
St. Peters Institute of Higher Education and Research,  
India  
ranihema@yahoo.com

**Abstract:** Fast-growing software needs result in the rise of quality software in technical and time challenges in software development and the impact the cost and scarcity of resources addressed by the companies. Thus, this research focuses on optimal implementation of the User Acceptance Testing (UAT) and the process generation integration. The Software Development Life Cycle (SDLC) was adapted to develop software and introduce the UAT process right from the initial phase of the software development. Additionally, it is devised to maximise time reduction by implementing the client testing in all the three processes. A High Capability to Detect (HCD) procedure has been incorporated in the problem formulation that has optimally identified sensitive bugs. A Modified Reuse of Code (MRC) is proposed for a feasible time-saving solution. The proposed UAT will provide an optimal solution in the software testing phases implemented earlier than black-box testing. The proposed UAT has significantly better production time, development cost, and software quality in comparison to other traditional UATs. The study's findings were corroborated by the output data from the UAT cases. The UAT ensures the quality of the product in the early phase of the development and implementation of the projects. This will minimise the risk during and post-implementation of bugs and achieve the target audience's needs.

**Keywords:** Black box testing, high capability to detect, modified reuse of code, user acceptance test.

Received April 18, 2021; accepted October 21, 2021  
<https://doi.org/10.34028/iajit/19/6/14>

## 1. Introduction

Software Testing is made up of several stages or phases. Software testing and its precursor, software development, is made up of multiple phases. All the phases mentioned above make up the two main basic lifecycles, namely Software Development Life Cycle and Software Testing Life Cycle. The stages involved in the Software Development Life Cycle (SDLC) are Business Analysis, Requirement Gathering, Requirement Analysis, Design, Development, Testing, Implementation, and Maintenance. The testing process in SDLC is done using the stages of the Software Testing Life Cycle (STLC). Unit testing, functional verification testing, system integration testing, system verification testing, and User/Client Acceptance Testing are the steps of the STLC (CAT).

Testing is a vital part of the software development process. The quality of the software testing is used to determine the quality of the software. Due to the crucial nature of testing, a lot of human effort and resources are being spent on planning and executing testing. The classic waterfall SDLC model is being considered throughout the length of this work since this model is widely accepted among major software companies which develop software. Irrespective of the SDLC model being followed, there is an emphasis on testing. Since the quality of the software plays a

major role, keen care is being taken by all the companies to test for the quality. The last and end part in providing quality of developed software is the company's system verification testing. However, the customer or client or user is the actual person to use the software after implementation. On this consideration, CAT is being carried out at every firm. At this juncture, software quality is a requirement of the client or customer [5]. However, the client or the customer has not been involved throughout the software development and testing processes. The only phase where the customer gets involved is at the client or customer acceptance testing. The software passes numerous phases in the development life cycle and the testing life cycle.

Hence, one has to be very ardent on quality at the beginning than at the end. A quality product is a product that ensures quality right from its base. So, to ensure quality from its base, one has to test it from the base. This is a primary requirement for any user, developer, or other person involved in developing the software. The reason for this research is the query if the quality is being required from the base by the client or customer, why is the testing being carried out by the customer or client at the end of the testing. This kind of testing at the end leads to enormous usage of human resources, huge costs, and a lot more on time. The actual proposal of the research is to ensure user or

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AND DEVELOPMENT (IJNRD) | IJNRD.ORG**  
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# MEDICAL CYBER - PHYSICAL SYSTEM; A DIGITAL HEALTHCARE SOLUTION

Under the guidance of

**DR .N. SOWRI RAJA PILLAI B.E., M.Tech, Ph.D, M.B.A.,**

Head of the department

Department of Information Technology

**JESINTHA MARY. D, EZHILARASI. R, YAZHINI K**

Department of Information Technology

RAAK College of Engineering and Technology

**Abstract-** Several advanced countries are working to develop an efficient architecture and mechanism for Electronic Health Record (EHR) which is gradually eliminating the use of paper and becoming more popular in healthcare organizations. Online accessing of patient record and transaction related to diagnosis have many benefits for patients as well as healthcare organization and professionals. But it also raises serious privacy issues related to private data of patient e.g. any patient would not like to expose some health information which may defame her/him or may create problem for her/his professional career as well as personal life. Internet based EHR systems allow patients remote access to their entire medical history anytime. Hence security and privacy comes in the picture. For adaptation of the EHR, the key factors are financial incentives and barriers, laws and regulations, the state of technology, and organizational influences. EHR systems are highly desired for efficient integration of all relevant medical information of a person and to represent a lifelong documentation of medical history. Several threats to confidentiality of healthcare information from inside the healthcare institution, outsider intrusion into medical information systems is crucial. This proposed EHRCHAIN system can provide a convenient, simple, privacy preserving, secure mechanism. It can ensure availability of patient's health information to any healthcare entity at any time with consent of patient. In this proposed work and prototype implementation, we have simulated some basic healthcare activities. There are still more activities related with the security of EHR and the privacy of patients, which are needed to be known how these activities can be compatible with existing functions in the implementation. Data management becomes difficult because of the growing numbers of patients' data and information hence concept of Big Data and Cloud

computing is required. In future, Blockchain technology and smart contracts seems to be more appealing in the field of healthcare. This proposed solution provides a huge possibility for medical research on particular disease. It can provide anonymous health data which will not have any identifiable information of patient, to researchers.

*Index Terms*—EHR, Security, Sub Carrier, Data Leak Reduction.

## INTRODUCTION

Electronic Health Record (EHR) is gradually eliminating the use of paper and becoming more popular in healthcare organizations. Online accessing of patient record and transaction related to diagnosis have many benefits for patients as well as healthcare organization and professionals. But it also raises serious privacy issues related to private data of patient e.g. any patient would not like to expose some health information which may defame her/him or may create problem for her/his professional career [1]. Internet based EHR systems allow patient to remote access their entire medical history anytime. Hence security and privacy comes in the picture. For adaptation of the EHR, the key factors are financial incentives and barriers, laws and regulations, the state of technology, and organizational influences [2].

There are three correlated records in healthcare information system:

Personal Health Record (PHR) is typically a record that is maintained by patient. It includes complete summary of medical history by gathering information from many sources including EMR and



3.2)

**Certificate of Participation**
  
 presented to  
**Dr. SOWRI RAJA PILLAI N**
  
 of  
**Raak College Of Engineering & Technology - Puduchery**
  
 for participating in Professional Development Workshop on Digital Creativity Skills,  
 as a part of Adobe Academic Essentials program.

Dr. M. S. Srinivasan  
 Director

Dr. M. S. Srinivasan  
 Director

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 Accredited by NBA-AICTE, New Delhi, ISO 9001:2000 Certified Institution &  
 Accredited by NAAC (with 'A' Grade)  
 Madhavagpet, Puducherry - 605 107

**CERTIFICATE OF PARTICIPATION**

This is to certify that Dr. M. Sowri Raja Pillai N  
 of Raak College of Engineering and Technology  
 has participated in the 5 days online Faculty Development Programme on Machine Learning and Its Real-Time Applications organized by the Department of Computer Science and Engineering, Sri Manakula Vinayagar Engineering College, Puducherry from 06.03.2023 to 10.03.2023.

Co-ordinator  
 Dr. T. Megala
 

  
 Coordinator  
 S. Deeba
 

  
 HOD/CSE  
 Dr. K. Prasad Kumar
 

  
 Director cum Principal  
 Dr. V.S.K. Venkateshvaran

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**ICSSR SPONSORED**  
**ONE DAY NATIONAL LEVEL SEMINAR**  
 ON  
**«Awareness and Attitude Towards Cryptocurrencies in India»**  
**Certificate of Participation**

This is to certify that Dr./Mr./Ms. SOWRI RAJA PILLAI N, RAAK COLLEGE OF ENGINEERING & TECHNOLOGY, has actively participated in the One Day National Level Seminar on "Awareness and Attitude Towards Cryptocurrencies in India" Organized by Department of Electronics and Communication Engineering, IFET College of Engineering, Villupuram on 10<sup>th</sup> March 2023.

Convener
 

  
 Director

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 IFET Nagar, Gangaaruppalayam, Villupuram - 605 108. Website: www.ifet.ac.in

**SERB SPONSORED**  
**TWO DAYS NATIONAL LEVEL SEMINAR**  
 ON  
**MACHINE LEARNING AND IOT POWERED SMART APPLICATIONS**  
**Certificate of Participation**

This is to certify that Dr./Mr./Ms. N. SOWRI RAJA PILLAI N, RAAK COLLEGE OF ENGINEERING & TECHNOLOGY, has actively participated in the two days National Level Seminar on "Machine Learning and IOT Powered Smart Applications" organized by Department of ECE and IT, IFET College of Engineering, Villupuram on 23<sup>rd</sup> and 24<sup>th</sup> March 2023.

Convener
 

  
 HoD
 

  
 Principal

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**CSIR SPONSORED**  
**ONE DAY NATIONAL LEVEL SEMINAR**  
 ON  
**INDUSTRIAL IOT AND DIGITAL TWINS FOR A SMART FACTORY**  
**Certificate of Participation**

This is to certify that Dr./Mr./Ms. SOWRI RAJA PILLAI N, RAAK COLLEGE OF ENGINEERING & TECHNOLOGY, has actively participated in the One Day National Level Seminar on "Industrial IoT and Digital Twins For a Smart Factory" organized by Department of Information Technology, IFET College of Engineering, Villupuram on 12<sup>th</sup> April 2023.

Convener
 

  
 Director

**DR. S. SEENIVASAMURTHI, M.E.**  
**PRINCIPAL**  
**RAAK College of Engineering & Technology**  
**No. 1, Muthupillai Palayam Road,**  
**Sulthanpet Post,**  
**Puducherry - 605 110**



<p>3</p> <p>eSourceIt on 18<sup>th</sup> May 2023</p>	<p>Memorandum of Understanding (MoU) was signed between RAAK College of Engineering &amp; Technology (RAAKCET) and eSourceIt Technologies, Puducherry. The purpose of this MoU is to establish and promote employment opportunities and internships. The signing ceremony involved Mrs. Kalpana Subramaniam, the Managing Director of eSourceIt Technologies and Dr. S. Seenuvasamurthi, Principal, RAAK CET.</p>	
<p>4</p> <p>Whirlpool on 25<sup>th</sup> May 2023</p>	<p>Memorandum of Understanding (MoU) was signed between RAAK College of Engineering &amp; Technology and Whirlpool, Puducherry. To establish and promote employment opportunities and internships the MoU was signed. The signing ceremony involved Mr. K. Ramesh, the Manager-HR, Whirlpool, Puducherry and Dr. S. Seenuvasamurthi, Principal, RAAK CET.</p>	
<p>5</p> <p>Destiny Overseas on 31<sup>st</sup> July 2023</p>	<p>RAAKCET and Destiny Overseas are committed to enhancing the educational experience of our students through exposure to global academic environments and cultural diversity. Mr. Saravane Viramoothu, Chief Executive Officer of Destiny Overseas and Dr. S. Seenuvasamurthi, Principal of RAAK CET, affixed their signatures to the MoU, signifying the commencement of this meaningful partnership.</p>	

3.1) SESD – Society for Environment and Sustainable Development (Lifetime Member - National)

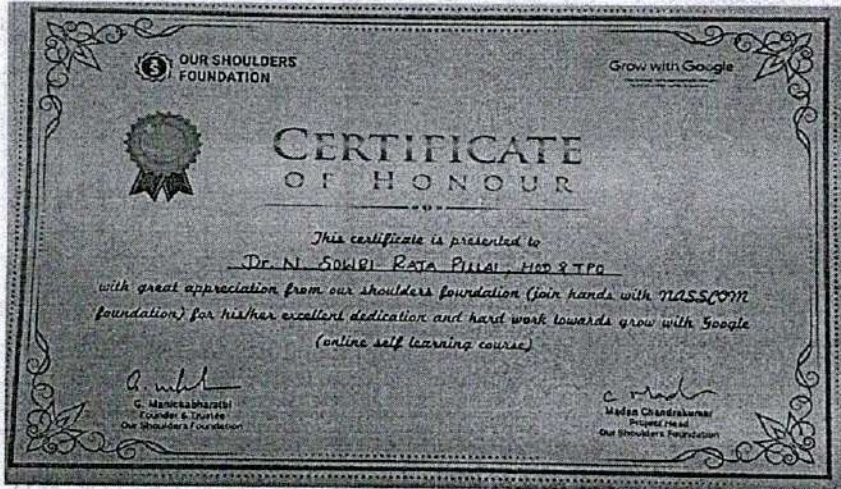


  
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**PRINCIPAL**  
**College of Engineering & Technology**  
**1, Muthupillai Palayam Road,**  
**Sulthanpet Post,**  
**Puducherry - 605 110**



2.3) OUR SHOULDERS FOUNDATION – GOOGLE

17

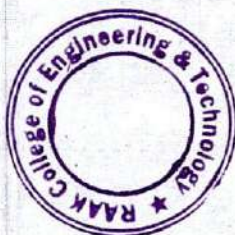


2.5) STUDENT PLACEMENTS

Memorandum of Understanding - 2023

Sl.No	DATE	Details	PHOTO's
1	Edureka on 14 <sup>th</sup> February 2023	Edureka Learning Center and RAAK College of Engineering & Technology signed a Memorandum of Understanding (MoU). The MOU was signed and is shared by Mrs.J.Shalini, Center Manager, Edureka Learning Center and Dr. S. Seenuvasamurthi Principal, RAAK CET in order to establish and promote the development of joint studies, research, training and job prospects.	
2	S-Net Solutions on 15 <sup>th</sup> February 2023	Memorandum of Understanding (MoU) was signed on February 15, 2023 by S-Net Solutions and RAAK College of Engineering & Technology. In order to establish and promote the research, publication, and training prospects, the MOU was signed and is shared by Mr. R. Ravitchandiran, Managing Director, S-Net Solutions, and Dr. S. Seenuvasamurthi, Principal, RAAK CET	

**Dr. S. SEENUVASAMURTHI, M.E., Ph.C.**  
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 Sulthanpet Post,  
 Puducherry - 605 110



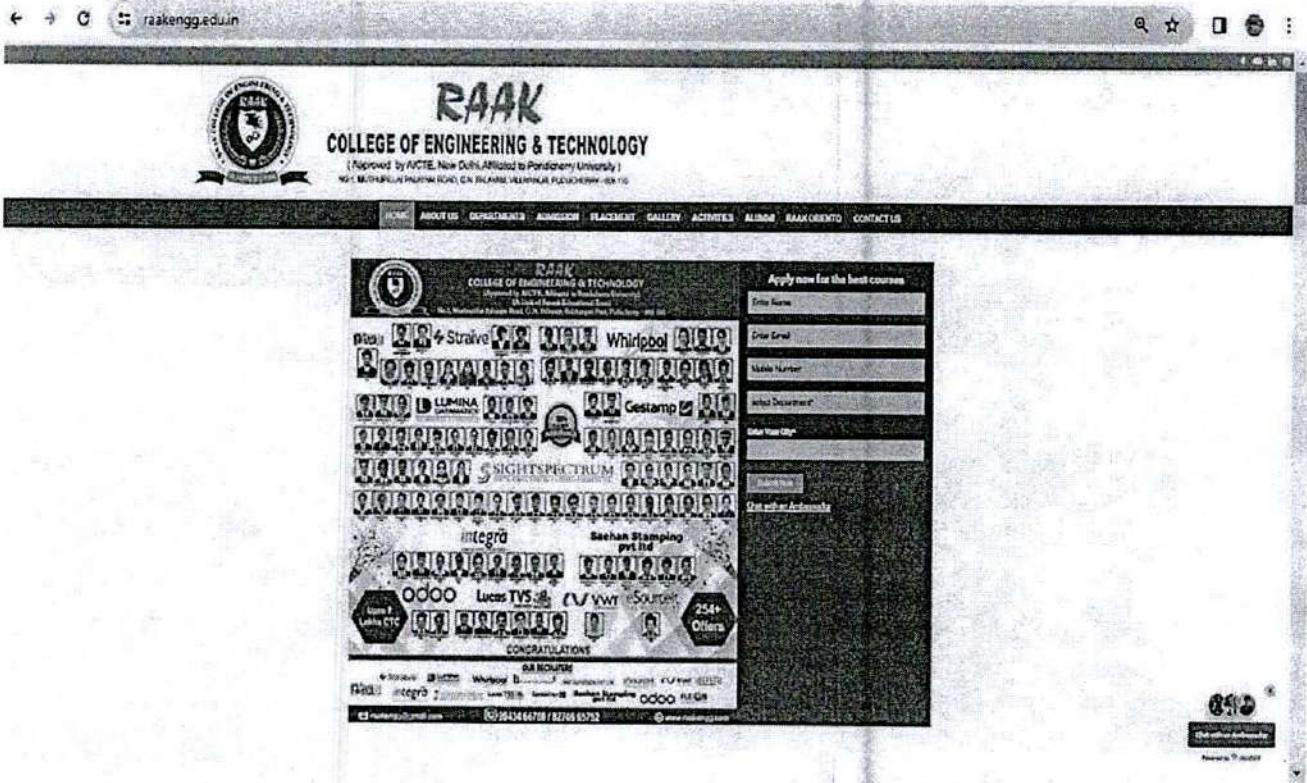
16

2.2) CORPORATE & PLACEMENT MEETS – 2024

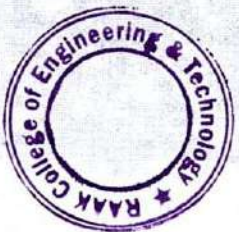
<p><b>PLACEMENT OFFICER'S MEET on 11<sup>th</sup> Feb 2023</b></p>	<p><b>BRIDGE Conference 2023 and bridge the gap between industry and academia 14<sup>th</sup> march</b></p>
<p><b>2023 CORPORATE EVENT ON INDUSTRY AND INSTITUTE CONNECTS - 23 March 2023</b></p>	<p><b>2023 CORPORATE EVENT ON INDUSTRY AND INSTITUTE CONNECTS - 23 March 2023</b></p>
<p><b>Dr. S. SEENUVASAMURTHI, M.E., Ph.D.</b>  <b>PRINCIPAL</b>  <b>RAAK College of Engineering &amp; Technology</b>  <b>No.1, Muthupillai Palayam Road,</b>  <b>Sulthanner Post,</b>  <b>Madhavaram - 605 110</b></p>	<p><b>Dr. N. Sowri Raja Pillai .</b>  <b>RAAK College Of Engineering And Technology</b></p>

**CATEGORY-II**

**1.2) COLLEGE WEBSITE UPDATION**



**1.3) CHARITY - BUDS OF HEAVEN WITH STUDENTS**



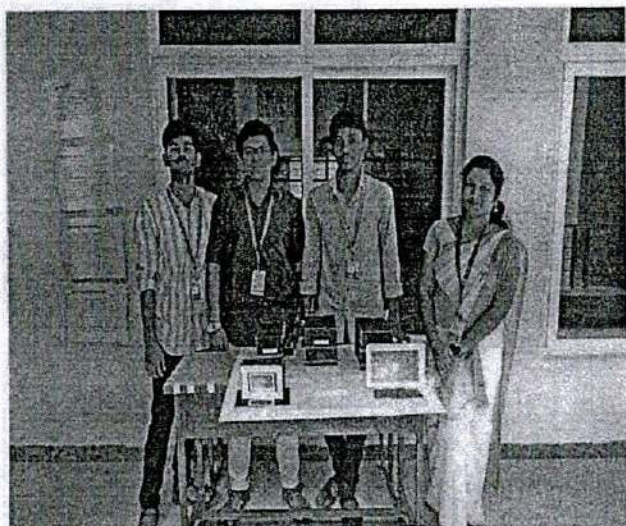
**Dr. S. SEENUVASAMURTHI, M.E., Ph.D.**  
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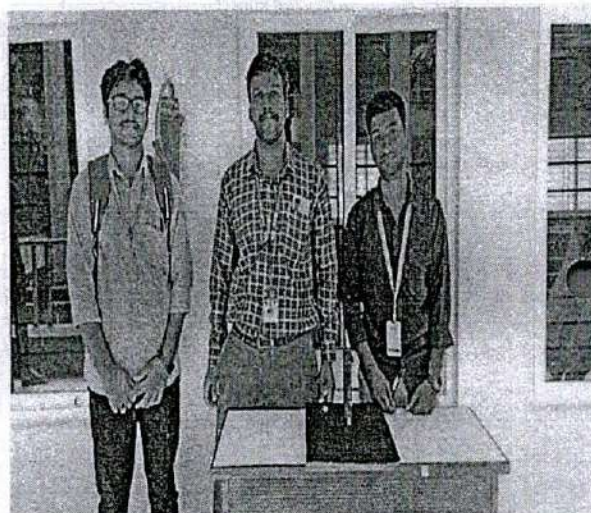


12

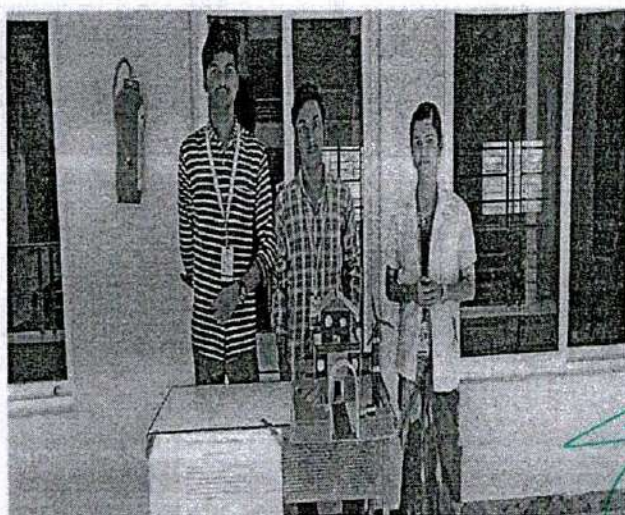
2 (f) PROJECT DEMO FOR ORIENTO 4 PROJECTS



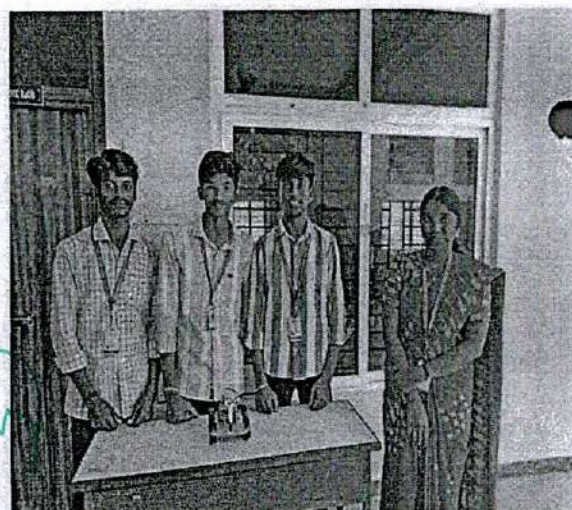
E-MAIL PROCESSING MODEL



EARTH QUAKE DETECTOR



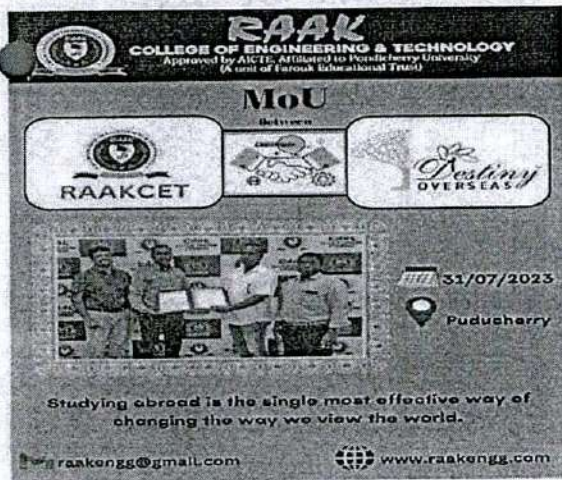
LASER SECURITY ALARM



SIMPLE ROBOT



Dr. Kamatchi and Dr. Sankari M,  
 Sathyabama Institute of Science & Technology  
 Guest Lecture on Machine Learning in Python  
 On 15<sup>th</sup> of Sept, 2023.

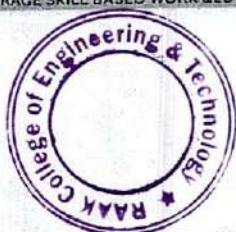


On the 31st of July, 2023, a significant  
 Memorandum of Understanding (MoU)  
 was formalized between RAAK College of  
 Engineering & Technology (RAAKCET) and  
 Destiny Overseas, Puducherry.



On the 21st of Sept, 2023, a significant  
 Memorandum of Understanding (MoU)  
 was formalized between RAAK College of  
 Engineering & Technology (RAAKCET) and  
 Vande Mataram students service society,  
 Puducherry.

*(Handwritten signature in blue ink)*  
**S. SEENUVASAMURTHI, M.E., Ph.D.**  
**PRINCIPAL**  
 College of Engineering & Technology  
 Muthupillai Palayam Road,  
 Sulthanpet Post,  
 Puducherry - 605 110



# RAAK COLLEGE OF ENGINEERING & TECHNOLOGY

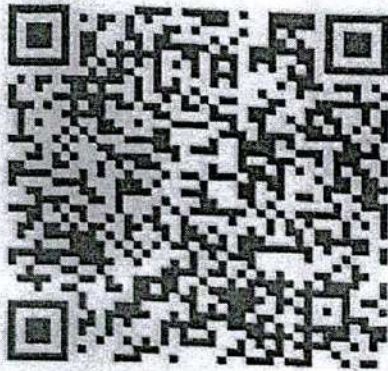
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9



## DEPARTMENT OF INFORMATION TECHNOLOGY

### SEMESTER WISE NOTES



THIRD SEMESTER



FOURTH SEMESTER



FIFTH SEMESTER



SIXTH SEMESTER



SEVENTH SEMESTER



EIGHTH SEMESTER

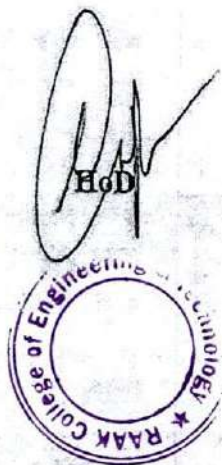
Dr. S. SEENUVASAMURTHI, M.E., Ph.D.

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5.	Ms. B. VASANTHI, Assistant Professor / IT	JAVA PROGRAMMING	30	28	02	93%
		INFORMATION CODING TECHNIQUES	18	17	01	94%
		JAVA LAB	30	30	NIL	100%
6.	Mr. S. RAMACHANDRAN HOD/S&H	MATHEMATICS-IV	30	25	05	83%
7.	Mrs. H. RAJESWARY Assistant Professor /ECE	COMMUNICATION ENGINEERING-I	30	30	NIL	100%
8.	Ms. B. ABINAYA Assistant Professor /ECE	MICROPROCESSORS AND MICROCONTROLLERS	30	30	NIL	100%
		MICROPROCESSORS AND MICROCONTROLLERS LAB	30	30	NIL	100%
9.	Mrs. D. THAMIZISAI Assistant Professor /CSE	ARTIFICIAL INTELLIGENCE	18	17	01	94%



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Handwritten signature of the Principal and the word PRINCIPAL.

PRINCIPAL



# RAAK COLLEGE OF ENGINEERING & TECHNOLOGY

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## DEPARTMENT OF INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION RESULT ANALYSIS -Nov/Dec'2022 (Jan' 2023)

### FACULTY PASS PERCENTAGE ANALYSIS

Sl. No	Name of the Faculty	Subjects Handled	No. of Students Appeared	No. of Students Pass	No. of Students Fail	Pass Percent age
1.	Dr. N. SOWRI RAJA PILLAI HOD / IT	SOFTWARE PROJECT MANAGEMENT	17	17	NIL	100%
		E-COMMERCE	44	44	NIL	100%
		PROJECTWORK PHASE-II	44	44	NIL	100%
		COMPREHENSIVE VIVA VOCE	44	44	NIL	100%
2.	Ms. G. DEEBIKA, Assistant Professor / IT	DESIGN AND ANALYSIS OF ALGORITHMS	30	29	01	97%
		USER INTERFACE DESIGN	17	17	NIL	100%
		ALGORITHMS LAB	30	30	NIL	100%
		MINI PROJECT	19	19	NIL	100%
		PROFESSIONAL ETHICS	44	44	NIL	100%
3.	Mr. G. DHANAPATHY, Assistant Professor / IT	SYSTEM SOFTWARE	30	30	NIL	100%
		COMPUTER NETWORKS	19	17	02	89%
		DISTRIBUTED COMPUTING	44	44	NIL	100%
		COMPUTER NETWORKS LAB	19	19	NIL	100%
4.	Ms. S. MADUVANTHI, Assistant Professor / IT	WEB TECHNOLOGY	19	18	01	94%
		WEB TECHNOLOGY LAB	19	19	NIL	100%



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5.	Ms. B. VASANTHI	OBJECT ORIENTED PROGRAMMING	31	31	-	100%
		DATA BASE MANAGEMENT SYSTEMS	19	19	-	100%
		CRYPTOGRAPHY AND NETWORK SECURITY	44	44	-	100%
		DATA BASE MANAGEMENT SYSTEMS LAB	19	19	-	100%

  
HoD

  
PRINCIPAL



  
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# RAAK COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, Affiliated to Pondicherry University)

## DEPARTMENT OF INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION RESULT ANALYSIS -Nov/Dec'2022 (Jan' 2023)

### FACULTY PASS PERCENTAGE ANALYSIS

Sl. No	Name of the Faculty	Subjects Handled	No. of Students Appeared	No. of Students Pass	No. of Students Fail	Pass Percentage
1	Dr. N.SOWRI RAJA PILLAI HOD / IT	SOFTWARE TESTING	19	19	-	100%
		SOFTWARE ENGINEERING	43	43	-	100%
		PROJECTWORK PHASE-I	43	43	-	100%
		SEMINAR	43	43	-	100%
		INDUSTRIAL TRAINING / INTERNSHIP	43	43	-	100%
2	MS. G.DEEBIKA AP / IT	DATA STRUCTURES	31	29	02	93.5%
		THEORY OF COMPUTATION	19	19	-	100%
		MANAGEMENT CONCEPTS AND STRATEGIES	43	43	-	100%
		ALGORITHMS LAB	19	19	-	100%
3.	Mr. G. DHANAPATHY AP / IT	COMPUTER ORGANIZATION	31	30	01	96.7%
		COMPUTER HARDWARE AND TROUBLESHOOTING	19	19	-	100%
		MOBILE COMPUTING	43	41	02	95.3%
		MOBILE COMPUTING LAB	44	44	-	100%
4.	Ms. S. MADUVANTHI AP / IT	OPERATING SYSTEMS	19	16	03	84.2%
		WEB SERVICES AND XML	44	42	02	95.4%
		OPERATING SYSTEMS LAB	19	19	-	100%
		WEB SERVICES AND XML LAB	44	44	-	100%




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4

Section	Brief Contents	Duration
	Practical-3. Write some Good Ideas about Social Work.	1
	Practical-4. Group discussion on any of the topic on personality.	1
	Practical-5. Mock events/ competitions.	1
	Practical-6. Extempore speech on any subject/ topic.	1
	Practical-7. Personality building exercises, Yoga, Physical activities, - Humour	1
	Practical-8. Collect some thoughts about Motivation write it down on Drawing Sheet in Bold Letters	1
	Practical-9. Collect Information about Good Books for Motivation read carefully & collect Good Thoughts	1
	Practical-10. Discussion with Teacher on Positive Attitude	1
	Practical-11. Collect new & statics of e-waste from news papers.	1
	Practical-12. Deminstration and application of First aid techniques,	1
	Practical-13. Demo and practice of CPR technique.	1
	Practical-14. Waste management, practice of segregation, disposal methods.	1



  
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**CHM-O level  
H5: Personality Development**

**40 Hours**

**Course Prerequisites:**

Student should be prepared for changing some habits, attitudes, beliefs and outlooks etc.

**Learning outcome of the Course**

Student will be capable for performing better in their roles as leader/ manager/ well behaved/ well mannered personality in their future.

**Course details**

Section	Brief Contents	Duration
Personality Development	Self Awareness, Self-analysis, Self-disclosure, Personality ,Attitudes, Perceptions Building Positive Personality, Habits, Personal Grooming (Dressing Well) & Etiquettes Health and Hygiene, Body Language	5
Self Esteem and Stress Management	Poor Self-Esteem vs. Healthy Self-Esteem, Consequences of Low Self-Esteem, Steps to Better Self-Esteem, Self Efficacy, Self-motivation, Time management, Stress Management, Job Demands, Job Security, Relations With Your Supervisor And Co-Workers, Emotional Component- Factors That Determine Our Attitude, Types of Attitude, Etiquette	9
Communication	Introduction to Communication Classification Of Communication, Verbal & Non-Verbal, Purpose, Process, Elements, Effective Communication, Major Difficulties In Communication, Barriers To Communication, Successful Communication Written Communication, Letter Writing, Report Writing, E-Mail Oral Communication, Public Speaking Skills, Presentation Skills Group Discussion, Personal Interviews, Communication Skills Non-Verbal Communication, Assertiveness (Ability To Express Yourself), Body Language	10
Emergencies and management	Health emergencies, first aid, electric shock, protection from electricity, other emergencies and management in emergencies.	5
Environmental Studies viruses	Polution, types, disadvantages of polution and how to reduce.waste Management, Solid waste, liquid waste, harmful waste and e-waste .Means for improving environment, spyware, virus signatures , how antivirus works, concept behind Virus prevention and removing, various Antivirus programs and installation, difference between virus removal and quarantine, introduction to zero day/zero hour attacks, no single antivirus is perfect	5
Practical's	Practical-1. Write about Possitive personalities.	1.5
	Practical-2. Write about your Good or Bad Habbits.	1.5



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**CHM-O level**  
**H1: PC Hardware & Components (Duration 60 Hours)**

**Course Prerequisites:**

Basic electricity and digital electronics, basic knowledge about the computer systems ( ) n with/ without working units) will be an added advantage.

**Learning outcome of the Course**

On completion program the students will be able to understand the fundamentals of Hardware, handling, testing & troubleshooting of personal computer problems.

**Course details**

Section	Brief Contents	Duration
PC hardware	The PC hardware consisting input, processing and output sections and basic building components. Introduction to computer hardware components of mother boards, CPU, chip-set, various ports, slots, connectors, addon cards, etc., Protection of PC hardware, anti static wrist band, protection and safety devices.	6
Primary Memory	ROM,PROM, EPROM, EEPROM, L1, L2 RAM, types of memory, static, dynamic, DRAM, SDRAM, DDR2, DDR3. Virtual memory, Cache memory, Linear & Physical memory, video memory.	6
Secondary storage	HDD like IDE, SATA, e-SATA, SCSI, Introduction to HDD controllers like SCSCI controllers and RAID controllers their requirement and configuration. Backup devices magnetic tape drives, UBS Pen-drives, External HDDs, CDROM, CDRW, DVD, Blue-Ray Discs, etc.	6
Power Supply	Switched Mode Power supply block diagram, working principles, testing and troubleshooting, power rating, requirement of SMPS wattage depending parameters like processor, HDDs used, etc.	6
Cabinet types	Various types of cabinets of PCs & it's handling, servers, gaming PCs. Introduction to server cabinets, Rack mount and blade servers.	6
Practical's	Practical-I (Hardware Components Identification): Identify and handling of Internal components in the PC Cabinets like SMPS and its connection to Motherboard and various devices, Motherboard, CPU, Chipset, Slots, Memory modules, memory slots, Hard Disc Drives, CDROM/DVD/Blue-Ray Disc, etc.	5
	Practical-II (System Integration) : Assembly of PC using various parts, Interconnection between devices, cable polarities and connections, SMPS installation and power connection. Various types of Add-on Cards, Motherboard slot and their application.	5
	Practical-III (OS and Application Software Installation) : Multiple HDD installation and creation single large volume out of it. Installation of Operating System like Windows7, Windows8, Windows 2008, various Linux flavors like Ubuntu, SUSE, RedHat, Introduction to VMware Virtualization etc.	10
	Practical-IV (Troubleshooting) : Troubleshooting of various hardware problems like SMPS failure, Display not there, missing OS or re-installation of user software or system software. CDROM, DVD lens cleaning or replacement, CMOS setup, Battery replacement on motherboard in case BIOS is not retaining correct values. Driver software Downloading and installation, Antivirus Software installation, scanning for viruses, removing .tmp files from WINDOWS machine, etc	10



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CATEGORY-III: RESEARCH, PUBLICATIONS & ACADEMIC CONTRIBUTIONS				
1	Research Papers published in Journals:			
	MEDICAL - CYBER PHYSICAL SYSTEM : A DIGITAL HEALTHCARE SOLUTION			
1	Vol.8, Issue 12, page no.b727-b732	15		26
2	Hybrid User Acceptance Test Procedure to Improve the Software Quality, Vol. 19, No. 6, November 2022 p.95	15		27
4	Reviewer			
	REMOTE SENSING IMAGES FOR WATER QUALITY MONITORING BASED ON DEEP LEARNING MODEL: A SURVEY, Ref: Ms. No. MEASEN-D-23-00199R1 – REVIEWER ELSEVIER.	10		28
2	Research Projects, Consultancies and Assignments - online exams			
	AFCAT	10		
	CUET	10		
	AMIRTHA	10		
	TOEFL / GRE	20		
4	Filing & Award of Patents			
	AI enabled energy management control techniques for fuel cell based Electric vehicle 17-03-2023	30		28
	Method and System for Automated Plagarism Detection Using Artificial Intelligence and Deep Learning 01-09	30		29
4.1	Training Courses, Teaching-Learning-Evaluation Technology, Faculty Development Programmes			29-30
1	Placement Training – Google Certification	30		
2	Placement Training – Aptitude & JAVA	30		
3	Webinar on Intellectual Property	10		
4	Seminar about the Web Development	10		
5	Guest lecture on the Power of Homeopathy	10		
6	Guest Lecture on Machine Learning in Python	10		
7	IBM certification on Project management	10		
8	IBM certification on Data Science	10		
	<b>CATEGORY- III TOTAL</b>	<b>270</b>		
<b>CATEGORY-IV: STUDENT EXPERIENCE &amp; FEEDBACK</b>				
1.1	Student Experience related Activities			31 to 32
1	G-20 Painting Competition 28/02/23	5		
2	AKAM – Story Writing 30/03/23	5		
3	G-20 Crossword Competition 05/04/23	5		
4	AKAM – Quiz Competition	5		
5	G-20 Song Creation, Dance & Tableau	5		
6	TECHASTRA – Students Association with Activities	5		33
7	Pongal Festival	5		34
8	Ayudha Pooja	5		34
9	Sports day	5		34
1.2	Student Attrition			
2	Between 1%- 3%- 5	5		
1.3	Student Feedback			
1	Aggregate % of Student Feedback (75% and above)	25		
	<b>CATEGORY- IV TOTAL</b>	<b>76</b>		

TOTAL I (145) + II (75) + III (270) + IV (75)	565
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**Puducherry - 605 110**

CATEGORY-II: CO-CURRICULAR, EXTENSION & PROFESSIONAL DEVELOPMENT			
1.1	Positions held/Leadership role played in organization linked with Extension Work		
	1 Head of the Department -IT	5	
	2 Training & Placement Officer	5	
	3 AISHE, NISP, PARAKH, NIRF, ARIIA, IIC & KAPILA Co-ordinator - HEAD	5	
	4 Panel Member - Faculty Recruitment	5	
1.2	Contribution to campus publications for internal newsletter/blog/Magazine		
	1 COLLEGEWEBSITE Update -co-ordinator	10	15
1.3	Community work such as values of National Integration...		
	Charity - Buds of Heaven with students	2.5	15
MAXIMUM AGGREGATE LIMIT		15	
2.2	Seek feedback from industry on skill requirements / trends		
	Vanakkam HR - TPO Meet -11th February 2023 (Chennai)	5	16
	Bridge Conference - Industrial Opportunities - 14th March 2023 (Chennai)	5	16
	Imagine Meet - Industry Institute connects - Chennai - 23rd March 2023	5	16
		15	
2.3	Generate industry co-sponsorship in academic collaborations		
	Our Shoulders Foundation - Google - Coordinator	5	5 17
2.5	Student Placements		
iv	Leverage Professional Network - MOU's		17 to 18
	MOU-Edureka on 14 <sup>th</sup> February 2023	2	
	MOU-S-Net Solutions on 15 <sup>th</sup> February 2023	2	
	MOU-eSourceIT on 18 <sup>th</sup> May 2023	2	
	MOU-Whirlpool on 25 <sup>th</sup> May 2023	2	
	MOU-Destiny Overseas on 31 <sup>st</sup> July 2023	2	
vii	Organizing fairs		19 to 24
	Campus Drive - Straive - 1 <sup>st</sup> March 2023	2	
	Campus Drive - Lumina Datamatics - 3 <sup>rd</sup> March 2023	2	
	Campus Drive - Li Creative - 14 <sup>th</sup> March 2023	2	
	Campus Drive - Integra - 20 <sup>th</sup> March 2023	2	
	Campus Drive - Gestamp - 4 <sup>th</sup> April 2023	2	
	Campus Drive - Sigit Spectrum - 4 <sup>th</sup> April 2023	2	
	Campus Drive - VWR - 11 <sup>th</sup> May 2023	2	
	Campus Drive - Odoo - 13 <sup>th</sup> May 2023	2	
	Campus Drive - Saehan Stamping - 15 <sup>th</sup> May 2023	2	
	Campus Drive - Lucas TVS - 16 <sup>th</sup> May 2023	2	
	Campus Drive - SNY Autotech - 20 <sup>th</sup> May 2023	2	
	Campus Drive - eSourceIT - 26 <sup>th</sup> May 2023	2	
	Campus Drive - Flexus - 29 <sup>th</sup> May 2023	2	
	Campus Drive - Whirlpool - 2 <sup>nd</sup> June 2023	2	
	Campus Drive - Sri Sai power - 28 <sup>th</sup> November 2023	2	
	Campus Drive - Sutherland - 30 <sup>th</sup> November 2023	2	
MAXIMUM AGGREGATE LIMIT		20	
2.6	Alumni Engagement		
	Alumni Talk - Video	2	2
	Alumni - Google Reviews	2	2
2.7	Membership and measurable contribution to committees		
	1 Discipline	5	
	2 Governing Body	5	
	3 Admission	5	
	4 Anti-ragging	5	
MAXIMUM AGGREGATE LIMIT		15	
MAXIMUM AGGREGATE LIMIT		59	
3.1	Membership in profession related committees at state and national level		
	1 SESD - Society for Environment and Sustainable Development (Lifetime Member - National)	5	18
3.2	Participation in subject related associations, conferences		25
	1 Workshop on Digital creativity skills - Adobe	2	
	2 FDP - Machine learning and Its Real time applications - 06/March/23 to 10/March/23 - MVIT	2	
	3 National Seminar - Awareness and attitude towards cryptocurrencies in India - IPET - 10/March/23	2	
	4 National Seminar - 2 days - 23 and 24th/March/23	2	
	5 National Seminar - Industrial IOT and Digital twins for a smart factory - 22/April/23	2	
	6 IIC Regional meet - Chennai - Poster Presentation - 31/Jan/23	2	
MAXIMUM AGGREGATE LIMIT		10	
CATEGORY - II TOTAL (15+59+10) - 84			75
MAXIMUM AGGREGATE LIMIT			75



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**TECHASTRA EVENTS 2022-2023**

EVENT NAME	DATE	PHOTO
CLIP SHOT	28/03/2023	
MIRROR CODER	22/11/2022	

CRYPTO MIND	04/04/2023	
SHERLOCK	14/03/2023	
STAGE BREAKERS	24/11/2022	

PRÉSENTÉ	16/03/2023	
ADS SAVVY	12/11/2022	
HUNT HARD	14/03/2023	



BRAIN BATTELS	27/12/2022	
LINKED IN	16/03/2023	
FACE ART	27/10/2022	

OS WAR	06/04/2023	
QUERY PRO	30/11/2022	
TECHIES BLOG	15/11/2022	

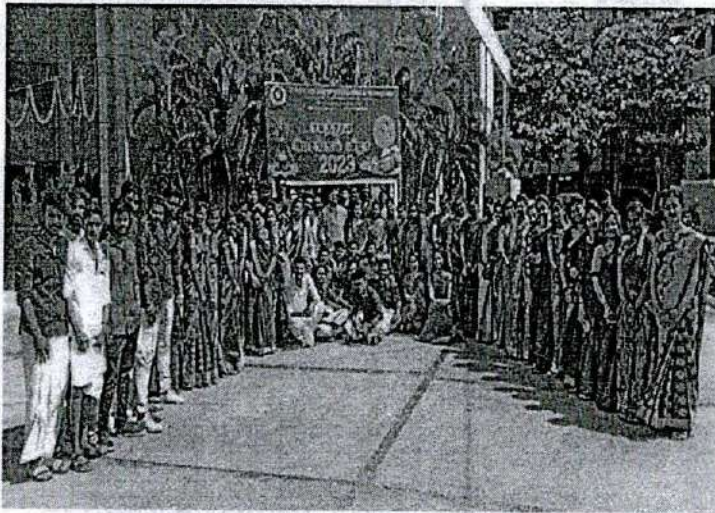
RECLAIMER	18/11/2022	
RAMPER	30/03/2023	
IQUICKER	04/04/2023	



*Shrin*  
**Dr. S. SEENUVASAMURTHI, M.E., Ph.D.**  
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PIXEL MASTER	28/03/2023	
VOICE OUT	06/04/2023	

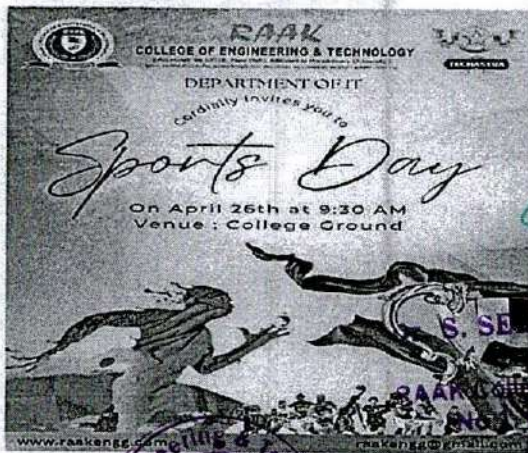
PONGAL FESTIVAL



AYUDHA POOJA



SPORTS DAY



FAREWELL



*S. S. NUVASAMURTHI*  
**S. S. NUVASAMURTHI**  
 PRINCIPAL  
 College of Engineering & Technology  
 Muthupillai Palayam Road  
 Sulthanpet Post,  
 Puducherry - 605 119





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Recognized under section 2(f) & 12(B) of UGC Act- 1956.

Recognized Research Centre of Anna University (ECE).

IFET Nagar, Gangarampalayam, Villupuram - 605 108. Website: www.ifet.ac.in



## SERB SPONSORED TWO DAYS NATIONAL LEVEL SEMINAR ON

## MACHINE LEARNING AND IOT POWERED SMART APPLICATIONS

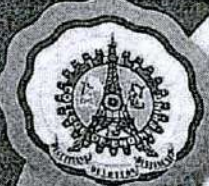
### Certificate of Participation

This is to certify that Dr/Mr/Ms N. SOWRI RAJA PILLAI, Associate Professor  
RAAK College of Engg. & Technology has actively participated in the two days National  
Level Seminar on "Machine Learning and IOT Powered Smart Applications"  
organized by Department of ECE and IT, IFET College of Engineering,  
Villupuram on 23<sup>rd</sup> and 24<sup>th</sup> March 2023.

*R. Senthil Kumar*  
Convener

*P. Hemalatha*  
HoD

Principal



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IFET Nagar, Gangarampalayam, Villupuram - 605 108. Website: www.ifet.ac.in



## ICSSR SPONSORED ONE DAY NATIONAL LEVEL SEMINAR ON

## "Awareness and Attitude Towards Cryptocurrencies in India"

### Certificate of Participation

Indian Council of  
Social Science Research

This is to certify that Dr/Mr/Ms N. SOWRI RAJA PILLAI, ASP/IT  
RAAK COLLEGE OF ENGINEERING & TECHNOLOGY has actively participated in the One Day National  
Level Seminar on "Awareness and Attitude Towards Cryptocurrencies in India"  
Organized by Department of Electronics and Communication Engineering,  
IFET College of Engineering, Villupuram on 10<sup>th</sup> March 2023.

*S. Seenuvasamurthi*  
Convener

*S. Seenuvasamurthi*  
PRINCIPAL

RAAK College of Engineering & Techno  
No.1, Muthupillai Palayam Road,  
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## OVERALL PLACEMENT DETAILS - Batch 2022-2023

SL.NO	DATE	NAME OF THE COMPANY	DEPARTMENT	NO. OF STUDENTS PLACED	TOTAL NO OF STUDENTS PLACED	PHOTOS
1.	01.03.2023	STRAIVE	IT ECE CSE	5 4 3	12	
2.	03.03.2023	LUMINA DATAMATICS	ECE EEE CSE	2 3 10	23	



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RAAK College of Engineering & Technology  
No.1, Muthupillai Palayam Road,  
Suthampet Post,  
Puducherry - 605 110



**PERFORMANCE APPRAISAL**  
**(NON TEACHING STAFF)**



# RAAK

## COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)

An ISO 9001:2015 Certified Institution

### FAROUK EDUCATIONAL TRUST

### Performance Appraisal Form for Non-Teaching Staff

#### Section A – General Information

- 1) Name :
- 2) DOB & Age :
- 3) Designation :
- 4) Department :
- 5) Date of Joining :
- 6) Marital Status :

7) Appointments held prior to joining this institution:

Designation	Name of the employer	Date of joining	Date of leaving	Reason for Leaving

8) Academic Qualification :(From UG)

Examination	Name of Board/University	Year of Passing	% of Marks obtained	Division/Class/Grade



*[Signature]*  
 DR. S. SURESH VASAMURTHI, M.E., Ph.D.  
 PRINCIPAL  
 RAAK College of Engineering & Technology  
 No.1, Muthupillai Palayam Road,  
 Sulthanpet Post,  
 Puducherry - 605 110



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9) Details of Administrative Training Programs attended in the past one year:

Name of the Programme	Place where held	Name of the Organising Body	Dates/Duration	Remarks

10) Please give a short account of your contribution to: **(Previous Two Semester)**

a) College:


b) Students Welfare:

11) Any outstanding contribution made by the Employee:

12) Other Relevant Information/Awards, Recognition received: **(Previous Two Semester)**

Sl.no	Details (year, type, Value, Etc..)	Remarks



  
Dr. S. SEENUVASAMURTHI, M.E., Ph.D.  
PRINCIPAL  
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### Section B – Rate your Performance

1=Never, 2=Not often, 3=Sometimes, 4=Usually, 5=Almost always

S.N.	Attributes	Self	AO	Principal
1	I am fair with all students.			
2	I am perceptive to the needs of the student, faculty and institution.			
3	I reach the college on time.			
4	I like it when students and faculty ask any details at any time.			
5	I take leave only with prior permission of my Administrator.			
6	I positively respond to any instruction, guidance, correction and discipline by my superiors.			
7	I involve in promotion of the brand image of the College.			
8	I maintain records for academic details properly with updates.			
9	I maintain my workplace clean and neat.			
10	I am proficient with the rules & regulations relevant to students and staff of the College.			
	<b>Total</b>	<b>/50</b>	<b>/50</b>	<b>/50</b>
	<b>Converted to 10%</b>	<b>/10</b>	<b>/10</b>	<b>/10</b>

To the best of my knowledge, the information given by me is true and correct.

Date:

Signature of the Employee



**Dr. S. SEENUVASAMURTHI, M.E., Ph.D.**  
**PRINCIPAL**

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### FAROUK EDUCATIONAL TRUST

### Performance Appraisal Form for Non-Teaching Staff

#### Section A – General Information

- 1) Name : Banupriya . A  
2) DOB & Age : 26.05.1990 & 34 yrs  
3) Designation : Office Assistant  
4) Department : office  
5) Date of Joining : 23.11.2021  
6) Marital Status : Married

7) Appointments held prior to joining this institution:

Designation	Name of the employer	Date of joining	Date of leaving	Reason for Leaving
OA	christ clg	11.5.20	25.9.22	Family

8) Academic Qualification :(From UG)

Examination	Name of Board/University	Year of Passing	% of Marks obtained	Division/Class/Grade
BA	Puducherry University	2012	70%	1 <sup>st</sup> Grade



*[Signature]*  
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9) Details of Administrative Training Programs attended in the past one year:

Name of the Programme	Place where held	Name of the Organising Body	Dates/Duration	Remarks
Technical Innovation	VRS	VRS College of Engina	18/2/24 <sup>3day</sup>	
PowerPoint Presentation	Smvc	Puducherry	29/2/24	

10) Please give a short account of your contribution to: (Previous Two Semester)

a) College:

work effectively.

b) Students Welfare:

Well Planned activity.

11) Any outstanding contribution made by the Employee:

Admission work.

12) Other Relevant Information/Awards, Recognition received: (Previous Two Semester)

Sl.no	Details (year, type, Value, Etc..)	Remarks



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