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Performance Based Appraisal System (PBAS) for Assistant Professors As per UGC Guidelines 2010 For the period 2023 to 24 Summary Sheet

Name of the Faculty: P. Tarun Noga Venkatesh Department: Mechanical Engineering

S.No.	Evaluation parameter	Max API Score	Minimum Score required	Self-Score	DFAC Score	IASC Score
1	Service in the College	50		50	50	50
2	Curricular Activities	600	****	475	47	475
3	Co-Curricular Activities	100	****	30	30	30
4	Research &Development	150	30	40	20	20
5.	Administrative and Extra-curricular activities	100		58	28	5%
Total		1000	550	653	633	633

Signature of Faculty		Colum				
Signature(s) DFAC members	1	Pasul	2	X	3	W-=
Signature(s) of IASC members	1	Quelley	2	1. Lat 124	3 5	S STI GOUN

Note: Each item should have supporting document submitted by the faculty.

PART - A Service in the College

Maximum API Score:: 50

Pare	onal I	Later	

1.	Name	P. Tanun Naga Venkatesh
2.	Present Designation	Assistant Professor
3.	Name of the Department	Mechanical Engineering.
4.	College level administrative post (if any)	
5.	Employee Identification Number	MEC13
6.	Date of Appointment to the present post	27/11/2019
7.	Date of birth	17 07 1994
8.	Address	SGR Towers, Salipet moad, Pornanki
9.	Contact details	E-mail : tarun mesrkit Ogmail com Mobile : \$500730551

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2 Educational qualifications (starting from degree):

Programme	Period of study	University	Marks/CGPA	Class obtained
M-Tech	2017-19	KLEF	9.8	First
B.Tech	2011-15	KLU	7.1	First

3 Experience (starting from present position):

S.No.	Designation	Institution	From	To	
1.	Assistant Professol	SRKIT	27 111 2019	Till date	
	51		1 1 1 1 1 1 1 1		
-					

PART-B
PART I – Curriculum Activities

Maximum API Score: 600

1.1. Teaching weekly load allotted by the department as per time table

Semester-1		Semester-	Semester-II		
Name of the course	Weekly Load	Name of the course	Weekly Load	Total load	of weekly load
EMHM	G	MMS	6	12	6
FEV	6	HT	6	12_	6
TE labo	3	Workshop lab	6	9	5
Norkshop lab	3	EG	6	9	5
		Total load			42

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.1	70	70	70	70

1.2. Total lecture periods taken in the previous two semesters

Semester-I			Semester-II			
Name of the course	T/P	Score	Name of the course	T/P	Score	
FMHM	62/63	29.5	MMS	55/57	28.9	
FEV	60/60	30	TH	65/65	30	
TElab	33/33	30	Workshop lab	39/39	30	
Average score of sen	nester-I	29.8	Average score of sem	ester-II	29.6	
Final score = Averag		o semesters	29.7		Contraction in	

T: Number of lectures taken as per concerned course attendance register

Score = T/P * 30

Score details for Score Score

P: Number of lectures proposed in the concerned course lesson plan



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1.3. Course files (All the claimed contents should be available in the course file)

	74077	Weightage	Maximum	Seme	ster-I	Seme	
.No	Contents of course file	points per course per semester	points per semester	Course Name FMHM	Course Name FEV	Name MMS	Course Name HT
1	Syllabus page	0.5	2	0.5	0.5	0.5	0.5
2	Lesson plan	1	4	1	1	1	-1
3	Lecture Notes	3	12	3	3	3	3
4	Question bank (Unit wise)	2	8	a	2	a	2
5	Internal examination question papers with CO mapping	1	4	١	1	1	1
6	Internal examination marks copy	0.5	2	0.5	0.5	0.5	0.5
7	Internal examination CO, PO assessment	2	8	a	2	2	2
8	End Semester results copywith Analysis	1	4	1	1	1	1
9	End semester examination CO, PO assessment	2	8	2	2	a	a
10	Improvements to be brought in next time course delivery	1	4	1	1	1	1
11	Assignment questions with CO mapping	1	4	1	1	1	1
12	Course End Survey evaluation	1	4	1	1	1	1
13	Scheme of evaluation for end semester examination	3	12	3	3	3	3
14	Any other (with approval of IASC)	1	4	20	1	1	1
Max	Maximum points 20 80				20	1 30	20
Tota	l of Semester-I &Semes rage of Semester-I &Se			1 2 3	40	0	0

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.3	80	40	40	40,0

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1.4. External examination invigilation / evaluation duties

Nature of the Duty Performed	Points Number of duties per duty performed		Total number of	Total points	
		Semester-I	Semester-II	duties performed	HANN MAN
External examination answer sheets evaluation	5	1	1	2	10
External examination invigilation	1	4	4	8	8
Lab external examination examiner	5	1	1	2	10
Seminar Internal examiner	5				
Mini Project- Internal examiner	5				
Major Project - Internal examiner	5				
Term Paper - Internal examiner	5				
Any other works*	1			Total points	28

^{*}Any other works related to external examination with approval of IASC

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.4	20	15	15	

1.5. Internal examination invigilation / evaluation duties

Nature of the Duty Performed	Points per duty			Total number of	Total points
1410.1110		Semester-I	Semester-II	duties performed	
Internal descriptive examination answer sheets evaluation	1	4	4	8	8
Internal objective examination answer sheets evaluation	1	0	0	D	0
assignment books evaluation	1	4	4	8	8
Internal examination invigilation	1	10	12	22	22
Lab internal examination examiner	1	a	1	3	PAL.

				SAK INSTITUTE DELICHNOL
Score details for	Maximum score	Self-score	DFAC score	ENIKERSOUTHEAVAVADA-521
1.5	40	40	40	40



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1.6. Use of innovative teaching methodologies

Teaching methodology	Number of points per course per semester	Max. points per semester	Semester- I points	Semester- II points	Average points of two semesters
Power point presentations with own annotations and minimum 10 slides per course per semester	5	10	5	5	5
Visuals (Topic Related own video/simulation created)	5	10		1	
Entire course content uploaded in MOODLE server	10	20			
				Total points	5

Note: All teaching methodology works should be recorded in the teaching diary of concerned course attendance register and proofs should be authorized by HoD.

Score details for	Maximum score	Self-score	DFAC score	IASC score	
1.6	40	25	25	25	

1.7. Remedial classes / Bridge Courses / Content beyond syllabus / Etc.

alls of tieth Semester						Average
Name of the course	No. of classes taken	Semester - I points	Name of the course	No. of classes taken	Semester - II points	of semester- I and semester- II points
FMHM,	10	20	MMS,	10	20	20
-						
						7
FMHM	Concepts	4	нт	Concepts	4	4
-						PAINCIP
AUTOCAD	-20	4 D	-	-		TUNE OF
	FMHM, FEV	Name of No. of the course classes taken FMHM FEV 10 FMHM Concepts	Name of No. of Semester the course classes taken FMHM 10 20 FMHM Concepts 4	Name of No. of Semester the course classes taken FMHM 10 20 MMS, HT FMHM Concepts 4 HT	Name of the course classes taken FMHM, 10 20 MMS, 10 FMHM concepts 4 HT Concepts AUTOCAD -20 4D — —	Name of the course classes taken No. of Semester the course classes taken FMHM, 10 20 MMS, 10 20 FEV HT FMHM Concepts AUTOCAD -20 40 - SARKINST ENIKEPAD



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Details of item		Minimum classes required	Points per class	Maximum points
Remedial classes		5	2	10
Bridge courses		5	2	10
Career oriented course		5	2	10
Content Beyond Syllabus		5 concepts	2	10
Additional experiments designed and conducted beyond curriculum		2 experiments	5	10
Job oriented Certific	cate Courses	10	2	20
Score details for	Maximum score	Self-score	DFAC score	IASC score
1.7	40	30	30	30

1.8. Mentoring with proper records

Item	Semester I	Semester II	Total No. of sessions taken	Points per session	Total score	
No. of counseling sessions done	5	5	10	5	50	

Note: Mentoring record should be in faculty hand writing only. Otherwise don't consider.

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.8	30	30	70	30

1.9 Percentage of passes

1.9 Percentage	Semester - 1		Semester - II				
Name of the	Percentage of	Points per course	Name of the course	Percentage of pass	Points per course		
FMHM	63	30	MM5	100	70		
CEV	90.9	7-0	HT				
Average points of semester-I 5 D			Average points of semester-II 5.5				

Note: Don't include laboratory courses here.

Percentage of	<55%	55-	64.99%	65-74.	99%	75-85%	>85%
pass points	10	30		40		60	70
Score details for	Maxim scor	=3.0	Self-s	core	DF	AC score	IASC score
1.9	70		61		112	60	60/
							SPK INSTITLITE

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1.10. Student feedback on teaching

	Semester - 1		Semester - II			
Name of the		Points per course	Name of the course	Feedback obtained	Points per course	
FMHM	4.5	60	MMS	4.5	60	
FEV	4.1	50	HT	4.5	60	
Average point	s of semester-l	55	AND REAL PROPERTY AND REAL PRO	s of semester-II	60	
Total points =	Average of sem	ester I & II poin	ts = 58			

Note: Feedback for laboratory courses also can be included here

Feedback	< 3	3 to 3.49	3.5 to 3.99	4 to 4.49	4.5 to 5
recupack	10	20	40	50	60
points	10	30	40	50	610

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.10	60	6 D	60	60

1.11 Project Guidance (Mini project / major project / seminar / term paper)

	Semester - I			Semester - II	
	Batch - 1		Batch - 1 Title of Project: Modeling and Halysis of dis		
Title of Project	-		Title of Project:	Vanious mate	yals a bit
Register no's	Grade	Score	Register no's of students	Grade	Score
of students			21X45A0319	A	25
			21X45A0321	A	25
			21X45A0325	A	25
			21X45A0343	A	25
Average sco	re of Batch-1 in semester-1 (B1)		Average score	e of Batch-1 in emester-II (B2)	25
Average score	of batch-1 in ty	vo semesters (S	(B1+B2)/2 = 1	3	
Average score	Batch - 2			Batch - 2	nd conversation
Title of Project			Title of Project	to cure elec	the vehicle
Register no's		Score (S1)	Register no's of students	Grade	Score (S2)
of students			21X45 A0332	N-+	-C-25
			20X41AD303	TA	
		5	20x41A0306		5
		-		30	

P = 20 points if SCI/Scopus paper (journal / conference) published from the work of the project (This publication should not be shown under Part -3)

Project Grade	A+	A	В	C A soon
Points	30	25	20	15 pp 0 (1) (1) (1)
Score details for	Maximum	Self-score	DFAC score	IASC SPAINCIPAL
1.11	50	40	40	SRK INSTITUTE OF TECHNOLO



Total points

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Fitle of the course	Offered Durat		Percentage of marks obtained	Points obtained	Average points one semest	of	Average points of two semesters
	S	emeste	r = 1			9	
_		_	_	- T			
	_						
	Se	emeste	r = II				
	-			-			1
Note: Full course of Points for a course Points for a course	with exam: 30°P without exam: 1:	ercent	on only to cor age of marks o	sidered. obtained			
Score details for	Maximum score	S	elf-score	DFAC sco	re	IA:	SC score
1.12	30		0	1			0
	YE 500		U				0
Title of course(s) : Points: 10 for each Score details for	Maximum		self-score	DFAC sco	ore	IA	SC score
1.13	score 20		20	20			20
1.14 MOU's / Stu	dent Internship	_					
Name & Regd, no. of student received internship through your guidance		1000000	ration of ernship	Amount received student internship	by for	Point	s
21745A0338	Skill Dzir	e :	Imonth	NIL	- 4		
21X45A0341			1 month	NIL			
Total points		-					
Online Internship	(including intern	shala):	5 points per s	tudent (Max.:	20 poi	nts)	
Industry internshi		ints pe	r student (Ma	Amount		Poin	te
Details of MOU	Validity of MOU (Mentio date(s))	n rec	ernships reived through OU	Amount received student internship) internship through Mo	1785a.	roin	. D
				7700			VOI.
				_			1 11.

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Each functional MOU: 10 points

Internship received through MOU: 10 points/student (paid internship only)
Internship received through MOU: 5 points/student (non-paid internship)

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.14	20	15	15	15

Total score of part-I

Item no.	Maximum score	Self-score	DFAC score	IASC score
1.1	70	70	70	70
1.2	30	30	30	30
1.3	80	40	40	uo
1.4	20	15	5	15
1.5	40	40	40	CIO
1.6	40	25	25	25
1.7	40	30	30	30 30
1.8	30	30	70	
1.9	70	60	60	60
1.10	60	60	60	60
1.11	50	40	90	40
1.12	30	0	0	0
1.13	20	20	20	20
1.14	20	15	15-	15
Total score of part-1	600	475	475	1 U35

Part - II Co-Curricular Activities

Max. Score: 100

2.1 Membership of professional societies

Membership offered professional society	Membership number	National / International	Points
		Total points	

Note: International membership=10; National membership=5 points, Don't include online

free memberships.

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.1	10	0	0	0

2.2 Departmental development of facilities

Development of facilities	Details of development undertaken	Semester-	Semester - II	Total score	1
The second secon	n/New Setup OROB		env		MEIPAL OF TECHNOLO
b) Common student fac					AYAWADA-521 1



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Basic Amenities, Seminar/Common Halls etc.		
c) Addition & use of new software		
d) Any Other - authorized by IASC with the approval of Principal		
	Total score	

Principal participant = 5 points per semester; others = 2.5 points per semester

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.2	10	0	0	0

2.3 Attending or organizing various activities:

Conferences / Seminars / workshops/ FDPs / skill development course / certificate courses /

industry training and other similar items

Attended	Da	tes	No of	Title, Place,	Month & year detail	ls	Points
Organized From		To Days					
Crgonized	3/8/2023	14 9 2023	30	Product desig	in using AUTOLI	AD.	
Total point	s						
Score deta	ils for	Maxin	1000	Self-score	DFAC score	IAS	SC score
2.3		30		30	30		30

2.4 Guest Lectures/webinar attended, organized or delivered

Attended	Dat	tes	Title, Place, Month & year details	Points
Organized / Delivered	From	То		
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
			Total points	

a) Guest Lectures Attended - 2 points/lecture;

b) Guest Lectures Organized - 3 points/lecture

e) Guest Lectures Delivered - 10points/lecture(at IIT's, NIT's, govt. universities)

d) Guest Lectures Delivered - 5 points/lecture (at other institutions)

Score details for 2.4	Maximum score	Self-score	DFAC score	IASC score	
	10	O	0	~9° 1	

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	d students on indus Places visited	See Line like			No. of days	Points	
aic(s)	, mees ranes						
					-		
otal points		100					
	oints; More than one	day trip	p: 10 point	5			
Score details for	Maximum		-score	1995	AC score	IASC score	
2.5	10	0)	J	0	0	
2.6 Student tech	nical events organi	ized					
Name of the ever	nt	0.000	Date((s)	Role	Points	
					-	_	
					1		
D 1 (1) D		mainte I	Event coor	linator	5 points Oth	ers: 2.5 points	
Role(s): Departn	ment coordinator: 10 Maximum	points,	Event coor				
Score details fo		Sell		DI	AC score	IASC score	
2.6	10				0	0	
	H 100 8500	70.5		_	U		
		3					
	ovations; Guidance	-	Place	of	Date(s) of	Points	
Details of studer	it innovation		participat	E256	participation	Tomas	
			participat				
	Maximum	S-I	f-score	D	FAC score	IASC score	
Score details for	r score	Sei	1-score	DIAC score		Little score	
2.7	10	0			0	0	
				-			
2.8 Consultanc	v						
Name of the cor	npany to which con	sultancy	provided		Amount	Points	
runie or any re-			ACCOUNTED TO		earned	790120000111	
						0-	
						Line - N	
						K	
< Rs. 25000/-	2.5 points ; 25000	to 50000	0 - 5 poin	ts; 50	000 to 100000	- 7.5 points	
100000 - 10 po			E			The state of the s	
	and pro-	1000	NAME OF THE OWNER OWNER OF THE OWNER OWNE	1			
	Maximum	Se	If-score	D	FAC score	IASC score	
Score details fo		Se	lf-score	D	FAC score	IASC score	

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Total score of part- II

Item no.	Maximum score	Self-score	DFAC score	IASC score
2.1	10	D	0	0
2.2	10	0	0	0
2.2 2.3 2.4 2.5	30	30	30	30
2.4	10	0	-	-
2.5	10	0	-	-
2.6	10	0	_	-
2.7	10	0	-	-
2.8	10	0	-	-
Total score of part-II	100	30	30	30

Part - III R &D Related Contributions

Max. Score: 150 (Min. score required: 30)

3.1 Research Publications

publication

Book / Book chapter (Indexed by SCIE / Scopus / UGC only will be considered)

S.No.	Details of Paper	Indexed by SCIE / Scopus / UGC	Points
	Author(s) names		
	Name of the book / book chapter		
1	Publisher details		
	ISBN no.		
	Page no(s), Month & Year of publication		

Paper publication(s) in journals (Indexed by SCIE / Scopus / UGC only will be considered)

S.No.	A STATE OF THE PARTY OF THE PAR	er er	Indexed by SCIE / Scopus / UGC	Points
Į.	Author(s) names	P.Tarun Maga Venkatesh		
	Name of the paper	Engineering a hybrid Air compressors integrated monitoring System	The second second	9.3
1	Publisher details	IJESR	Scopus	0,00
	ISSN no.	2277 - 2685	10/01	1111 111
	Page no(s), Month & Year of	1-4, Dec 42023	SRK INSTITUTE OF ENIKEPADU, VIJAYA	TECHNO



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Score details for	Maximum score	Self-score	DFAC score	IASC score	
3.1	60	40	20	20.	

3.2 Sponsored Research projects

Details of investigators	 Sanctioning agency	Amount sanctioned / applied	Date of application	Project sanctioned / result awaited	Points
				Total points	

Project amount	Sanctioned (points)	Result awaiting (points)	No. of investigators allowed
More than Rs.20 Lakhs	40	16	5
Rs.10 Lakhs - 20 Lakhs	30	12	4
Rs.5 Lakhs -10 Lakhs	20	08	2
< Rs.5.0 Lakhs	10	04	2
SAGTE projects	10		2

Score details for 3.2	Maximum score	Self-score	DFAC score	IASC score
	40	0	-	

3.3 Conferences / symposia papers presented

Conference proceedings (Indexed by SCIE / Scopus, UGC only will be considered)

S.No.	Details of Paper	Indexed by SCIE / Scopus / UGC	Points
	Author(s) names		
	Name of the paper		
1	Conference details		
Month & Year of conference	Year of		,

Score details for	score .	Self-score	DFAC score	IASC PAINCIPAL
3.3	20	0	S	RK INSTITUTE OF TECHNOLOG NIKEPADU, VIJAYAWADA-521 10



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3.4 Patents

Details of inventors	Title of the patent	Patent registering agency	Month year of	and P patent C	ublished Franted	1	Points
					Total poi	nts	
Score details	for Maximu		elf-score	DFAC	C score		IASC score
3.4	20	77	0	_	-		-

3.5 Incubation center established

Details of incubation center	Month establish	& ment	Year	of	Points

Max points: 10; Principal coordinator: 100%; others (with active participation)=80%

Active Participation as certified by Coordinator and HOD

Score details for	Maximum score Self-score		DFAC score	IASC score	
3.5	10*	0	-	-	

^{*} This section 3.5 can be neglected if you are getting 60 points in section 3.1

3.6 Centre of Excellence established

Details excellence	centre	Month establishr	Year	of	Points

Max points: 10; Principal coordinator: 100%; others (with active participation)=80%

Active Participation as certified by Coordinator and HOD

Score details for	Maximum score	Self-score		IASC score
3.6	10	0	_	-

This section 3.6 can be neglected if you are getting 60 points in section 3.1

3.7 Ph.D related activities

Ph.D. Registered (only for the year in which registered)
 2.5 points

2) Ph.D. Thesis submission (only for the year in which submitted) 5 points

Ph.D. Thesis Awarded (only for the year of award)
 7.5 points

4) If thesis submission and award occur in the same academic year 10 points

Tick relevant number

Score details for	Maximum score	Self-score	DFAC score	IASC score	
3.7	10	D	-	-	

Total score of part- III

	Local Sc	ore or part- III			
Item no.	Maximum score	Self-score	DFAC score	IASC score	
3.1	60	40	20	20	ming
3.2	40	0	-	next 1	(1)
3.1 3.2 3.3 3.4	20	0	-	PHINCIPAL	9
3.4	20	0	- SRK IN	STITUTE OF TECH	NOLOGY
3.5	10*	0	ENIKE	ADD VIJAYAWADA	4-521 108.



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3.6	10*	0	-	-
3.7	10	0		-
Total score of part-III	150	40	20	20

Section(s) 3.5 & 3.6 can be neglected if you are getting 60 points in section 3.1

PART-IV Administrative and Extra-curricular activities

Max. Score: 100

4.1 Departmental Administration

S.No.	Activity	SEM-I	SEM-II	Total points
1.	In-charge of time tables (10 /sem)	10	10	20
2.	Attendance in-charge(10/sem)			
3.	Internal marks in-charge(10/sem)			
4.	Mini / Major Project Coordinator/Review Members		12210	
5.	Exams In-charge (10)			-,
6.	Library in-charge	a.5	2.5	5
7.	Lab In-charge			
8.	Discipline(class teacher)			
9.	Professional Society Related Coordinators (Based on the events conducted)/Department Association			
10.	Module / Course Coordinator			-
11.	Departmental R&D Coordinator			
12.	Media Coordinator			
13.	Departmental News Letter Editor/Members			
14.	ISO (Coordinator)	2.5	2.5	5
15.	manuscript and the second seco			
16.	Alumni Coordinator		-	
17.	NBA/NAAC Participation(10 /sem)	10	10	20
18.	Grievance cell			
19.	Anti-ragging Committee	2.5	2.5	5
20.	Vigilance		15	
21	Programme Coordinator(15 /sem)*	15		15
22	Answer script in-charge		1 2	
23	Induction day			
24	Farewell day			
25	Any Other - authorized by chairman CAS standing committee with the approval of Principal			
			Total points	20.

Each activity = 5 points per year; 2.5 points per sem; Coordinator =100%; others = 50%

Score details for	Maximum score	Self-score	DFAC score	IASC scores
4.1	40	30	30	SRK INCOTUTE OF TECHNOLOG
				ENIKEPADU, VIJAYAWADA-521 10



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4.2 Institutional level administration

S.No.	Activity	SEM-I	SEM-II	Total points
1.	NBA Participation(NBA Common Criteria Preparation Coordinators)	5	5	10
2.	NAAC	5	5	10
3.	Autonomous/Examination Section			
4.	TEQIP Nodal Officers			
5.	R&D Committee Member/Paper Incentive Member			
6.	Maintenance of Central facilities (telephone, internet, electrical, water works, hostel, Sports etc.)			
7.	Career Guidance Cell	5	5	10
8.	Grievance cell anti ragging			
9.	ISO Co-ordinator			
10	Any other such as Hostel Warden etc.,	1		
			Total points	30

Each activity/sem = 5 points; Coordinator=100%; others=50%

Score details for 4.2	Maximum score	Self-score	DFAC score	IASC score
	10	8	6	8

4.3 Institutional Events Organization members, Sports Participants

S.No.	Activity	SEM-I	SEM-II	Total points
1.	Annual day			
2.	Cultural activities	7 = 1 = 5 <		
3.	Sports participation			
4.	Any Other as approved by IASC and by Principal approved			
			Total points	

Fach activity = 5 Points/sem:

Score details for 4.3	Maximum score	Self-score	DFAC score	IASC score
	20	0	-	_

4.4 NSS / NCC / Other Service activities

Any Other as approved by

S.No.	Activity	SEM-I	SEM-II	Total points
1.	NCC / NSS activities			
2.	NSS/ NCC Coordinator(10)			
3.	Women grievance cell activities			0
4.	Health camps			000/
5.	Blood camps			1110098
6.	Service to poor			(pourous)
7.	Service to Disabled			SRK INSTITUTE OF TECHNOLOGY
8.	Charity camps etc.			ENIKEPADU, VIJAYAWADA-521 108
9	Any Other as approved by	50		EMMERADO, TIGATIAN



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IASC and approved	by Principal			
	221 231 1		Total points	-
Each activity = 5 pc	ints/sem			
Score details for	Maximum score	Self-score	DFAC score	IASC score
4.4	10	0	-	

S.No.	Activity	SEM-I	SEM-II	Points
1.	Training and placements- Departmental T&P Coordinator=20 points; others = 10 points	an	೩೮	40
2.	Institute News letter Editorial board: 10 points; ArticleContributors:5 points(From Dept);	O		
3.	Material contribution to news letter/Annual Day Report/House Journal from Department Article Contributors:5 points (From Dept)			
4.	Any Other as approved by IASC and by Principal approved			
			Total points	40

Score details for	Maximum score	Self-score	DFAC score	IASC score
4.5	20	20	20	

Total score of part- IV

	I Otal Sci	re of part- 14		
Item no.	Maximum score	Self-score	DFAC score	IASC score
4.1	40	30	30	30
4.2	10	8	8	8
4.3	20	0	-	-
4.4	10	0	-	-
4.5	20	20	20	20
Total score of part-IV	100	58	58	32

ENIKEPADU, VIJAYAWADA-521 108.

Engineering a Hybrid Air Compressor's Integrated Monitoring System

P.Tarun Naga Venkatesh ', U.Tanoj ', A.Stanly Kumar ',
Assistant Professor ',','
Department of ME
Mail Id: tarunmesrkit@gmail.com, Mail id: tanoj.s5@gmail.com, Mail id: stanlykumar.ande@gmail.com,

Abstract

Based on the refit of the air-compressor control system in a specific Shandong province mine, a hybrid air-compressors integrated monitoring system was designed. Industrial Ethernet is used to build up a communication network that operates on the air pressure concept and the same operating load rate principle. Industrial bus Proving-DP is also supported. In addition, a PC and PLC allow for the local, remote, and network monitoring of a set of three piston air-compressors driven by an inverter and a cooling water circulation system, as well as a set of two screw air compressors controlled by a high-voltage soft starter. The system's ability to automatically adjust air compressor operation in response to changes in input air volume allows for a highly adaptable air supply. Coal mine production safety is now guaranteed, and mechanical wear on the air compressor has been greatly decreased. The distributed control of hybrid air processor group is well-suited to the system and provides tremendous benefit in the energy-saving update of the air compressor group control.

1. Introduction

The mine's pneumatic machinery and primary well unloading equipment rely on an air compressor for their power needs. It consumes around 10% of the mine's entire electrical output and operates nonstop. Its operational dependability and security directly impact production reliability and financial gains. Two screw air-compressors and three piston aircompressors make up the five air-compressors in my mine's air compressor chamber. Its controller is all that's needed to manage two-screw aircompressors, and it measures just a handful of variables. They are uncontrollable from a distance. Because of the grid's and machinery's age, the start current has a significant effect when direct fullvoltage is used at start-up. The voltage of three piston air-compressors was lowered due to the usage of an autotransformer with a high current, a lack of self-protection function, a high failure rate, a huge amount of maintenance, a load-to-unload run time ratio of 10:14, and high energy

consumption. Each group of five air compressors has a water-cooled cooling system and is started and stopped manually. In light of the aforementioned drawbacks of the current air-compressor control system, a hybrid model air-compressors automated monitoring system has been created with the objectives of energy savings and data integration. In addition to saving energy, The air-compressors' primary and auxiliary cooling systems may now be controlled automatically and supplied with air on demand. In order to guarantee the safety of production in coal mines, automation and dependability of the air-supply system have been enhanced.

2. Structures and Features of System Control

2.1. Design of the system

This paper proposes a novel control scheme well suited to hybrid air-compressors. Since screw aircompressors tend to be more reliable, they were chosen as the primary air-supply in this setup, with piston air-compressors serving as a backup. Atmospheric pressure Industrial Ethernet and Provirus-DP Industrial bus were used to build up the communication network, which adheres to the same operating load rate concept. In addition, a PC and PLC allow for the local, remote, and network monitoring of a single high-voltage soft starter for two-screw air compressors, a single inverter for three-piston air-compressors, and a single cooling water circulation system. The air compressors system now offers a more adaptable air supply. The data transfer capacity and open, compatible elements of the network are extensive. Siemens controllers of varying generations are able to communicate with one another and with controllers of other sorts; subsequent devices may also be set up on this network. Ethernet's connection to the enterprise's higher-level data network solves the problem of expanding systems and enables online information exchange. This kind of open communication network construction provides a new manner of distributed control and information management. The automatic monitoring of hybridair-compressors and the equipment digital

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Accredited by NAAC with 'A' grade

CLASS TIMETABLE

SRKIT/ME/10.1

Academic Year: 2023-24

Class: II

Semester: 1

Class Incharge: Mr. U. Tanoj

W.E.F. 02/08/2023

				Section	ıI			-	
Time	9:00 to 9:50	9:50 to 10:40	10;45 to 11:35	11:35 to 12:25	1-1	1:10 to 2:00	2:00 to 2:45	2:50 to 3:35	3:35 to 4:20
Period	1	2	3	4		5	6	7	8
MON	VCFT	FMHM	EITK	PT	H	ком		CAEDP	
TUE	FMHM		PT Lab		LUNCH	КОМ	VCFT	MOS	PT
WED	KOM	PT	VCFT	FMHM	3	MOS		CAEDP	L. Title
THU	MOS		D&M Lab			FMHM	PT	ком	Library
FRI	PT	VCFT	MOS	KOM		FMHM	F	MHM Lab	
SAT	MOS	KOM	VCFT	PT		VCFT	Counselling	FMHM	MOS

Vector Calculus, Fourier Transforms and PDE (M-III)	Mr. K. Basavaraju		
Mechanics of Solids	Dr. A. Stanly Kumar		
Fluid Mechanics & Hydraulic Machines	Mr. P. Tarun Naga Venkatesh		
Production Technology	Mr. U. Tanoj		
Kinematics of Machinery	Mr. V. Bala Chinalingam		
Computer Aided Engineering Drawing Practice	Dr. A. Stanly Kumar / Mr. R. Karun Kumar		
Fluid Mechanics & Hydraulic Machines Lab	Mr. V. Bala Chinalingam / Mr. P. Tarun Naga Venkatesh		
Production Technology Lab	Mr. U. Tanoj / Ms. P. Bhagya Lakshmi.		
Drafting and Modeling Lab	Ms. Y. Durga Bhavani / Mr. D. Rognatha Rao		
Essence of Indian Traditional Knowledge	Mr. D. Rognatha Rao		

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SRKIT / ME / 10.1

Academic Year: 2023-24

Class: III

Semester: II

Class Incharge: Ms. P. Bhagya Lakshmi

W.E.F. 01/01/2024

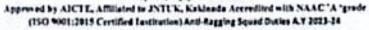
				Section	1							
Time	9:00 to 9:50	9:50 to 10:40	10:45 to 11:36	11:35 to 12:25		1:17 to 2:00	2:00 to 2:45	2:50 to 3:35	3-35 to 4-20			
Period	1	2	,				•	1				
MON	DMM-II	ALRMI.	307	AE	8	PULL		HT Lab				
TUE	PURE	AE	DMM-II	PURE			×	HT	CAE & CA	AE & CAM L	Lab	
WED	Alami		AI & MI. Lab		=	AE	FUEE	Counseling	HIT			
THU	HT	AL	DMM-II	RMARIFW		Alam.		MANLe				
FRI	KMAIPK	HT	AE	AlaML		PULE	DMM-II	AlaML	Sports			
SAT	AE	DMM-B	ALEMIL	DMM-II		RMAIRS	PULE	HT	Library			

Hest Transfer	Mr. P. Turun Naga Venkatosh		
Design of Machine Members-II	Ms. P. Ringya Lakshmi		
Introduction to Artificial Intelligence and Machine Learning	Dr. A. Stanly Komer		
Automobile Engineering (PE-2)	Mr. V. Bala Chinalingum		
Fundamentals of Utilization of Electrical Energy (OE-2)	Mr. G. Revi Kumer		
Hest Transfer Lab	Mr. Y. Durga Bhavani / Mr. P. Taran Naga Venkatrah		
CAEACAM Lab	Mr. D. Regnethe Ros / Mr. V. Bale Chinalingure		
Measurements & Metrology Lab	Ms. P. Biogya Lakshmi / Mr. U. Tanni		
Artificial Intelligence and Machine Learning Lab	Dr. America		
Research Methodology and IPR	Ms. G. Sribslitha		

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Enthepeda, Vileyenada 521105





Anti Ragging Duties List A.Y 2023-21 II Semester

INT TOCAL MITE	IN-CILIR	MAIN GATE 04.00 - 04.45 AM 12.15 - 04.15 PM 64.15 - 84.25 PM	COLLEGE ENTRANCE 09.00 - 09.45 AM 12.15 - 01.15 PM 64.15 - 04.45 PM	NORTH GATE, CANTEN 01.00 - 09.45 AM 12.15 - 01.15 PM 04.15 - 04.45 PM	EAST SIDE PARKING 09.00 - 09.45 AM 12.15 - 01.15 PM 04.15 - 04.45 PM	95.00 - 09.45 AM 12.15 - 01.15 PM 04.15 - 64.45 PM
MON	DH. T SUTT IN IR S 1 UNI BOD CIVIL BASSON	T. VISION PRIVA: \$400377771,LCE .9AM, Dr. D S PHANI KISHORE, ECT. \$54274214 BA1974 N. MARINBI, CSL. \$65284204, 12.15 PM K. NARENDRA BABU, EEE \$945286351, 69 AM, 12.15PM, 4.15PM	Dr. S SRI GOWRI HOD ECT, 2013322366 - 9 AM, ML PRIYANKA, MCA, 9 (10736438, 9 AM, 12 (1974), 4 (1974) P. TARUN - ME, 1908633672, 09,00 AM, 12 (1974), 4 (1974)	K. KBUPA, CSF, 6281397342, 02.00AM K.NAGA LAVANYA - ECE, BUSSENSEN 12.15PM DERAVI TEJ, ECE, 9441347164 - 94.15PM	BILAGYA LAKSIMII MECH 7096789642, 08AMLI LISPAL ALISPM V. MEKHARA RAU, R.C.L. 9197683841- 12.15 PM.	P. MANJI SRI, MBA, 9441741443, 9 AM, 12 197M, 4 187M N. MARINEL, CSE, 9052844208, 64.15 PM
nt	DR P KISHORE ROD MECH MERISHON	DERAYI TEA ECT, SMITHTIM - SAM, S. SANDIIYA, EET, SSISSAMS, OS AM, 1215FM, 415FM BRAYL-ECT, MINISTED - GALISFM	CIL RAMY A BHARATHE CSF. 450F1951417, 09:00 AV. A. AKHILA - IT, 09 AM, 12:15PM, E297101337	P. NAGA SRINIVASA RAO 130643059, 09 AM, 12.15PM, £15PM CH. PRABITAVATHI, CSF, 7075763460, 12.15 PM	R.S.A. K.I. MAR REDDA' SIDEZ?*JAS, 6 IVI * A.M. 12.18PM, 4 18PM K. NOHA NAMRATHA, ECT. 7995789210, 12.18 PM.	KBABY RAMYA "MCA, B4648/12185, 09 AM, 12.18PM, V. VIJAYA DURGA, CSE, 790,3866157, 04.18 PM
WID	DR. S CRI GOWRI HOD ECT. 7093321M4	CHESATYANARAYANA REDDY - MCA. 9091111666, 09 AM, 12.15PM, 4.15PM CHESATSIVA DERGA, CSE, 9449041303, 12.15 PM	GSSRI HARSHA - EFE RIZHSRINA, DF AM, 12.11PM, 4.15PM CH, SAI SIV A DURGA, CSE, SAPRICESSIA, OL 15 PM	B. CHENNE MBA, \$247174448, 974NL 12.19PML 4.19P	U. TANOJ, MECIL, 9642191614, 09 AM, 12.15PM, 4.15PM B.RAVLECE, 8030199152, 12.15PM	CIL PAVANL CSE, 9177261792,09.00 AM MLT, MANOGNA, ECT. 7032632107-12.15 PM
THU	DR. B KRIMINAIA II HOD - MRN UTMSTAII	T. AISHNU PRIVA 9480347777-ECE - 09.00 AM V. SRINIVAS, 7981192931 - MIRA 9 AM, 12.18794, 4.18794 K. DI RGA BRAVANI - CSE, 994900217,9 AM, 12.18794.	V BALA CHINA LINGAM, MECH, \$191714506-09.00 AM, 12.157M, A.157M Dr. B. ANI SHA, CSE, 8556123576, 12.157M, T. ANIOL CHOW BARY, ECE, 9915564507, 4.157M	V. SIVA KIMAR, EEE, 9 AM, 12.15PM, 4.15PM BADSASSAS, A. RAMYA - ECT, 4.3024M982 - 12.15 PM DR. K. CHAITANYA, CM., 9550474495, 04.15 PM	E. NAGA RAJU - MCA, 9833/83/80, 09 AM, 12.15PM, G. NAHITH 92145/8659 - CTV H. 12.15CM, 4.15PM	T. SOWZANYA, MRA, 9163019629, 09AM, 12.15PM, 4.15PM
nu	Dr G.D.K. KISHORE HOD-IT	DEA STANLY KUMAR – ME, 1960/1910, 7 AM, ILLISPM, ALISPM K. JAIRAM, CNE, SEPTIMITE, ILLISPM, ALISPM SLAKEN OTHE-ECE-1960/114234, 09AM	AMRITHA, MISHRA, I.T., 9 AM, 12.19PM, 7416472609 D. SHRISHA, CSE, 8790670429, 97309 AM G. RAVI KUMAR, ELLAI25542509, 09 AM, 12.15PM, 4.15PM	CIL RAJESH - CIVIL 29 AM, 12.15PM, 4.15PM, 7386,79993 M. RAMYA PRIVA - ECE, 9396797979 - 12.15 PM	K. HAREESH, MCA, 9948723111, R.MAM, 12.18PM, Dr.DS PHANI KISHORE-ECT, 9542996244, 84.18PM	V. NARESIL MBA, 1963/569739, 09AALIZ ISPM, 4 ISPM
SAT	DR. A. RADHIKA. HOD CNE 9885986456	D. ROGNATHA RAO 9429/2002 MECH, 69 AM, 12.15PM, 4.15PM G. DURGA BHAVANI - CSE, 9136229990, 12.15PM, 4.15PM T. ANIOL CHOWDARY, LCC. 9913561803, 04.15 PM	K. KIRAN - CIVIL, TEPRAKHIL 09AM, 12 ISPM. 4 ISPM GMH LAKMIMILIT,MISESSER, VAM, 12 ISPM, N.KALAVATHLECT, 4304727127,4 ISPM	K. VENKATESHWAR RAG, MRA, 1985/64201. 09AM, 12.15PM, 4.15P V. SRI LAKSHMI -ECE 9390797979- 12.15PM	K. PAVANI - MCA 1003100344, 07 AM, 12.15 PM G.B.M. DRA RANGENE 1496113234, 12.15 PM	M, SEPRIVA, EEE, 738236676, 07 AM, 12.15PM, 4.15PM

Coordinator must coordinate with other Faculty members.

· Maintain proper Discipline in the College premises.

Unhealthy practices with in the College campus are strictly prohibited.

Assistain a sense of decency in physical appearance (About ID-Card & Dress code).

SRK INSTITUTE OF TEStanda or restricted form loltering, making noise inside the College campus. .

ENIKEPADU, VIJAYAWADAY sweep gelated to Anti Ragging Duties report to Principal Immediately.

Pullua Principel



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Result Analysis of III/IV B.Tech II Semester MECH 21-25 Batch (R20)

AY: 2023-24

Description	No.of students Passed	Total No.of students	Percentage %
Total subject passed	11	22	50
One subject failed	6	22	27.27
Two subjects failed	0	22	0.00

Subject wise Student Pass Percentages

S.No	Subject Name	No.of Students Attempted	No.of students passed	Pass Percentage	Faculty Name
1	HEAT TRANSFER	22	15	68.18	MrP.TARUN NAGA 2 VENKATESH @
2	DESIGN OF MACHINE MEMBERS-II	22	16	72.73	Ms.P.BHAGYALAKSEMI
3	INTRODUCTION TO ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	21	18	85.71	Dr. A. STANLY KUMAR
4	AUTOMOBILE ENGINEERING	21	16	76.19	Mr. V. BALA ? CHINALINGAM .
5	FUNDAMENTALS OF UTILIZATION OF ELECTRICAL ENERGY	22	19	86.36	Mr.RAVI KUMAR
6	HEAT TRANSFER LAB	22	22	100.00	Ms. Y. DURGA BHAVANI
7	CAE&CAM LAB	22	22	100.00	Mr. D. ROGNATHA RAO
8	MEASUREMENTS & METROLOGY LAB	21	21	100.00	Ms. P. BHAGYALAKSHMI
9	ARTIFICIAL INTELLIGENCE AND MACHINE LEAR	22	22	100.00	Dr.D.ANUSEHA
10	RESEARCH METHODOLOGY AND IPR	22	22	100.00	Ms JALITHA

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Department of Mechanical Engineering

Result Analysis of II/IV B.Tech II Semester MECH 23-24 Batch(R20)

Description	No.of students Passed	Total No.of students	Percentage %
Total subject passed	10	19	52.63
One subject failed	06	19	31.57
Two subjects failed	00	19	00

Subject wise Student Pass Percentages

S.No	Subject Name	No.of Students Attempted	No.of students passed	Pass Percentage %	Faculty Name
1	COMPLEX VARIABLES AND STATISTICAL METHOD	19	13 	68.42	Ms. V. Prasanthi
2	MATERIAL SCIENCE & METALLURGY	19	19	100.00	Mr .P.TARUN NAGA VENKATESH
3	DYNAMICS OF MACHINERY	.19	15	78.94	Mr. V. BALA CHINALINGAM
4	THERMAL ENGINEERING-1	19	13	68.42	Ms. Y. DURGA BHAVANI
5	INDUSTRIAL ENGINEERING AND MANAGEMENT	19	18	94.73	Dr. P. KISHOREKUMAR
6	MECHANICS OF SOLIDS AND METALLURGY LAB	19	19	100,00	Mr. U. TANOJ
7	MACHINE DRAWING PRACTICE	19	19	100.00	Dr. A. Stanly Kumar
8	THEORY OF MACHINES LAB	19	19	100.00	Mr. V. Bala Chinalingam
9	PYTHON PROGRAMMING LAB	19	19	100.00	Dr. A. Stanly Kumar

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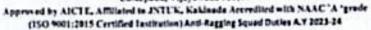
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Anti Ragging Duties List A.Y 2023-24 II Semester

IOCAL MITE	INCILIE	MAN GAIL 04.00 - 09.45 AM 12.15 - 01.15 PM 64.15 - 04.45 PM	COLLEGE ENTRACE OLD OF STANI 12.15 - 01.15 PM 64.15 - 64.45 PM	NORTH GATE, CANTES 01.00 - 09.45 AM 12.15 - 01.15 PM 04.15 - 04.45 PM	EAST SIDE PARKING 09:00 - 09:45 AM 12:15 - 01:15 PM 04:15 - 04:45 PM	WEST SIDE WORKSHOP 09.00 - 09.45 AM 12.15 - 01.15 PM 04.15 - 04.45 PM
MON	PR T SCITA CASE O HOD CIVIL SUSSESS	T. VISHENE PRIVAL SHABATTITLECE JAME Dr. DS PHANI KISHORE, ECE. SULPTELLA BLISPM N. MARINEL CSL. VEQUALIZEL 12.15 PM R. NARINDRA BABU-TEE SOMEMOST. OF AM 12.15PML ALEPM	Dr. S SEI GOWRI HOD ECT. 7093322366 - 9AM. M. PRIYANKA-MCA-9110736AM, 9 AM. 12.19734, 4.19731 P. TARLN - ME, 9908935072. 09.90AM, 12.19734, 4.15731	K KRI PA, CSF, 6281397342, 97.00AM ENAGA LAVANYA – ECT. 8128490790 IL 13PM DERAVI TEJ, ECT. 9441747164 – 94.13PM	BILAGYA LAKSIMI MECH TOMTEPSIZ, OLANLIZ ISPNI, 4.15PM V. SEKHARA BAU, ECL. *172643841- (2.15 PM.	P. MANJI SRI, MBA, 9441741443, 9 AM, 12 18PAL & 18PAI N. MARINBI, CSE, 9642844268, 64.15 PM
nt	DR. P KISHORE HOD MECH PROISHUS	DERAYI TEA ECT, SHITTING SAM, S. SANDIIVA, EEE, PRISHAMS, OF AN, 1215PM, 415PM B.R.AVL - ECT, NEW 19152 - GALISPM	CIL RAMYA BHARATHE CSF. 95051951417, 09.00 AM, A. AKHILA - IT, 09 AM, 12.15PM, E297101337	F. NAGA SRINIVANA RAO 1996473690, 69 AM, 12.15PSL4.15PM CIL PRABITAVATHI, CNE, 7075761460, 12.15 PM	R.S.A. K.I. MAR RETURN RIDGZ*9433, 1 IVI # A.M. 12.18PM, 4.18PM K. NORIA NAMRATIKA, ECE. 7998789230, 12.18 PM.	KHABY RAMYA MCA, BIGISIZIES, 09 AM,IZ.ISPM, V. VIJAVA DURGA, CSE, 200 JAMAIST, BLIS PM
WID	DR. S SRI GOWRI HOD ECT. 709332364	CHSATVANARAYANA REDOV - MCA. 5397121664, 09 AM, 12.15PM, 4.15PM CH, SAI SIVA DE HGA, CSE, 5409625335, 12.15 PM	GSSRI HARSHA - LEE M28544546, 69 AM, 1215PM, 415PM CH, SAI SIV A DURGA, CSE, SAISOIZSUS, 64 15 PM	B. CHINNE, MIRA, SQUITTARA, STEAM, 12,19PM, 4,15P	U. TANOJ, MECII, 9642191614. 09 AM,1215PM, 415PM B.RAVLECT, 8030199152,1215PM	CIL PAVANL CSE, 9177247782,09.00 AM Ms. T. MANOGNA, ECT. 7032482107-12.15 PM
niu	DR B KRISINAIA II HOD - MBA UTPS*444	T, VISHNU PRIVA 944031777- ECE - 09.00 AM V, MILNIV AS, 7981192931 - MIRA 9 AM, 12.18794 - 418794 K, DI RGA BHAVANI - CSE, 994930717,9 AM, 12.18794	V BALA CHINA LINGAM, MICH, 549414666-04.00 AM, 12.15PM, 4.15PM De, B. ANI SHA, CSE, 8886123576, 12.15PM, T. ANIOL CHOWDARY, ECE, 9915564867, 4.15PM	V. SIVA KIMAR, EEF, 9 AM, 12.15PM, 4.15PM \$4.36025224, 4. RAMYA – FCF, 4.362438982 – 12.15 PM DIE, K. CHAITANYA, CM., 9550474455, 04.15 PM	E. NAGA RAJU - MCA, 953363360, 96 AM, IZASPAL G. SAHITHI 9394509595 - CIVIL 12.15731, 4.15731	T, SOWZANYA, MBA. 9164019649, 09AM. 12.15PM, 4.15PM
ru	Dr GD K KISHORE HOD-IT	Dr.A. STANLY KUMAR – MT. ************************************	AMRITHA, MISHRA, I T, 9 AM, 12.15PM, T4164T2699 D. SHRISHA, CNE, 8790676429, 99,99 AM G. RAVI KUMAR, ELEJI25542509, 09 AM, 12.15PM, 4.15PM	CH. RAHAH - CIVII. JP AVI. 12.19PM, 419PM, 7396219PH M. RAMVA PRIVA - ECT. 9390797979 - 12.15 PM	K. HAREESH, MCA, 9148723HIL, LOMAN, 12.18PM, De.DS PHANI KISHDIRE ECT. 9542976244, 84.18PM	V. NARESIE MRA, WKAJSAWIJE, DIANEIZISPM, EISPM
SAT	DR. A. RADHIKA. HOD CSE VERTNEASE	D. ROGNATILA RAO 944972092 MECH. 09 AM. 12.15PM, 4.15PM O. DERIGA BHAVANI - CSE. 913622999, 12.14PM, 4.15PM T. ANIOL CHOWDARY, ECE. 991556484, 04.15 PM	K. KIRAN - CIVIL, 2998-8411. 97AM, 12.15PM, 4.15PM G.SHI LAKSHMIJIT, MESASSAR, 9AM, 12.15PM, N.KALAVATHIJECT, 4384727127,4.15PM	K. VENKATESHWAR RAO, MB.C. 898264201, 09AM, 12.18PM, 4.18P V. SRI LAKSHMI - ECE 9390797978- 12.18PM	K. PAVANI - MCA 9063806364, 07 AM, 12.15PM, G.H.SI DHA RANLENE 9190421238,12.15 PM	M, SEPRIVA, EEE, 738236476, 09 AM, 1248PM, 448PM

· Coordinator must coordinate with other Faculty members.

Maintain proper Discipline in the College premises.

Conhealthy practices with in the College campus are strictly prohibited.

PRINCIPAL Maintain a sense of decency in physical appearance (About ID-Card & Dress code).

RK INSTITUTE OF TECHNOLOGArestricted form loltering, making noise inside the College campus.

NIKEPADU, VIJAYAWA II and dssporrelated to Anti Ragging Duties report to Principal immediately.

Chulling Principel



Performance-Based Appraisal System (PBAS) for Associate Professors

Name of the Faculty: Dr Vishnu Priya Thotakura.

A.Y:2023-24

S.No.	Evaluation paramet	er Max API Score	Minimum Score required	Self-Score	DFAC Score	IASC Score
1	Service in the College	50	****	50	50	50
2	Curricular Activitie	s 400	****	380.85	380.85	380-85
3	Co-Curricular Activities	150		80	80	80
4	Research &Development	250	50	30.	30	30
5.	Administrative and Extra-curricular activities	150		95,	95	15
Total		1000	550	635-85	63885	63585
Sign	ature of faculty 7	. Hija				
Sign	ature(s) DFAC 1 members	S Sn Gou	m 2 Tup	o.	3 D&T	
Signa	nture(s) of IASC 1 members	Tully	J 2 5	SiiGoun	3 T. E	AN

PART - A Service in the College

Maximum API Score:: 50

	Personal Details:	
1.	Name	Dr T. Vishray Priya
2.	Present Designation	Assoc Professor
3.	Name of the Department	ECE
4.	College level administrative post (if any)	Academic & Bos member
5.	Employee Identification Number	ECE-OL
6.	Date of Appointment to the present post	Dec 2022
7.	Date of birth	10-08-1979
8.	Address	SRK matitute of Technology
9.	Contact details	E-mail : tholokurovishnupriya 999@gmail Telephone : quadsun 717 Mobile :

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2 Educational qualifications (starting from degree):

Programme	Period of study	University	Marks/CGPA	Class obtained
M-Sc	1999-2001	ANO. Guntur	66-1	First
M.Tech	2006-2008	ANU. Guntur	72-1.	First
Ph.D	2017- 2022	VIT-AP Univer	<u>t.</u>	

3 Experience (starting from present position):

S.No.	Designation	Institution	From	To
1.	Associate Professor	SRKIT, VJA	Dec 2000	Till date
2	Assistant Professor	SEKIT, VIA	Jun2008	Dec 2022
3.	lectures	Morie Stella Colle	2004	2006
4	Associate Lectures	Krishnoveni "	2002	2003
		Exhibition		The second second
		Society polyte		

PART-B
PART I – Curriculum Activities

Maximum API Score: 400

1.1. Teaching weekly load allotted by the department as per time table

Semester-	1	Semester-	-11	Andrew Street	Average	
Name of the course	Weekly Load	Name of the course	Weekly Load	Total load	of weekly load	
EMT -T	6	PP-I	6			
EMI - II	6	PP- D	6			
PP lab	4	DSP-T	6			
VAC Agrandt ea	n 8	Total load	24	2424	24	
Score details for	Maximun		DFAC	score	IASC score	
1.1	50	50	50		50	

1.2. Total lecture periods taken in the previous two semesters

Semester-1			Semester-II		
Name of the course	T/P	Score	Name of the course	T/P	Score
EMT -T	66/70	18 85	Python Programs	65/10	18-51
EM7 - 17	74/70	20	PP - 37	63/70	18
		38.85			36.51

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Average score of semester-1	19.42	Average score of semester-II	18 - 285
Final score = Average score of t	wo semesters	18.85	

T: Number of lectures taken as per concerned course attendance register

P: Number of lectures proposed in the concerned course lesson plan

Score = T/P * 20

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.2	20	18-85	18.85	18.85

1.3. Course files (All the claimed contents should be available in the course file)

		Weightage	Maximum	Seme	ester-I	Seme	ster-II
S.No	Contents of course file	points per course per semester	points per semester	Course Name EHI-1	Course Name Etti-3	Name PP-I	Name PP-B
1	Syllabus page	0.5	1.5	0.5	0.2	0.5	0.5.
2	Lesson plan	1	3	1	1	1	1
3	Lecture Notes	3	9	3	3	3	3
4	Question bank (Unit wise)	2	6	2.	2_	2	2.
5	Internal examination question papers with CO mapping	1	3		,	,	1
6	Internal examination marks copy	0.5	1.5	0.5	0.5	0.5	0.5
7	Internal examination CO, PO assessment	2	6	2	2_	1_	2
8	End Semester results copy with Analysis	1	3	1		1	1
9	End semester examination CO, PO assessment	2	6	2_	2-	2_	2
10	Improvements to be brought in next time course delivery	1	3	1	1		,
11	Assignment questions with CO mapping	1	3	1			,
12	Course End Survey evaluation	1	3	1	•	•	1
13	Scheme of evaluation for end	3	9	3	3	3	3

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	semester examination							
14	Any other (wapproval of l		1	3	1	•	1	1
Maxi	mum points		20	60	20	20	20	20
Total	of Semester-I	&Semester	-11		4	0	4	0
Aver	age of Semeste	r-1 &Seme	ster-II			80		
Score details for	Maximu	m Se	elf-score	DFAC	score	IASC	score	
	1.3	60	e	0	- 4	60		60

1.4. External examination invigilation / evaluation duties

Nature of the Duty Performed	Points per duty		of duties ormed	Total number of	Total points
	AND THE RESERVE	Semester-1	Semester-II	duties performed	
External examination answer sheets evaluation	5	a	a	4	20
External examination invigilation	1	6	6	12	12
Lab external examination examiner	5		ı	-1	5
Seminar – Internal examiner	5	0	0	0	0
Mini Project- Internal examiner	5	0	0		-
Major Project - Internal examiner	5))	2	a	10
Term Paper - Internal examiner	5	1	1	2	10
Any other works*	1	2	2	4	4
				Total points	61

^{*}Any other works related to external examination with approval of IASC

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.4	20	ನಿ೦	20	20

1.5. Internal examination invigilation / evaluation duties

Nature of the Duty Performed	Points per duty	The property of the second	of duties formed	Total number of	Total points
, cirolina	20000000	Semester-I	Semester-II	duties performed	-
Internal descriptive exam	1	6	6	12	12,

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answer sheets evaluation				1000	
Internal objective exam answer sheets evaluation	1	online			
assignment books evaluation	1	10	10	20	90
Internal exam invigilation	1	10	10	10	10
Lab internal examiner	1			1	1

Score details for	Maximum score	Self-score		1ASC score	
	20	20	2.0	20	

1.6. Use of innovative teaching methodologies

Teaching methodology	Number of points per course per semester	Max. points per semester	Semester- I points	Semester- II points	Average points of two semesters
Power point presentations with own annotations and minimum 10 slides per course per semester	5	10	10	10	10
Visuals (Topic Related own video/simulation created)	5	10	10	10	10
Entire course content uploaded in MOODLE server	10	20	-	-	5
		-		Total points	

Note: All teaching methodology works should be recorded in the teaching diary of concerned course attendance register and proofs should be authorized by HoD.

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.6	20	ಪಿಂ	20	2.0

1.7. Remedial classes / Bridge Courses / Content beyond syllabus / Etc.

Details of item	Semester - 1	Semester - II	Average
ALC: NO			

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	Name of the course	No. of classes taken	Semester - I points	Name of the course	No. of classes taken	Semester - II points	of semester- I and semester- Il points
Remedial classes							
Bridge courses			71.3				
Career oriented course		727 0		1			
Content Beyond Syllabus	EMI-1	5	10	Python Programmi	5	10	ಇಂ
Additional experiments designed and conducted beyond curriculum							
Job oriented Certificate Courses							====
		12-11-				Total points	

Details of item	Minimum classes required	Points per class	Maximum points
Remedial classes	5	2	10
Bridge courses	5	2	10
Career oriented course	5	2	10
Content Beyond Syllabus	5 concepts	2	10
Additional experiments designed	2 experiments	5	10

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and conducted beyond curriculum	1			
Job oriented Certificate Courses	10	1	10	

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.7	10	٦	7	7

1.8. Mentoring with proper records

Item	Semester I	Semester II	Total No. of sessions taken	Points per session	Total score
No. of counseling sessions done	4	4	8	5	40

Note: Mentoring record should be in faculty hand writing only. Otherwise don't consider.

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.8	20	ao	2.0	20

Semester – I			Semester - II			
Name of the course	Percentage of pass	Points per course	Name of the course	Percentage of pass	Points course	per
EMI-I	89.72	30	PP-I	RA		
EMI-II	81.25	25	PP-II	RA		
Average points of semester-l		55 Average point		s of semester-II		

Note: Don't include laboratory courses here.

Percentage of pass	<55%	55-64.99%	65-74.99%	75-85%	>85%
points	10	15	20	25	30

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Score details for	Maximum score	Self-score	DFAC score	IASC score
1.9	30	a5	25	25

1.10. Student feedback on teaching

Semester – I				Semester - II	e ÉTESE.
Name of the course	Feedback obtained	Points per course	Name of the course	Feedback obtained	Points per course
EMT-I	92.29	(4 60) 30	PP-T	95.7	u-185 30
EMI-IL	95.5	(1.30)	PP-II	96.2	4.81 30
Average point	s of semester-I	30	Average point	s of semester-II	30

Note: Feedback for laboratory courses also can be included here

Feedback	3	3 to 3.49	3.5 to 3.99	4 to 4.49	4.5 to 5
points	10	15	20	25	30

Score details for	Maximum score	Self-score	DFAC score	IASC score
	30	30	30	30

1.11 Project Guidance (Mini project/major project/seminar/term paper)

	Semester - I			Semester -	11
Batch - 1			Batch - 1	THE YEAR	
Title of Project			Title of Project	: Data Cer	tu security u + Protocols
Register no's of students	Grade	Score	Register no's of students		Score
	Table T		20KUS AOUOI	A ⁺	30

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			Provident Charles of the	0.140.4	- VD000
			DOKU IAOULE	A+	30
			201 UIAD 435	A ⁺	30
			Soundanas	A	25
	e of Batch-1 in semester-I (B1)	547	The state of the s	e of Batch-1 in emester-II (B2)	
Average score	of batch-1 in tw	o semesters (S): (B1+B2)/2 =		
The state of the s	Batch - 2			Batch - 2	N. I.
Title of Projec	t		Title of Project	: Application	n of AIC
Title of Projec Register no's of students	t: Grade	Score (S1)	Title of Project G-RADIO Into Register no's of students	uface for Hu	of AI C man Menta Score (S2)
Register no's		Score (S1)	Register no's	Grade	man Mento
Register no's		Score (S1)	Register no's of students	Grade Hu	Score (S2)
Register no's		Score (S1)	C-RADIO Into Register no's of students	Grade 4 A+ 30	man Mento
Register no's			GRADIO Interessed Register no's of students	Grade 4 A+ 30 A+ 30 A+ 30	Score (S2)

P = 20 points if SCI/Scopus paper (journal / conference) published from the work of the project (This publication should not be shown under Part - 3)

Project Grade	A+	Α	В	C
Points	30	25	20	15
Score details for	Maximum score	Self-score	DFAC score	IASC score
1.11	50	50	50	50

1.12. NPTEL/MIT/COURSERA/edx/UDACITY courses completed

by bi source	Average points of one	Average points of two
--------------	-----------------------------	-----------------------------

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		with dates	obtained	semester	semesters
	S	emester = I			
	Se	emester = II			
Python fol Data Scienu.	NPTEL	4 Weeks	Jan-Apr 2024		
		651.	13		13.

Note: Full course of at least 6 weeks duration only to considered. Points for a course with exam: 20*Percentage of marks obtained

Points for a course without exam: 10

Score details for	Maximum score	Self-score	DFAC score	- IASC score
1.12	20	10	10	10

1.13. Involvement of Facul	y in syllabus framing (BOS	S)
----------------------------	----------------------------	----

For BOS members:

Points:20 Date(s) of BOS meeting attended: 10.7-2024

For non-BOS members:

Title of course(s) for which syllabus prepared: TI BTech ECE & TI BTech EVT

Points: 10 for each course

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.13	20	ao	20	20

1 14 MOII's / Student Internships

Name & Regd, no. of student received internship through your guidance	Organization	Duration of internship	Amount received by student for internship	Points
Eduskills	Eduskilla	2 Honths		ನಿಂ
	IBM	8 Weeks		20

ALCTE

L4G

Generative Al Course.

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Total points	60	

Online Internship (including internshala): 5 points per student (Max.: 20 points) Industry internship (offline): 15 points per student (Max.: 30 points)

Details of MOU	Validity of MOU (Mention date(s))	Internships received through MOU	Amount received by student (paid internship) for internship through MOU	Points
Total points				

Each functional MOU: 10 points

Internship received through MOU: 10 points/student (paid internship only)
Internship received through MOU: 5 points/student (non-paid internship)

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.14	30	30	30	30

Total score of part-1

Item no.	Maximum score	Self-score	DFAC score	IASC score
1.1	50	50	.50	σχ
1.2	20	18-85	18.82	18.85
1.3	60	60	60	60
1.4	20	20	20	20
1.5	20	20	20	20
1.6	20	ao	20	20
1.7	10	7	7	7
1.8	20	20	20	20

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1.9	30	25	25	25
1.10	30	30	30	30
1.11	50	50	20	50
1.12	20	10	10	10
1.13	20	50	20	20
1.14	30	30	30	30 .
Total score of part-1	400	380.85	380.85	380.85

Part - II Co-Curricular Activities

Max. Score: 150

Membership offered professional society	Membership number	National / International	Points
TETE	F-503769	National.	5
SIFRE	SIFRE 2022 125	- national	5
		Total points	

Note: International membership=10; National membership=5 points, Don't include online free memberships.

Score details for 2.1	Maximum score	Self-score	DFAC score	IASC score
	10	10	10	10

Development of facilities	Details of development undertaken	Semester-	Semester - II	Total score
a) Laboratory infrastructure up gradation/New Experiment Setup Including MODROB (Utilization of budget)				
 b) Common student facilities Class Room Services, 				

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(1)

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	Basic Amenities, Seminar/Common Halls etc.				
c)	Addition & use of new software	Google Colob	7	5	9
d)	Any Other - authorized by IASC with the approval of Principal				
				Total score	-

Principal participant = 5 points per semester; others = 2.5 points per semester

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.2	10	5	5	5

2.3 Attending or organizing various activities:

Conferences / Seminars / workshops/ FDPs / skill development course / certificate courses /

industry training and other similar items

Attended	Da	tes	No of	Title, Place, Month & year details	Points
/ Organized	From	То	Days		
Organized Altended			1	New Strategies & Bust Proclices	& 10.
		1.2		· The second	30
Total points	\$		-		

Maximum points for attending various events: 30 Maximum points for organizing various events: 30

Score details for 2.3	Maximum score	Self-score	DFAC score	IASC score
	60	40	40	40

2.4 Guest Lectures/webinar attended, organized or delivered

Lou	ites	Title, Place, Month & year details	Points
From	То	ordine lecture on	1
lslu_	2024	Sensitisation Program on Higher studies	10
		EGS Pillay Engineering College	
			Ulaboru Sensitiation Program on Higher Studies Organised by Department of ECE

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Score details for 2.4	Maximum score	Self-score	DFAC score	IASC score
2.7	20	10	10	10

	20	10		10	10	
2.5 Accompanie	d students on indu	strial tour	5			
Date(s)	Places visited			No. of days	Points	
-				-	-	
Total points						
One day trip: 5 p	oints; More than on	e day trip: 1	0 points			
Score details fo	Maximum			FAC score	IASC score	
2.5	10	-		-	-	
Name of the eve	hnical events organ ent	ized	Date(s)	Role	Points	
Paper Pris	rdation in Exp	ones Hool akau	6 Mar 20	onibos) ve	40/ 5	
				2 50		
Role(s): Departs	ment coordinator: 10	points, Eve	ent coordinat	or: 5 points, Ot	hers: 2.5 points	
Score details fo	Maximum score			OFAC score	IASC score	
4.0	10	5		5	7	
2.7 Student inn	novations; Guidanc				-1	
Details of stude	nt innovation	2.7	ace o	0 1000000000000000000000000000000000000	of Points	

2.7 Student innovations; Guidance Details of student innovation	Place of participation	Date(s) of participation	Points
Guided a Project on	TATURE OF TECHNIC	Place 27th 528	4
voice Based Medicine Reminder"	Techzike	243-14 April 2	osy
a to Do Jakke as	CDPactherColl	irander on	2020

Guided Postu Presentation on CR Rectly College of Engineering



Score details for 2.7	Maximum score	Self-score	DFAC score	IASC score
	. 10	10	10	10

Name of the company to which consultancy provided	Amount earned	Total amount	Points

< Rs. 25000/- 2.5 points; 25000 to 50000 - 5 points; 50000 to 100000 - 7.5 points; 100001

1000000 - 10 points; more than 1000000 - 20 points

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.8	20		-	-

	Maximum score	Self-score	DFAC score	IASC score
Item no.	Maximum score	Dell'sesit		
2.1	10	10	10	10
2.2	10	5	2	5
2.3	60	40	yo	uo
2.4	20	10	10	0)
2.5	10	-	_	-
2.6	10	5	2	5
2.7	10	10	10	10
2.8	20	-	-	-
Total score of part-II	150	80	80	80



Part - III R &D Related Contributions

Max. Score: 250 (Min. score required: 50)

3.1 Research Publications

Book / Book chapter (Indexed by SCIE / Scopus / UGC only will be considered)

S.No.	Details of Paper	by SCIE / Scopus / UGC	Points
	Author(s) names		OI I
	Name of the book / book chapter		_
1	Publisher details		5,804
	ISBN no.		
	Page no(s), Month & Year of publication		

Points: Book: SCIE - 50, Scopus - 40, UGC - 30

Points: Book chapter: SCIE - 40, Scopus - 30, UGC - 20

Paper publication(s) in journals (Indexed by SCIE / Scopus / UGC only will be considered)

S.No.	Details of Paper	Indexed by SCIE / Scopus / UGC	Points
	Author(s) names		
1	Name of the paper		-
	Publisher details		
	ISSN no.		



Mont Year	of	-
publi	cation	

Score details for	Maximum score	Self-score	DFAC score	1ASC score
3.1	80		-	-

3.2 Sponsored Research projects

Details of investigators	Sanctioning agency	Amount sanctioned / applied	Date of application	Project sanctioned / result awaited	Points
7-1-1		-		-	-
	_			Total points	

Project amount	Sanctioned (points)	Result awaiting (points)	No.of investigators allowed
More than Rs.20 Lakhs	40	12	5
Rs.10 Lakhs - 20 Lakhs	30	09	4
Rs.5 Lakhs -10 Lakhs	20	06	2
< Rs.5.0 Lakhs	10	03	2
SAGTE projects	10	-	2

Score details for	Maximum score	Self-score	DFAC score	IASC score
3.2	70	_	-	-

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3.3 Conferences / symposia papers presented
Conference proceedings (Indexed by SCIE / Scopus, UGC only will be considered)

S.No.	Details of Pape	er	Indexed Points
ŋ	White spot Neural Ne	syndrome Detection in Shrimpusing toolk model.	by SCIE / Scopus / UGC
2)		Sugaro-FIS based Hulti-bop Routing A	about for Health Mon
	Author(s)	14 Verreamani, Vishru Ajya Thotokura.	IN MANS
	names	s senthilkumai, L. Ramachandhan Vlakshmi Praba, M. Chinnadurai	Scopus
	Name of the paper		
1	Conference details	BVICAM 24 11th International Confession on Computing	.GG€
	Month & Year of conference	5th 11 tot Sustainable Galobal develop	Delint

Score details for 3.3	Maximum score	Self-score	DFAC score	IASC score
3.3	30	30	30	30

3.4 Patents

Details of inventors	Title of the patent	Patent registering agency	Month and year of patent	Published / Granted	Points
	_		_		
				Total points	

Score details for	Maximum score	Self-score	DFAC score	IASC score
3.4	20	<u> </u>	_	-



Details of incubation center		41.4.4.4	Month & Year of establishment		Points	Fall.
Max points: 10; Pri Active Participation	ncipal coon as certific	rdinator	r: 100%; others (oordinator and H	with acti	ve participati	on)=80%
Score details for 3.5	Maxim	um	Self-score	1050	AC score	IASC score
5.7%	20		-	-	_	_
3.6 Centre of Exce	llence esti	hlishe				
Ph. 14 A	ntre of	Mont		r of	Points	
Max points: 10; Prin Active Participation	ncipal coor as certifie Maximi	d by C	oordinator and H	OD		
Score details for 3.6	score		Self-score	DF	AC score	IASC score
	20				-	-
3.7 Ph.D related ac		our puid	fance			10 points
Details of scholar			Awarding university		Date & month of Ph.D awar	
Score details for	Maximu	ım	Self-score	DF	AC score	IASC score
3.7						

Total sc	ore of part- III		
Maximum score	Self-score	DFAC score	IASC score
80	_	_	
	Maximum score	A STATE OF THE PARTY OF THE PAR	Maximum score Self-score DFAC score



3.2	70			
3.3	30	30	30	30
3.4	20			
3.5	20			
3.6	20			
3.7	10			
Total score of part-III	250	30	30	30

PART-IV Administrative and Extra-curricular activities

Max. Score: 150

4.1 Departmental Administration

S.No.	Activity	SEM-I	SEM-II	Total points
1.	In-charge of time tables (10 /sem)			
2.	Attendance in-charge(10/sem)			
3.	Internal marks in-charge(10/sem)	10	10	20
4.	Mini / Major Project Coordinator/Review Members		5	5
5.	Exams In-charge (10)			
6.	Library in-charge			
7.	Lab In-charge	2.5	2.5	5
8.	Discipline(class teacher)	0.5	3.5	5
9.	Professional Society Related Coordinators (Based on the events conducted)/Department Association			
10.	Module / Course Coordinator			
11.	A STATE OF THE PARTY OF THE PAR			
12.	Media Coordinator			
13.	Departmental News Letter Editor/Members			
14.	ISO (Coordinator)			
15.	TEQIP Coordinator			
16.	The state of the s	15		
17.	NBA/NAAC Participation(10 /sem)	10	10	80
18.	Grievance cell			
19.	Anti-ragging Committee	۵۰5	8.5	5
20.	Vigitance			
21	Programme Coordinator(15 /sem)*			
22	Answer script in-charge			



23	Induction day		
24	Farewell day		
25	Any Other - authorized by chairman CAS standing committee with the approval of Principal		
		Total points	60

Each activity = 5 points per year; 2.5 points per sem; Coordinator = 100%; others = 50%

Score details for	Maximum score	Self-score	DFAC score	IASC score
	40	40	uo	uo

4.2 Institutional level administration

S.No.	Activity	SEM-I	SEM-II	Total points
1.	NBA Participation(NBA Common Criteria Preparation Coordinators)	5	5	10
2.	NAAC			
3.	Autonomous/Examination Section	5	5	10
4.	TEQIP Nodal Officers	7		
5.	R&D Committee Member/Paper Incentive Member			
6.	Maintenance of Central facilities (telephone, internet, electrical, water works, hostel, Sports etc.)			
7.	Career Guidance Cell			
8.	Grievance cell anti ragging	2.5	2.5	5
9.	ISO Co-ordinator			
10.	Any other such as Hostel Warden etc.,			0,500
		1.2	Total points	25

Each activity/sem = 5 points; Coordinator=100%; others=50%

Score details for	Maximum score	Self-score	DFAC score	IASC score
7.	50	a5	25	25

4.3 Institutional Events Organization members, Sports Participants

S.No.	Activity	SEM-I	SEM-II	Total points
1.	Annual day		5	5
2.	Cultural activities		5	5
3.	Sports participation		515	15
4.	Any Other as approved by IASC and by Principal approved	iga 1	5	5
		Sparts -	Total points	30



Each activity = 5 Points/sem;

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.5	30	30	30	30

4.4 NSS / NCC / Other Service activities

S.No.	Activity	SEM-I	SEM-II	Total points
1.	NCC / NSS activities			
2.	NSS/ NCC Coordinator(10)			
3.	Women grievance cell activities			
4.	Health camps			
5.	Blood camps			
6.	Service to poor			
7.	Service to Disabled			
8.	Charity camps etc.			
9.	Any Other as approved by IASC and by Principal approved	-		-
			Total po	ints

Each activity = 5 points/sem

Score details for	Maximum score	Self-score	DFAC score	IASC score
4.4	10	-	-	

4.5 Training & other Misc. activities

S.No.	Activity	SEM-I	SEM-II	Points
1.	Training and placements- Departmental T&P Coordinator=20 points; others = 10 points	-	-	
2.	Institute News letter Editorial board: 10 points; ArticleContributors:5 points(From Dept);			
3.	Material contribution to news letter/Annual Day Report/House Journal from Department ArticleContributors:5 points(From Dept)			
4.	Any Other as approved by IASC and by Principal approved	-	•	-
			Total points	



Score details for 4.5	Maximum score	Self-score	DFAC score	IASC score
	20	_	-	-

Total score of part- IV

Item no.	Maximum score	Self-score	DFAC score	IASC score
4.1	40	40	Цo	uo
4.2	50	25	25	25
4.3	30	30	30	30
4.4	10	988	_	-
4.5	20	-	_	-
Total score of part- IV	150	95	95	75

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Sementer I

Dr T Vishnu Priya

Time	9:00 to 9:50	9:50 to 10:40	10:45 to 11:35	11: 35 to 12:25		1:10 to 2:00	2:00 to 2:45	2:50 to 3:35	3:35 to 4:20
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WED			EMI-II		C	EMI-I		EMI-I	
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Semester-TT

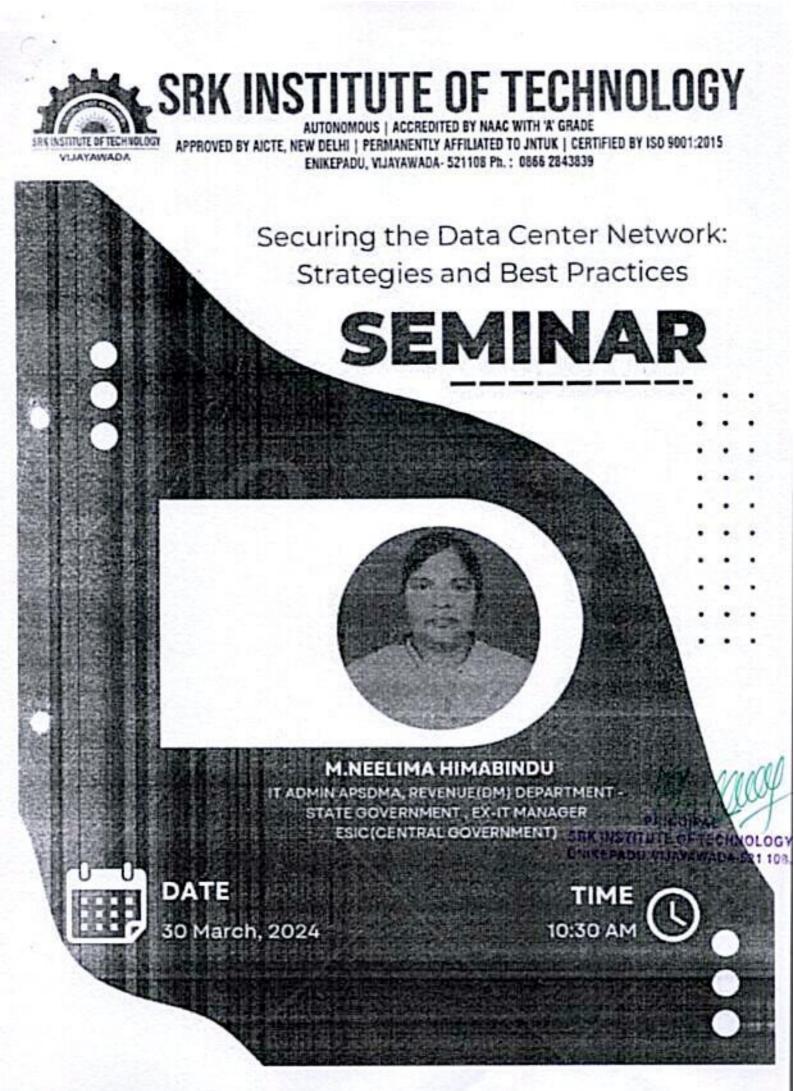
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Signature of Faculty: __TIP

Signature of HOD: -

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Sensitization i rogram on Higher Studies

Organized by

Department of Electronics and Communication Engineering E.G.S. Pillay Engineering College, Nagapattinam – 611002

Resource person(s)

- Dr. T.Vishnu Priya, ASP/ECE, SRK Institute of Technology, Enikepadu, Vijayavada, Andhra Pradesh 521108.
- Mr. T. Senthil Kumar, AP/ECE, M.Kumarasamy College of Engineering, Karur, Tamilandu, India 639113.

Date: 11.03.2024

Beneficiary: 3rd and 4th year students from ECE

SRK INSTITUTE OF TECHNOLOGY

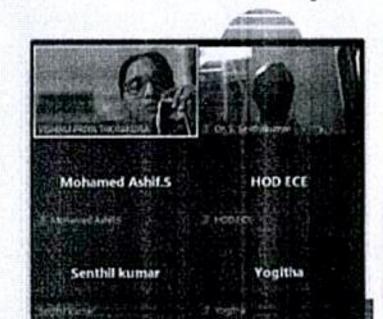






Contents

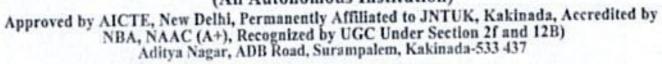
- Introduction
- Importance of Higher Education
- Challenges Faced by Students
- Exploring Academic Pathways
- Financial Aid and Scholarships
- Mentorship and Guidance
- Building a Support Network
- Career Readiness and Skill Development
- The Future of Higher Education
- Conclusion



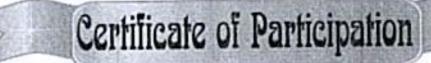


ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution)







This is to certify that	Dr. Vishnu Priya Thotakura , Asso	ciate Professor from
	Srk Institute of Technology	has participated in
Communication and S	Faculty Development Program on "En Signal/Image Processing (EFECSIP-202 Inmunication Engineering, Aditya College (2023)	3)" organized by Department

Dr. Venkata Lalitha Narja

Coordinator

Coordinator

Dr. R. V. V. Krishna

Convener, HoD-ECE

Dr. Dola Sanjay S.

Principal



VIGNAN'S NIRULA INSTITUTE OF TECHNOLOGY AND SCIENCE FOR WOMEN

Approved by AICTE New Delhi & Affiliated to JNTU Kakinada An ISO 9001:2019 Certified Institution Peda Palakaluru, Guntur-522009, Andhra Pradesh

Department of Electronics and Communication Engineering CERTIFICATE OF PARTICIPATION

This is to certify that Dr VISHNU PRIYA THOTAKURA, faculty of SRK INSTITUTE OF TECHNOLOGY has participated in "A One Week National Level Faculty Development Program on Recent Advances in Electronics and Communication Engineering – An approach through AI & ML" during 21st to 26th August 2023.

Dr. G. Sandhya

Tucleeco

Dr. P. Radhika



CERTIFICATE ID: B23NFDPCC1574



Dept. of CSE JNTUK UCEN







CERTIFICATE OF PARTICIPATION

PROUDLY PRESENTED TO

VISHNU PRIYA THOTAKURA SRK INSTITUTE OF TECHNOLOGY

has successfully participated in the

One Week National Level Faculty Development Program on Cloud Infrastructure (AWS)

organized by Dept. of CSE, JNTUK University College of Engineering Narasaraopet, Andhra Pradesh

in collaboration with Brainovision Solutions India Pvt Ltd and All India Council for Technical Education (AICTE)

During the period of 21st to 25th August 2023.

We commend your dedication to enhancing your knowledge in cloud infrastructure and AWS technologies.

Your active participation and engagement during the program have contributed to its success.

AUTIONS S

GANESH NAG DODE

OR SWA RAMA KRISHNA T.

PRINCIPAL Condinator & HoD-CSE
INTUK UCEN
TITUTE OF TECHNOLOGY

SAK INSTITUTE OF TECHNOLOGY ENIKEPADU, VIJAYAWADA-521 108. PROF. CH. SRINIVASA RAO Principal DR. BUDDHA CHANDRASHEKHAR Chief Coordinating Officer All India Council for Technical Education

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STAR INTERNATIONAL

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Tiruchengode-637211, Namakkal-Dt, Tamil Nadu, India



e-Certificate of Recognition

This is to certify that Prof/Dr/Mr/Ms Dr VISHNU PRIYA THOTAKURA, ASSOCIATE

PROFESSOR OF ECE, SRK INSTITUTE OF TECHNOLOGY has actively participated in " 5

DAYS ONLINE WORKSHOP ON SPSS IN RESEARCH " organized by Star International

Foundation for Research and Education on 26.12.2023 to 30.12.2023.

оп 30-12-2023

Certificate ID GILVVO-CE001380

Contra .

Dr.S. Sekar Founder/ Managing Trustee

PRINCIPAL













Certificate ID: 88FDP2324000198

This is to certify that

Dr. Vishnu Priya Thotakura

has successfully completed the course requirements for Faculty Development Program on Large Language Models in Artificial Intelligence from 04 Oct 2023 - 07 Oct 2023 jointly conducted by Andhra Pradesh Information Technology Academy, a Unit of Department of IT 6 ES, Government of Andhra Pradesh and Blackbuck Engineers Pvt Ltd.

CHARLES CALLED A CONTROL OF THE CONT

DR RAMA KOTA REDDY CEO, APITA Annothe Constant

ANURADHA THOTA CEO, BLACKBUCKS









Certificate Of Participation

Awarded To

Vishnu Priya Thotakura

Participated in 10 Hours National Faculty Development Program on
Deep Learning and Artificial Intelligence
organized by Andhra Pradesh State Skill Development Corporation (APSSDC) in
Collaboration with ExcelR Edtech Pvt. Ltd.
Date: 26th Feb to 1th March 2024.

rom

Ram Tavva CEO, ExcelR Edtech Pvt. Ltd. Recei Xm

Dr. Gujjula Ravi Chief General Manager-Technical, APSSDC 28

Dr. Vinod Kumar V.

IAS, Managing Director & Chief
Executive Officer, APSSDC

PBR VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE



(AUTONOMOUS)

(Affiliated to J.N.T.U.A, Approved by AICTE and Accredited by NAAC)

KAVALI – 524201, S.P.S.R Nellore Dist., A.P., India.

CERTIFICATE OF PARTICIPATION



This certificate is presented to

Dr VISHNU PRIYA THOTAKURA

of

SRK INSTITUTE OF TECHNOLOGY

for the successful completion of one week Faculty Development Program (FDP) on "OBE & NEP 2020", during 10th to 14th June 2024, jointly organized by Internal Quality Assurance Cell - IQAC, PBR VITS, Kavali and VIT-AP University, Amaravathi.

Eminent Speakers

*Dr. P S Rama Sreekanth, Director, RAAC, VIT-AP * Dr. Chandu D S, Asst. Director, RAAC, VIT-AP

Co-Coordinator, IQAC

SRK INSTITUTE OF TECHNOLOGY ENIKEPADU, VIJAYAWADA-521 108, Coordinator, IQAC

White Spot Syndrome Detection in Shrimp using Neural Network Model

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Abstract - White Spot Syndrome Virus (WSSV) epidemics have seriously harmed penacid shrimp aquaculture all over the world. There remains an absence of information concerning these complicated viral-host interactions, despite significant attempts to describe the virus, the circumstances that cause infection, and the processes of infection. This understanding is required to develop reliable and efficient treatment strategies for WSSV. Mechanisms for segmenting and categorizing images offer a method for extracting features from images based on their objects. Those certain objects are produced using an image segmentation technique in which segments are formed by grouping together pixels with similar spectral properties that are close to one another. The area of interest on any underlying image is protected by image segmentation, a crucial step before actual analysis is recommended in any image processing methodology. In fact, the effectiveness of the segmentation algorithm used will have a big impact on how accurate any image processing performs. This study proposes a typical segmentation technique for segmenting shrimp variability by using essential Canny-GLCM (Gray Level Co-occurrence Matrix) features with a simple Artificial Neural Network (ANN) model.

Keywords- White spot syndrome virus, shrimp, segmentation algorithm, Artificial Neural Network

1. INTRODUCTION

Shrimp sales volume in 2021 are expected to be at least 8.9% higher than they were in 2020, with the shrimp farming sector expected to grow by more than 5% in 2022 [1]. Fig. 1 describes the shrimp production levels from the year 2010 to 2022. The Global Shrimp Aquaculture Production Review and Prediction were created using industry data and the findings of a survey conducted by the Global Seafood Alliance. Ecuador's strong growth this year, which could reach 10% by the end of the year, is due in part to the sector rebounding after being slowed by the Covid pandemic in the first year. However, the rate of growth has been significantly higher than the Combined Annual Growth Rate (CAGR) of around 4% experienced in the decade ending in 2020 [2-7]. Most of the world was still under quarantine, and there were still issues with people being unable to find work in the processing plants. There were weather issues, high feed costs and so on. Table I shows the shrung growth in percentage for various regions.

White Spot Disease (WSD) is a prominent disorder among shrimps that will contaminate shrimp farms and direct more threats to the economy. WSD developed from the White Spot Syndrome Virus (WSSV) which is a rod-shaped Deoxyribonucleric Acid (DNA) virus with more additional virious and is categorized in the family Nimaviridae called genus Whispovirus [8-11]. It is considered as a severe virus pathogen of penaeid shrimp cultivated which is widely disseminated globally. Penaeid Shrimps namely Penaeus Merguiensis, P. indicus and P. monodon are magnificent shrimp species which is cultivated around the earth [12]. Similar to other species, these can develop a severe infection. Fig. 2 represents abnormal shrimp. The virus is infecting the

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Hierarchical Sugeno-FIS based Multi-hop Routing Protocol for Health Monitoring in WBANs

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Abstract- WBANs, or wireless body area networks, have recently gained attention as a potentially useful tool in the field of health monitoring. However, maximizing energy efficiency in WBANs is challenging due to the nodes' limited battery life. In this research, we propose a Hierarchical Sugeno Fuzzy Inference System (FIS) based routing for health monitoring that minimizes energy consumption while maintaining a high level of accuracy. The protocol also utilizes multi-hop routing to increase network coverage and maintain network connectivity over longer periods of time. The simulation results demonstrate that the proposed method is more efficient and has a longer lifetime for the network than the state-of-the-art protocols. The protocol also utilizes multi-hop routing to increase network coverage and maintain network connectivity over longer periods and stability. The proposed method is more efficient than the existing method based on simulation results and has a longer lifetime for the network than the stateof-the-art protocols.

Keywords— Energy-Efficient, FIS, Network Lifetime, Routing, WBANs.

I. INTRODUCTION

Wireless Body Area Networks (WBANs) are networks of wearable or implantable sensors and devices that are used for health monitoring, sports, entertainment, healthcare applications, such as remote patient monitoring, disease diagnosis, emergency medical response and military applications. WBANs are networks that are formed by a collection of small devices that are designed to be placed on or attached to the body and that are capable of wirelessly communicating with one another. However, WBANs face several challenges, including limited battery life, low transmission range, and high interference [1-3].

The sensor nodes are not have enough battery power capacity due to small in size of battery that's why to increasing functionality nodes in network of is the one of main motivation of this paper The main objective to developing an energy-efficient routing protocol.

The energy consumption, bandwidth, transmission power, and processing power of each sensor node in a WBAN are limited. With the help of WBANs, medical professionals can respond quickly from any distance. As a family typically spends over 20% of their income on medical expenses, it is essential in the present era. The energy or battery power of wireless sensor nodes is often limited [4].

WBANs have many advantages over wired health monitoring systems, such as mobility, flexibility, and noninvasiveness. A major application of WBANs is health monitoring, which enables medical practitioners to remotely and in real-time check the health state of patients. The limited energy and computing resources of the nodes, the dynamic topology of network, strict quality of service (QoS) requirements make it difficult to implement a health monitoring protocol in WBANs that is energy efficient. As a result, reliable routing protocols are essential for maximizing network efficiency and extending the life of the network [9].

M-ATTEMPT protocol is developed based on the thermal aware routing. In this paper, the author selected route path based on the heat of sensor nodes with threshold limit. The heat of sensor nodes more than given threshold values sensors are not involved in routing. The sensors have below threshold limit heat, nodes are participating in routing process. This protocol consumes are energy, less stability period and have more path loss [5].

The SIMPLE protocol was designed to reduce energy consumption throughout the routing process. In this protocol, the sensor nodes' distance from one another and their current energy states determine which node will act as the parent. However, this protocol has a lower throughput but provides a longer network lifetime and stability period [6].

To extend the overall lifetime of WBAN, an efficient routing protocol that consumes the least amount of energy is required data is sent from sensors to sink. Therefore, this work proposes a Fuzzy Logic (Sugeno-FIS) based routing that minimizes energy consumption by intelligently choosing the parent node. Through simulations, we illustrate the efficacy of our proposed protocol.

In recent years, fuzzy logic has emerged as a powerful tool for designing routing protocols in WBANs. Fuzzy logicbased routing protocols use linguistic variables to represent the network parameters, such as signal strength, battery level, and distance, and use fuzzy rules to make routing decisions. Fuzzy logic-based routing protocols have shown promising results in improving the network lifetime and reducing energy consumption [7].

However, existing fuzzy logic-based routing protocols suffer from some limitations, such as high computational complexity, poor scalability, and low accuracy in handling dynamic network conditions. Therefore, there is a need for a new hybrid routing protocol that combines the strengths of fuzzy logic with other optimization techniques to overcome these limitations and improve the network performance [8].

The purpose of this study is to present a proposal for building that is efficient routing protocol for use in WBANs for the purpose of health monitoring. The clustering strategy, which separates the network into small clusters in order to limit the amount of energy that is consumed, is the foundation of the protocol that has been proposed. A rounge algorithm is used in the protocol to determine the best route

Voice Based Medicine Reminder

Peace of mind in your pocket - our medicine reminder has you covered

Project Idea

- > Many times it is not possible for elder people to take medicine on time because of their age and sometimes they forgot to take the medicine. It creates an health issue, so, this kind of project can help a lot in that case.
- > It is also help the care taker to remind the time of giving medicine for the bed ridden patients.

Hardware Components Used

- ➤ Arduino Nano
- >LCD 1602
- >12C Module
- >RTC Module(DS2321)
- >Resistors-10K
- > Pash Buttons
- >CMOS Battery
- ➤GSM A7670C
- Loud Speaker, LED
- >DF Mini Player
- > IR detectors
- Servo Motor

Software Used

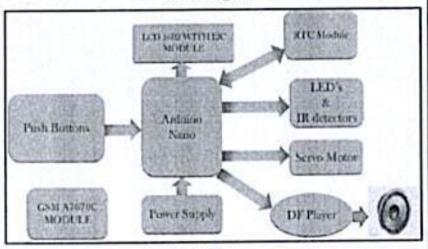
Arduino IDE Software

> Advantages:

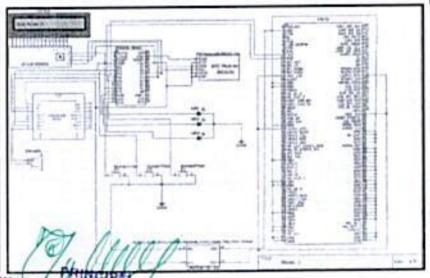
Adherence

- > Improved Convenience
- Medication
- Customization
- Accessibility
 - > Disadvantages:
- Privacy and Security Concerns
- User Error

Block - Diagram



Circuit - Diagram



Working Principle

Ollser Input: The user inputs their medication details into the reminder system, including the medication names, dosages and specific times for taking each medication.

Schedule Creation: Based on the user input, the reminder system creates a personalized medication schedule. This schedule includes the times when each medication should be taken.

. Reminder Alerts: At the designated times specified in the schedule, the reminder system sends alerts or notifications to the user to remind them to take their medications in the form of buzzer and voice message and call alert with acknowledgement if medicine is not taken by the user.

Conclusions

Automated medicine reminders offer convenience, accuracy, and potentially improved adherence to medication schedules. By integrating technology with healthcare, patients can better manage their prescriptions, reducing the risk of missed doses and improving overall health outcomes. However, ensuring user-friendly interfaces and addressing privacy concerns are crucial for widespread adoption and effectiveness.

References

https://www.researchgate.net/publication/ 356783053_An_Automated_and_Online-Based Medicine Reminder and Dispenser

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Tesla Dojo

"Driving AI Forward: Tesla's Cutting Edge Dojo Supercomputer"

Introduction To Tesla Dojo

an advanced project by Tesla, focusing on artificial AD technology.

ager-smart computer designed to process luage at and train AI models quickly.

Features of Tesla Dojo

ing Tesla Dojo can learn from vast amounts of dat time, making curs smarter on the road almost

very: With its lightning-fast processing, Tesla Dego alyses real-time data to help cars make split-second using drivers and pedestrians safe.

Design of Tesla Dojo

Architecture: Tesla Dojo could feature a lesign, allowing for easy scalability and in to adapt to evolving AI needs.

is Fleet Learning: Dojo could facilitate s fleet learning, allowing Tesla vehicles to its and experiences to collectively improve viour and safety.

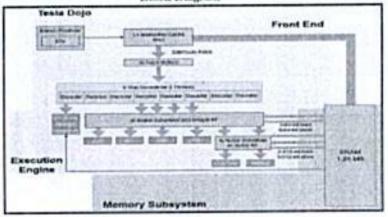
Latest Updates

assumed plans to spend \$500 million to build a r named 'Dojo' in Buffalo. The new supercomputer will neess millions of tembytes of data from Tesla's electric Jako's Reverbend Gigafactory. A update on Jan 29th.

fedrood, this affortable electric cut is slated to exer-2025 at Tesla's Texas Gigafactory, significant tasking sustainable transportation accessible to a wider white on Feb 16th.

trying to ward off competitors including OpenAI in mee to big thing. An update on Apt 4th

Block Diagram



Images of Tesla Dojo



hate Stock Fried on Fair Value Commete



Working Principle

Tesla Dojo utilizes specialized hardware, software frameworks, a algorithms for efficient AI training, focusing on parallel processis computing. Its strength lies in swiftly handling large data volume neural network architectures, aiming to significantly reduce train models.

Applications

Advanced Autonomous Driving The primary application of Tesla advanced autonomous driving capabilities of Tesla vehicles. It will network training and inference for real-time derision-making.

Advantages:

Inquoved Latency and Real-Time Performance: The integration of educated analysis Dojo to process data closer to the source, reducing latency decision-making.

Disadvantages:

Cybersecurity Challenges: The integration of advanced AI systems lifely-bersecurity risks that must be carefully addressed to protect the introduct data.

Future Outlook

Unleashing the power of Dojo: It is on track to become one of the AI training supercomputers, offering unprecedented computing propotentially transform various industries, from automotive to bealthe entertainment, and beyond.

Conclusions

In conclusion Tesla Dojo supercomputer leverages custom la optimizations to accelerate AI training, potentially using special distributed computing techniques. Its aim is to significantly relarge-scale. AI models, fostering faster advancements is development.

References

- https://chipsandcheese.com/2022/09/01/hot-chips-34-teslas-d microarchitecture/
- https://www.forbes.com/sites/stevendickens/2023/09/11/teslasupercomputer-a-paradigm-shift-in-supercomputing/?sh=744



RINCIPALA, Nikhitha (22X45A0423)







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Department of Computer Science and Engineering

Performance Based Appraisal System (PBAS) for Professors As per UGC Guidelines 2010 For the period 2023 to 2024

Summary Sheet

Name of the Faculty: Dr.A.Radhika

Department: CSE

S.No.	Evaluation parameter	Max API Score	Minimum Score required	Self-Score	DFAC Score	IASC Score
1	Service in the College	75	-	75	70	70
2	Curricular Activities	450		345	295	295
3	Co-Curricular Activities	150	-	60	50	50
4	Research &Development	250	60	100	95	15
5.	Administrative and Extra-curricular activities	150	-	130	115	115
Total		1000	550	710	625	625

Signature of faculty	Radhie			
Signature(s) DFAC members	1 Radhike	2 K. Clesitanyo	3	MS-
Signature(s) of IASC members	" Mullery	27.604	3 5	sriquu

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PART - A Service in the College

Maximum API Score:: 50

1 Personal Details:

1.	Name	Dr.A.Radhika	
2.	Present Designation	Professor	
3.	Name of the Department	CSE	
4.	College level administrative post (if any)		
5.	Employee Identification Number	CS02	
6.	Date of Appointment to the present post	09-12-2009	
7.	Date of birth	10-01-1976	
8.	Address	Flatno 2d2, Krishna Godavari Apartment Papullamill center, Kanuru Vijayawada	
9.	Contact details	E-mail : radhikankala@gmail.com Telephone : 9885986856 Mobile : 9885986856	

2 Educational qualifications (starting from degree):

Programme	Period of study	University	Marks/CGPA	Class obtained
Phd	07-02-2020	Rayalaseema University	Awarded	Awarded
BTech(CSE)	2017	Sri Rama Institute of Technology for Sciences "JNTUH	76%	Ist class With Distiction
M.Tech(CSE)	2009	Nimra Institute of Science and Technology, JNTUK	78%	Ist class With Distinction
Master of Computer Applications	2000	Rajiv Gandhi college of PG Courses,Andhra University	74%	Ist class
BSC in Computers	1996	Rajamahendri college for women, Andhra University	72%	Ist class
Intermediate	1993	,Board of	78%	Ist class with



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		IntermediateEducation		Distinction
SSC	Nivedita Kishore Vihar English Medium High school, Rajahmundry March 1991	Nivedita Kishore Vihar English Medium High school	83%	Ist class with Distinction

3 Experience (starting from present position):

S.No.	Designation	Institution	From	To
1	Professor	SRK Institute of Technology, Vijayawada	04-12-2023	Tilldate
2	Associate Professor	SRK Institute of Technology	03.11.2020	03-12-2023
3	Sr. Assistant Professor	SRK Institute of Technology	09-01-2010	02-11-2020
4	Assistant Professor	Nimra Institute of Science and Technology, Vijayawada	01-08-2007	09-01-2010
5	Assistant Professor	PVP Siddhartha college of Engineering Vijayawada	10-06-2005	31-07-2007
6	Lecturer	Koneru Lakshmaiah college of Engineering, Vijayawada	01-06-2004	09-06-2005
7	Lecturer	Gayatri Vidya Parishad College of Engineering, Visakhapatnam	01-03-2001	20-05-2004



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PART-B PART I - Curriculum Activities

Maximum API Score: 450

1.1. Teaching weekly load allotted by the department as per time table

Semester-1		Semeste	Semester-II		
Name of the course	Weekly Load	Name of the course	Weekly Load	Total load	of weekly load
Devops	6+6+4+ 4	ML	6+6+4+4	20	20
		Total load	1		20

Score details for	Maximum score Self-score		DFAC score	IASC score	
	40	40	35	35	

1.2. Total lecture periods taken in the previous two semesters

Sen	iester-I		Semester-II				
Name of the course	T/P	Score	Name of the course	T/P	Score		
Devops	75	28	CNS	75	28		
					-		
Average score of semester-I		28	Average score of semester-II		28		

Score = T/P * 20

Score details for 1.2	Maximum score	Self-score	DFAC score	IASC score
	20	20	15	15

T: Number of lectures taken as per concerned course attendance register

P: Number of lectures proposed in the concerned course lesson plan



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1.3. Course files (All the claimed contents should be available in the course file)

	ALMONO PROPERTY OF THE	Weightage	Maximum	Seme	ster-l	Seme	ster-II
S.No	Contents of course file	points per course per semester	points per semester	Course Name	Course Name	Course Name	Course Name
1	Syllabus page	0.5	1	0.5	0.5	0.5	0.5
2	Lesson plan	1	2	1	1	1	1
3	Lecture Notes	3	6	3	3	3	3
4	Question bank (Unit wise)	2	4	2	2	2	2
5	Internal examination question papers with CO mapping	1	2	1	1	1	1
6	Internal examination marks copy	0.5	1	0.5	0.5	0.5	0.5
7	Internal examination CO, PO assessment	2	4	2	2	2	2
8	End Semester results copywith Analysis	1	2	1	1	1	1
9	End semester examination CO, PO assessment	2	4	2	2	2	2
10	Improvements to be brought in next time course delivery	1	2	1	1	1	1
11	Assignment questions with CO mapping	1	2	1	1	1	1
12	Course End Survey evaluation	1	2	1	1	1	1
13	Scheme of evaluation for end semester examination	3	6	3	3	3	3
14	Any other (with approval of IASC)	1	2	1	1	1	1
	num points	20	40	20	20	20	20
	of Semester-1 & Semeste			40		40	
Averag	ge of Semester-I &Seme	ester-II		40			



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Score details for	Maximum score	Self-score	DFAC score	IASC score
	40	40	35	35

1.4. External examination invigilation / evaluation duties

Nature of the Duty Performed	Points per duty	74 74 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Total number of	Total points	
	(described)	Semester-I	Semester-II	duties performed	. National	
External examination answer sheets evaluation	5	1	1	2	10	
External examination invigilation	1	5	5	10	10	
Lab external examination examiner	5	2	2	4	20	
Seminar – Internal examiner	5	1	1	2	10	
Mini Project- Internal examiner	5	1	1	2	10	
Major Project – Internal examiner	5	1	1	2	10	
Term Paper – Internal examiner	5	5	5	10	50	
Any other works*	1	1	1	2	2	
				Total points	122	

^{*}Any other works related to external examination with approval of IASC

Score details for	Maximum score	Self-score	DFAC score	IASC score
	80	80	75	75

1.5. Internal examination invigilation / evaluation duties

Nature of the Duty Performed	Points Number of dutie per duty performed			Total number of	Total points	
		Semester-I	Semester-II	duties performed		
Internal descriptive examination answer sheets evaluation	1	1	1	2	2	
Internal objective examination answer sheets evaluation	1	1	1	2	2	
assignment books	1	1	1	2	2	

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evaluation			1		
Internal examination invigilation	1	5	5	10	10
Lab internal examination examiner	1	2	2	4	4

Score details for	Maximum score	Self-score	DFAC score	IASC score	
	20	20	15	15	

11.6. Use of innovative teaching methodologies

Teaching methodology	Number of points per course per semester	Max. points per semester	Semester- I points	Semester- II points	Average points of two semesters
Power point presentations with own annotations and minimum 10 slides per course per semester	5	10	5	5	10
Visuals (Topic Related own video/simulation created)	5	10	5	5	10
Entire course content uploaded in MOODLE server	10	20			
				Total points	20

Note: All teaching methodology works should be recorded in the teaching diary of concerned course attendance register and proofs should be authorized by HoD.

Score details for	Maximum score	Self-score	DFAC score	IASC score
	20	20	15	15

1.7. Remedial classes / Bridge Courses / Content beyond syllabus / Etc.

Details of item	Semest	er-				Semester - II				Average	
	Name	of	No.	of	Semester	Name	of	No.	of	Semester	semester



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	the course	classes taken	- I points	the course	classes taken	– II points	I and semester- II points
Remedial classes	ML	10	20	Devops	10	20	20
Bridge courses	ML	10	20	Devops	10	20	20
Career oriented course				GATE coaching in CN	10	20	10
Content Beyond Syllabus	Devops additional concepts	5	10	CNS additional concepts	3	6	8
Additional experiments designed and conducted beyond curriculum	Devops 3 additional Programs	3	15	CNS 1 Additional Program	1	5	10
Job oriented Certificate Courses	CISCO:In troduction to Cybersecu rity	30	30	CISCO:Int roduction to Python Pragramm ming	30	30	30
						Total points	98

Details of item	Minimum classes required	Points per class	Maximum points
Remedial classes	5	2	10
Bridge courses	5	2	10
Career oriented course	5	2	10
Content Beyond Syllabus	5 concepts	2	10
Additional experiments designed	2 experiments	5	10



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and conducted beyond curriculum				
Job oriented Certificate Courses	10	1	10	

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.7	40	40	35	35

1.8 Percentage of passes

Semester – I			Semester – II			
Name of the course	Percentage of pass	Points per course	Name of the course	Percentage of pass	Points per course	
Devops	97.8	30	CNS	98.51	30	
Average points	s of semester-l	30	Average points	s of semester-II	30	

Note: Don't include laboratory courses here.

Percentage of pass	<55%	55-64.99%	65-74.99%	75-85%	>85%
points	10	15	20	25	30

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.8	30	30	25	25

1.9. Student feedback on teaching

	Semester -			Semester - I	1
Name of the course	Feedback obtained	Points per course	Name of the course	Feedback obtained	Points per course
Devops	5	30	CNS	5	30



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Average points of semester-I	30	Average points of semester-II	30
------------------------------	----	-------------------------------	----

Note: Feedback for laboratory courses also can be included here

Feedback	<3	3 to 3.49	3.5 to 3.99	4 to 4.49	4.5 to 5
Points	10	15	20	25	30

Score details for 1.9	Maximum score	Self-score	DFAC score	IASC score	
	30	30	25	25	

1.10 Project Guidance (Mini project/major project/seminar/term paper)

Semester – I Batch – 1 Title of Project:		Semester - II				
		Batch - 1 Title of Project: Facial Attendance System				
						Register no's of students
			19X41A0529	A		
		-	19X41A0522	Α		
			19X41A0532	A	5	
			19X41A0562	A		
Average score of Batch-1 in semester-I (B1)		4.75	Average score of Batch-1 in semester-II (B2)			
Average score	of batch-1 in tv	vo semester	rs (S): (B1+B2)/2 =			
Batch - 2			Batch - 2			
Title of Project:			Title of Projec	Title of Project		



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Register no's of students	Grade	Score (S1)	Register no's of students	Grade	Score (S2)
			19X41A0513	A	
			19X41A0528	A	
		5	19X41A0536	A	5
			19X41A0558	Α	_
X 200					

P = 20 points if SCI/Scopus paper (journal / conference) published from the work of theproject (This publication should not be shown under Part - 3)

Project Grade	A+	A	В	C	
Points	30	25	20	15	

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.10	50	25	25	25

Title of the course	Offered	Duration of course with dates	Percentage of marks obtained	100 Mar 140 C 111	Average points of one semester	Average points of two semesters
JI KEELS		Semester = I	19 0			
		Semester = II				-5
					32.9	

Note: Full course of at least 6 weeks duration only to considered. Points for a course with exam: 20*Percentage of marks obtained



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Points for a course without exam: 10

Score details for	Maximum score	Self-score	DFAC score	IASC score
555	20			

1.12. Involvement of Faculty in syllabus framing (BOS)

For BOS members:

Date(s)of BOS meeting attended: ___15-09-23 _____Points:20

For non-BOS members:

Title of course(s) for which syllabus prepared:

Points: 10 for each course

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.12	20	20	20	20

1.13 Student Internships

Name & Regd, no. of student received internship through your guidance	The second second	Duration of internship	Amount received by student (paid internship) for internship	Points
Total points				

Paid Internship: 5 points per student (Max.: 20 points) Non-paid internship: 1 point per student (Max.: 20 points)

Score details for 1.13	Maximum score	Self-score	DFAC score	IASC score
	20	-	-	



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1.14 MOU's

Details of MOU	Validity of MOU (Mention date(s))	Task fulfilled as per below table	Points
CISCO		Programming Essentials in Python	
		Introduction to Cyber security	
Total points			7.

Task No.	Tasks	Points
1	Students projects in the industry	10 per batch
2	Guest lectures	5
3	Arranging industry training to faculty & students	10
4	Training provided by our faculty to industry people	20
5	Internships for our students (paid internship)	5 per student
6	Industry visit	10
7	Placements for our students in that industry	20 per student
8	Our faculty in the board members of that industry	10
9	Entrepreneurship programs conducted for our students	5

Score details for	Maximum score	Self-score	DFAC score	IASC score
	20	-	-	_

Total score of part-I



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Department of Computer Science and Engineering	Department of	Computer	Science and	Engineering
------------------------------------------------	---------------	----------	-------------	-------------

Item no.	Maximum score	Self-score	DFAC score	IASC score
1.1	40	40	35	35
1.2	20	20	15	15
1.3	40	40	35	35
1.4	80	80	75	75
1.5	20	20	15	15
1.6	20	20	15	15
1.7	40	40	35	35
1.8	30	30	25	25
1.9	30	30	25	25
1.10	50	25	20	20
1.11	20	0	0	0
1.12	20	0	0	0
1.13	20	0	0	0
1.14	20	0	0	0
Total score of part-1	450	345	295	295

Part - II Co-Curricular Activities

2.1 Membership of professional societies

Max. Score: 150

Membership offered professional society	Membership number	National / International	Points
		Total points	

Note: International membership=10; National membership=5 points, Don't include online free memberships.

Score details for	Maximum	Self-score	DFAC score	IASC score
Same of the property of the second second				



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2.1	score		
	10		
		-	-

2.2 Departmental development of facilities

Development of facilities	Details of development undertaken	Semester-	Semester - II	Total
a) Laboratory infrastructure up gradation/New Experiment Setup Including MODROB (Utilization of budget)				
 b) Common student facilities – Class Room Services, Basic Amenities, Seminar/Common Halls etc. 				
 c) Addition & use of new software 				
 Any Other - authorized by IASC with the approval of Principal 				
			Total score	

Principal participant = 5 pointsper semester; others = 2.5 points per semester

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.2	10	_	-	-

2.3 Attending or organizing various activities:

Conferences / Seminars / workshops/ FDPs / skill development course / certificate courses / industry training and other similar items

Attended	Da	ites	No of	Title, Place, Month & year details	Points
/ Organized	From	То	Days	5.000 (9/000) 150 (1000)	
Attended FDP	10- 07- 2023	28- 07- 2023	20	Deep Learning for NLP and Computer Vision	
Total point	s				30

Maximum points for attending various events: 30 Maximum points for organizing various events: 30

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Score details for	Maximum score	Self-score	DFAC score	IASC score
2.3	50	50	35	35

Attended	Dat	les	Title, Place, Month & year details	Points
Organized / Delivered	From	То		
			Total points	

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.4	30			

2.5 Accompanied students on industrial tours

Date(s) Places visite	ed No. of days	Points
Total points		

One day trip: 5 points; More than one day trip: 10 points

Score details for 2.5	Maximum score	Self-score	DFAC score	IASC score
2.5	10			

2.6 Student technical events organized

Name of the event	Date(s)	Role	Points
Group Discussion	25-09-2022	Coordinator	10



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Score details for 2.6	Maximum score	Self-score		DFAC score		IASC score
2.0	10	10			5	5
2.7 Student innova	tions; Guidance					
Details of student in	novation	Pla	ce ticipati	of on	Date(s) of participation	Points
Score details for 2.7	Maximum	F-16		-		
	score	Self-score		DFAC score		IASC score
	20	-			-	_
2.8 Consultancy	7637637					7. Mar. 21
Name of the comprovided	pany to which	consultancy	Amo		Total amount	Points
< Rs. 25000/- 2.5 pc	oints; 25000 to 5	50000 – 5 px	pints ; 5	0000 1	to 100000 - 7.5	5 points ; 1000
1000000 - 10 point	Maximum	-				
Score details for	score	Self-sco	ore	DF	AC score	IASC score
2.8	20	-				

Total score of part- II



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Item no.	Maximum score	Self-score	DFAC score	IASC score
2.1	10			
2.2	10			
2.3	50	50	45	45
2.4	30			
2.5	10			
2.6	10	10	5	5
2.7	20			
2.8	20			
Total score of part-II	150	60	50	50

Part - III R &D Related Contributions

Max. Score: 300 (Min. score required: 60)

3.1 Research Publications

Book / Book chapter (Indexed by SCIE / Scopus / UGC only will be considered)

S.No.	Details of Paper	by SCIE / Scopus / UGC
	Author(s) names	
	Name of the book / book chapter	
1	Publisher details	
	ISBN no.	
	Page no(s), Month & Year of publication	



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Points: Book: SCIE - 50, Scopus - 40, UGC - 30

Points: Book chapter: SCIE - 40, Scopus - 30, UGC - 20

Paper publication(s) in journals (Indexed by SCIE / Scopus / UGC only will be considered)

S.No.	Details of Pap	er	Indexed by SCIE / Scopus / UGC	Points
	Author(s) names	Dr.A.Radhika		30
	Name of the paper	Motorcycle Safety helmet detection for the two wheeler motorcyclist		
1	Publisher details	International Journal of Advanced Science & Technology		
	ISSN no.	2395-0056		
	Page no(s), Month & Year of publication	2023		

S.No.	Details of Pap	er	Indexed by SCIE / Scopus / UGC	Points
73	Author(s) names	Dr.A.Radhika		30
	Name of the paper	Motorcycle Safety helmet detection for the two wheeler motorcyclist		
1	Publisher details	International Journal of Advanced Science & Technology	l ge	
	ISSN no.	2395-0056	430	
	Page no(s), Month & Year of	2023		

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Department of Computer Science and Engineering

	publication			
S.No.	Details of Pape	r	Indexed by SCIE / Scopus / UGC	Points
	Author(s) names	Dr.A.Radhika		30
	Name of the paper	Motorcycle Safety helmet detection for the two wheeler motorcyclist	1- 1	
1	Publisher details	International Journal of Advanced Science & Technology		
	ISSN no.	2395-0056		
	Page no(s), Month & Year of publication	2023		
S.No.	Details of Pape	er .	Indexed by SCIE / Scopus / UGC	Points
	Author(s) names	Dr.A.Radhika		30
	Name of the paper	Motorcycle Safety helmet detection for the two wheeler motorcyclist		
1	Publisher details	International Journal of Advanced Science & Technology		
	ISSN no.	2395-0056		
	Page no(s), Month & Year of publication	2023		

Score details for Maximum Self-score DFAC score IASC sc	ore
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3.1	score			
	100	80		20000
			-	-

3.2 Sponsored Research projects

Details of investigators	The state of the s	Sanctioning agency	Amount sanctioned / applied	Date of application	Project sanctioned / result awaited	Points
					Total points	

Project amount	Sanctioned (points)	Result awaiting (points)	No. of investigators allowed
More than Rs.20 Lakhs	40	12	5
Rs.10 Lakhs - 20 Lakhs	30	09	4
Rs.5 Lakhs -10 Lakhs	20	06	2
< Rs.5.0 Lakhs	10	03	2
SAGTE projects	10	-	2

Score details for	Maximum score	Self-score	DFAC score	IASC score
3.2	40	-	-	-

3.3 Conferences / symposia papers presented

Conference proceedings (Indexed by SCIE / Scopus, UGC only will be considered)

S.No.	Details of Paper	Indexed	Points
		by SCIE /	
		Scopus /	



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Score	e details fo	or	Maximu	m	Self	score	DF	AC score		IASC score
								Total poir	nts	
inven	The second second	patent		100	tering	year of	0.000	Granted	02	Tomas
3.4 Pa	atents ls of	Title	of the	Pater	n#	Month	and	Published	1	Points
			30		8			_		-
Score	details fo		Maximu score	m	Self-	score	DF	AC score		IASC score
	Month Year conferen	of nce								
1	Confere details	nce								
	Name o	f the								
	Author(s	5)								
										UGC

Score details for 3.4	Maximum	Self-score	DFAC score	IASC score
3.4	20	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-

3.5 Incubation center established

Details of incubation center	Month	&	Year	of	Points
Committee of the commit	establish	ment			
	1-5000000000000000000000000000000000000				



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Max points: 10; Pris	ncipal coor	dinator: 100	0%; others (with	n acti	ve participation	on)=80%	
Score details for 3.5	Maximu score	m	Self-score		AC score	IASC score	
3.3	20		-		-	_	
3.6 Centre of Exce	llence esta	blished					
#1 . 14	ntre of	The state of the s	& Year nent	of	Points		
Max points: 10; Pri					ve participation	on)=80%	
Score details for 3.6	Maximu score	m	Self-score	DFAC score		IASC score	
3.0	20		-		-	_	
3.7 Ph.D related ac Ph.D award		our guidance	c		-	0 points	
Details of scholar		provide Minimum and the same of the same o	university			th of Ph.D award	
Score details for 3.7	Maximu	m s	self-score	DFAC score		IASC score	
35000	20		-		-	_	
		Total s	core of part- I	п			
Item no.	Maxin	num score	Self-score		DFAC scor	e IASC sco	
	100			_			

 Item no.
 Maximum score
 Self-score
 DFAC score
 IASC score

 3.1
 100
 100
 95
 95

 3.2
 40
 3.3
 30
 30



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3.4,	20				
3.5	20				
3.6	20				
3.7	20				
Total score of part-III	250	100	95	95	

PART-IV Administrative and Extra-curricular activities

Max. Score: 100

4.1 Departmental Administration

S.No.	Activity	SEM-I	SEM-II	Total points
1.	In-charge of time tables (10 /sem)			1000
2.	Attendance in-charge(10/sem)			
3.	Internal marks in-charge(10/sem)			
	Mini / Major Project			
4.	Coordinator/Review Members			
5.	Exams In-charge (10)			
6.	Library in-charge			
7.	Lab In-charge			
8.	Discipline(class teacher)			
9.	Professional Society Related Coordinators (Based on the events conducted)/Department Association			
10.	Module / Course Coordinator			
11.	Departmental R&D Coordinator			
12.	Media Coordinator			
13.	Departmental News Letter Editor/Members			
14.	ISO (Coordinator)			
15.	TEQIP Coordinator			
16.	Alumni Coordinator			
17.	NBA/NAAC Participation(10 /sem)	10	10	20
18.	Grievance cell			
19.	Anti-ragging Committee	10	10	20
20.	Vigilance			
21	Programme Coordinator(15 /sem)*			
22	Answer script in-charge			
23	Induction day			
24	Farewell day		2.5	42.5
25	Any Other - authorized by chairman CAS standing committee with the approval of Principal			

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Department of Computer Science and Engineering

	Total points	82.5
e mor com!	Coordinator = 100%; other	es = 500/

Each activity = 5 points per year; 2.5 points per sem; Coordinator =100%; others = 50%

Score details for	Maximum score	Self-score	DFAC score	IASC score
	40	40	35	35

4.2 Institutional level administration

S.No.	Activity	SEM-I	SEM-II	Total points
1.	NBA Participation(NBA Common Criteria Preparation Coordinators)	5	5	10
2.	NAAC	5	5	10
3.	Autonomous/Examination Section			
4.	TEQIP Nodal Officers			
5.	R&D Committee Member/Paper Incentive Member			
6.	Maintenance of Central facilities (telephone, internet, electrical, water works, hostel, Sports etc.)	11		100
7.	Career Guidance Cell	5	5	10
8.	Grievance cell anti ragging	5	5	10
9.	ISO Co-ordinator			
10.	Any other such as Hostel Warden etc.,			
			Total points	40

Each activity/sem = 5 points; Coordinator=100%; others=50%

Score details for	Maximum score	Self-score	DFAC score	IASC score	
· · ·	60	60	55	55	

4.3 Institutional Events Organization members, Sports Participants

S.No.	Activity	SEM-I	SEM-II	Total points
1.	Annual day	-	10	10
2.	Cultural activities		10	10
3.	Sports participation		10	10
4.	Any Other as approved by IASC and by Principal approved			
	ASSESSMENT OF THE PROPERTY OF THE PARTY OF T		Total points	30

Each activity = 10 Points/sem:

Score details for	Maximum	C-16	DEAG	
4.3	score	Self-score	DFAC score	IASC score

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30	30	25	25

4.4 NSS / NCC / Other Service activities

S.No.	Activity	SEM-1	SEM-II	Total points
1.	NCC / NSS activities	1		
2.	NSS/ NCC Coordinator(10)			
3.	Women grievance cell activities	1		
4.	Health camps			
5.	Blood camps			
6.	Service to poor			
7.	Service to Disabled			
8.	Charity camps etc.	4		
9.	Any Other as approved by IASC and by Principal approved			
			Total poi	nts

Each activity = 5 points/sem

Score details for	Maximum score	Self-score	DFAC score	IASC score
	10	_		

4.5 Training & other Misc. activities

S.No.	Activity	SEM-I	SEM-II	Points
1.	Training and placements- Departmental T&P Coordinator=20 points; others = 10 points			Tomas .
2.	Institute News letter Editorial board: 10 points; ArticleContributors:5 points(From Dept);			
3.	Material contribution to news letter/Annual Day Report/House Journal from Department ArticleContributors:5 points(From Dept)			
4.	Any Other as approved by IASC and by Principal approved			
			Total points	

Score details for 4.5	Maximum score	Self-score	DFAC score	IASC score
-	score		23.50 GHz = 103/25	1018/4009-10000



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10	=	-	_

Total score of part- IV

Item no.	Maximum score	Self-score	DFAC score	IASC score	
4.1	40	40	35	35	
4.2	60	60	55	55	
4.3	30	30	25	25	
4.4	10				
4.5	10				
Total score of part- IV	150	130	115	115	

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Department of Computer Science and Engineering Artificial Intelligence & Machine Learning (CSM)

INDIVIDUAL TIME TABLE



			Facult	y Name: T.	Prasanna			
Time	9:00 To 9:50	9:50 To 10:40	10:45 To 11:35	11: 35 To 12:20	1:10 To 2:00	2:00 To 2:45	2:50 To 3:35	3:35 To 4:20
Period	1	2	3	4	5	6	7	8
MON		MFCS (II CSM)	OOR (III CSM)			OOR (III CSD)		
TUE		(II Cost)	OOR (III CSD)			OOR (III CSM)		MFCS (II CSM)
WED	OOR (III CSD)		(III CSD)		OOR (III CSM)	MFCS (II CSM)		OOR (III CSM)
THU	(III CSD)		MFCS (ILCSM)		OOR (III CSD)			
FRI	OOR (III CSM)			1	MFCS (II CSM)	1.7.7.1	MFCS (II CSM)	
SAT	(III COM)	OOR (III CSD)			OOR (III CSM)		OOR (IILCSD)	

2			Faculty	Name: Dr./	A.Radhika						
Time	9:00 To 9:50	9:50 To 10:40	10:45 To 11:35	11: 35 To 12:20	1:10 To 2:00	2:00 To 2:45	2:50 To 3:35	3:35 To 4:20			
Period	1	2	3	4	5	6	7	8			
MON		DevOps (III CSM)			DevOps (III CSD)		DevOps (III CSM)				
TUE	(iii Casi)								DevOps (III CSD)		DevOps (III CSM)
WED	DevOns		Control of the Contro		+	DevOps L	AB (III CSD)	SD) →			
THU		(iii colly)			DevOps (III CSM)		250	12.0			
FRI			DevOps (III CSD)								
SAT	DevOps (III CSD)			DevOps (III CSM)		DevOps (III CSD) ure of the H(0				



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Department of Computer Science and Engineering INDIVIDUAL TIME TABLE

SRKIT / CSE / 10.2

Academic Year: 2023-2024

Semester: II

Wef: 28-12-2023

				Faculty N	Name: Dr.A	.RADHIK	A		
	Time	9:00 To 9:50	9:50 To 10:40	10:45 To 11:35	11: 35 To 12:20	1:10 To 2:00	2:00 To 2:45	2:50 To 3:35	3:35 To 4:20
L	Period	1	2	3	4	5	6	7	8
	MON					← M	INI PROJECT (I SEM M.TEC	(H) ->
	TUE		CNS (III CSE-A)						
۲	WED		CNS (III CSE-A)						
	THU		CNS (III CSE-A)	a seem of the control			CNS (III CSE-A)		
	FRI			CNS (III CSE-A)		+	C & N S Lab	(III CSE-A	→
	SAT		(III CSE-A)						

			Faculty Nan	ne: Mr.D.	V.SUBBA RA	10		
Time	9:00 To 9:50	9:50 To 10:40	10:45 To 11:35	11: 35 To 12:20	1:10 To 2:00	2:00 To 2:45	2:50 To 3:35	3:35 To 4:20
Period	1	2	3	4	5	6	7	8
MON			DBMS (II CSE-A)			DBMS (II CSE-B)		DBMS (II CSE-A
TUE			DBMS (II CSE-B)		← r	BMS L	ab (II CSE-A	Control of the second
WED			DBMS (II CSE-A)		DBMS (II CSE-B)			DBMS (II CSE-B)
THU			DBMS (II CSE-A)		← D	BMS L	ıb (II CSE-E))
FRI			DBMS (II CSE-B)		DBMS (II CSE-A)			
SAT		- 29-			DBMS (II CSE-B)		DBMS (II CSE-A)	

Signature of the HOD Ladwin

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Department of Computer Science and Engineering RESULT ANALYSIS

Result Analysis of III B. Tech II Semester (R20)

Dt. 20-08-2024

AY-2023-24

SECTION-A & B

SEM-II

Description	No. of students	Total No. of students	Percentage
Total subject passed	108	135	80.00 V
One subject failed	14	135	10.37
Two subjects failed	05	135 .	3.70

Subject wise Passed Students

Subject Name	No of Students Appeared	No of students passed	Pass Percentage	Faculty Name
MACHINE LEARNING	135	129	96.27	Dr.V.Srinivas Rao
COMPILER DESIGN	135	112	84.21	Ch.Ramya Bharathi
CRYPTOGRAPHY AND NETWORK SECURITY	135	129	96.27	Dr.A.Radhika, K.Durga Bhavani
MACHINE LEARNING USING PYTHON LAB	135	132	99.25	Dr.V.Srinivas Rao
COMPILER DESIGN LAB	135	134	100.00	Ch.Ramya Bharathi
CRYPTOGRAPHY AND NETWORK SECURITY LAB	135	134	100.00	Dr.A.Radhika, K.Durga Bhavani
SKILL ORIENTED COURSE-IV MEAN STACK TECH	135	134	100.00	Ch.Pavani
EMPLOYABILITY SKILLS-II	135	135	100.00	N.Gayathri Devi
OBJECT ORIENTED ANALYSIS AND DESIGN	135	129	96.99	V.Vijaya Durga
MEAN STACK DEVELOPMENT	135	125	95.42	Ch.Pavani

CSE-HOD

PRINCIPAL-SRKIT



SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108



Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning)

Result Analysis of III B. Tech I Semester (R20)

Dt. 02-03-2024

AY-2023-24

CSE (AI&ML) SEM-I

Description	No. of students	Total No. of students	Percentage
Total subject passed	45	64	70.31 3
One subject failed	13	64	20.31
Two subjects failed	02	64	3.12

Subject wise Passed Students

Subject Name	No of Studen ts Appear ed	No of students passed	Pass Percentage	Faculty Name
CONTINUOUS INTEGRATION AND CONTINUOUS DE	64	64.00	100.00	Dr.A.Radhika
EMPLOYABILITY SKILLS-I	64	64.00	100,00	P.Farzeena Khanan
OPTIMIZATION IN OPERATIONS RESEARCH	64	54.00	84.38	T.Prasanna ?
COMPILER DESIGN	64	61.00	95.31	R.Lakshmi
OPERATING SYSTEMS	64	60.00	93.75	G.Hema Sudha Rani
MACHINE LEARNING	64	54.00	84.38	Dr.N.Neelima Priyanka ?
OPERATING SYSTEMS & COMPILER DESIGN LAB	64	64.00	100.00	G.Hema Sudha Rani
MACHINE LEARNING LAB	64	64.00	100.00	Dr.N.Neelima Priyanka
SUMMER INTERNSHIP 2 MONTHS (MANDATORY) A	64	64.00	100.00	Dr.K.Chaitanya
DEVOPS	64	62.00	96.88	Dr.A.Radhika

Rodhike CSE-HOD

PRINCIPAL SRKIT

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STUDENT COUNSELLING MANAGEMENT SYSTEM USING MERN STACK

¹Dr.A.Radhika, ²M.Tejaswini, ³M.Sai Satyanarayana, ⁴S.Pavani, ⁵Ch.Deekshitha, ⁶Ch.Rupa Sri

Professor, 23.434 Students, Department of Computer Science and Engineering, SRK Institute of Technology, Vijayawada, A.P., India.

1.Abstract: Counselling system defines the relationship between the mentor and the student. To automate the traditional method where faculty needs to enter the student's data in the paper. The main goal of the project is to reduce the paperwork, maintain transparency between the student and teacher, and to store the details of the student for longer period.

student's institutional Nowadays. information is stored manually. The mentors(counsellor) are allotted to the certain number of students by the admin where the mentor needs to enter the student information like results. attendance, entire information about student in all aspects like certification courses, extra circular activities and coaccular activities done by a student. The students register and then login into their account where their account has been created while registering. The students need to upgrade their certifications by iploading on the website. They need to provide feedback for the institution on the website. Admin needs to map the counsellor and the students, where the mentor gets access to only the allocated student's data like results, attendance, certificates, and additional information.

The project provides authentication and security to the given information.

2.Index Words: Mentor, Transparency, Results, Certificates, Attendance, Feedback.

3.Introduction:

Overview: This project is designed in such a way where the mentor enters the student's data. Here the data refers to the attendance and results. The students enter the required information like uploading certificates and giving feedback where the admin maps the students to the respective mentor.

About Project: In this website we use authentication where password different student's login through their password which is private. The website is designed in such a way to reduce the maintain paperwork and to the transparency between the mentor and student. Here the admin maps the students to the mentor where the admin sets the limit for student and mentor by mapping only certain number of students to the

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INNOVATIVE RESEARCH (JETIR)

An International Scholarly Open Access, Paur-reviewed, Refereed Journal

E-LIBRARY MANAGEMENT SYSTEM USING DJANGO FRAMEWORK

¹ Dr. Ankala Radhika ² Kammili Balanandini ³ Noorbasha Mabul Basha 4 Meripo Sushma Glory 5 Gonela Sannihitha

Professor, Department of Computer Science and Engineering, SRK Institute of Technology, Vijayawada, Andhra Pradesh, INDIA

23.43 Students, Department of Computer Science and Engineering, SRK Institute of Technology, Vijayawada, Andhra Pradesh, INDIA

ABSTRACT

The E-library management system project aims to simplify the process of accessing and managing library resources. Users can search for books, check availability, view issued books, and track fines for late returns. Librarians can manage the collection, update information, and check borrowing history for smooth library operations. This system provides a user-friendly interface for quick and easy access to library resources. Students and faculty can search for resources using an internet-connected device, making it more convenient and efficient for both library staff and users. Tracking essential information like issue dates, return deadlines, and fines. This system ends the need for paperwork, streamlining processes and improving overall library efficiency.

Index Terms: E-library, accessing library resources User-friendly interface, Internet-connected device, Library staff, bettering history, automatic fine allocation.

INTRODUCTION

1.1 Overview

An E-Little management system is a software program designed to streamline the organization and functions of a college literate it can help with tasks such as cataloging books, managing library collections, tracking books and returns, and generaling fines. The system can also provide a user-friendly interface for students and faculty to search for and access lineary resources.

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Evaluation of Student Success Across the Subjects using MERN Stack

Dr.A.Radhika¹, K. Aparma², P. Surmanth³, S. Sruthi⁴, P. Sushmitha⁵ Professor, 2.1.4.1B. Tech Students, Department of CSE, SRK Institute of Technology, Vijayawada, A.P. India

Abstract: The Evaluation of Student Success across the Subjects is an essential tool in educational institutions, facilitating the efficient management and dissemination of student performance data. This paper presents the design and implementation of a SRMS using the MERN stack, an innovative technology stack comprising MongoDB, Express.js, React.js, and Node.js. The proposed system leverages the full-stack JaveScript environment to enhance the interactivity, real-time data processing, and user experience of the SRMS.React is is employed on the frontend to provide an intuitive and dynamic user interface, making it easier for users to interact with the system effectively. We discuss the development process, focusing on the integration of these technologies, and demonstrate how the MERN stack facilitates rapid development and deployment of a web-based application. The system's performance is evaluated based on criteria such as response time, data integrity, and user satisfaction. Initial results indicate that the SRMS is not only faster and more reliable but also provides enhanced occessibility and user engagement compared to traditional systems.

This paper aims to countries to the academic community by providing insights into the application of the MERN stack in developers educational tooks, thereby suggesting a pathway for future research and development in educational technology DISCO

Keywords: View results. CGPA and SGPA calculations, Number of Backlogs.

INTRODUCTION

In communication the Student Result Management System (SRMS) plays a vital role in managing and sharing student performance are efficiently. This paper introduces the design and implementation of an SRMS using the MERN stack, which metades Mongroom Express ps. React.js., and Node.js. This project can collect and analyze data on student performance, track many state array out over time, identify areas of improvement, and generate reports for educators and administrators. By using the MERN state, actions and educational institutions can streamline the evaluation process and provide more personalized support for students across actions subjects. A character marks of every scholar must be displayed and revealed at a keystroke in step with any decided in farmer. An essential useful resource for instructors and college students to choose their performance. Merit listing printing was way of means of totals for a category via way of means of character concern marks for a category. Student overall performance at a specific situation or all of the topics should be expressed.

The man narrow of this project is to check the results of the students and can declare the merits. The Admin can add and update the details and realist and careful. The Admin secure the data. The Faculty can see all Students Results and can know how many students to it has particular semester. Every user can make use of portal by entering their Id's and passwords to login and there has present a regards. Evaluating student success across subjects involves assessing student performance in different academic discourse to pain a comprehensive understanding of their overall academic achievements. This process includes reviewing grades, sement soft semester points grade average), egpa(cumulative grade point average) and percentage, and other relevant metrics to Accepted to a students are performing in various subjects. By examining student success across subjects, educators can some the student, tailor instruction to meet individual needs, and provide targeted support to help purposes to react their full academic potential.

LITERATURE REVIEW

An appeared studies is accomplished to research the running of current structures with the intention to circulate in addition with put and terms tracking System.

FOR present structures are taken into consideration greater relatable to the proposed system. The literature survey is mentioned 00.091



ALUMNI MANAGEMENT SYSTEM

Dr. A. Radhika¹, Shaik Mayraaj², B. Devisree³, B. Surendra Sai⁴, B. Uma Ganesh⁵

Professor¹, Student^{2,1,4,5}, SRK Institute of Technology, NTR, Andhra Pradesh, India Mayraajjilani153@gmail.com

ABSTRACT

The Alumni Management System facilitates seamless communication and networking within an educational institution's alumni community. It offers comprehensive functionalities for both students and administrators, including registration, profile management, event updates, job updates, and gallery exploration. Administrators benefit from tools for event coordination, feedback analysis, and job posting. The system aims to foster a strong sense of community, supporting career growth, knowledge exchange, and mentorship opportunities. Future enhancements may include social media integration, alumni directory features, and advanced analytics for Alumni engagement tracking, further enhancing its value in nurturing lifelong connections and professional development withinthe alumni network.

Key Words: Alumni, Admin, Student, Registration, Profile Management, Job updates, Event Management, Feedback analysis.

INTRODUCTION

The Alumni Management System aims to set up a website to nurture lifelong communication between students and their institute by knowing the events in their institute and by getting mentor opportunities. In this website, the alumni will first register and then login with the credentials and then the admin willvalidate the registered student information and accept them. By admin acceptance, the alumni will get a confirmation mail along with their login information. Then the alumni can log in at any time with their folks see all the updates from their institute and give feedback. The greatest asset any institution can have is the alumni system. Alumni are the people who represent the institutions in the real world. This is an online website that allows former students to take advantage of the benefits and services that an institution offers after graduation the former students can also know the updates of their institution even after graduation and the alumni can also get the opportunity of mentoring the current students and the students can also raises funds which are useful for in the development of the institutions. The alumni network is becoming important institution because of its vast potential that benefits both the institution and the students. There are many benefits to being an alumni member of a college or institution. Some of these benefits are keeping a person informed on the events that are organized by the institution, getting job updates, meeting their classmates, and when some important events are going to be held in the institution. Another benefit is that the information concerning a former student can easily be received and other members of the alumni community can be located without much difficulty. The students and alumni can communicate with each other and -this website is used to build lifelong communication.

LITERATURE REVIEW

1. Lavanya, Supriya, Bhargavi, Aswini, Swarajya Lakshmi authored the paper titled "ALUMNI MANAGEMENT SYSTEM USING WEB TECHNOLOGIES"

This system will be available for general public use through the web interface. A nonregistered visitor can look at the list of graduates according to year of graduation. A graduate can use it for the building of his virtual web identity on the internet.

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Optimization of Natural Language Processing Models for Multilingual Legal Document Analysis

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Abstract—Multilingual legal document analysis poses unique challenges in the field of Natural Language Processing (NLP) due to the intricacies of legal language and the diverse linguistic landscape of legal texts across jurisdictions. This paper presents an optimization framework designed to enhance the performance of NLP models specifically tailored for multilingual legal document analysis. The proposed framework incorporates advanced techniques in preprocessing, feature engineering, and model architecture to address the complexities inherent in legal language. Leveraging multilingual embeddings and domain-specific knowledge, the model demonstrates improved accuracy in tasks such as named entity recognition, sentiment analysis, and document categorization across a range of languages. Additionally, the optimization framework emphasizes the importance of domain adaptation, acknowledging the numbers and variations in legal terminology across different legal systems. Through a combination of transfer learning and fine-tuning strategies, the model adapts to specific legal domains, ensuring rubust performance la diverse legal contexts. Experimental results an a comprehensive dataset of multilingual legal documents validate the effectiveness of the proposed optimization framework. Comparative analyses with baseline models showcase significant improvements in precision, recall, and everall model performance. The findings underscore the potential of the optimized NLP model for applications in legal information retrieval, contract analysis, and legal knowledge management in a multilingual context. This research contributes to the growing body of knowledge in NLP and legal informatics, offering a valuable resource for researchers, practitioners, and developers working on multilingual legal document analysis. The optimized model presented in this paper has the potential to enhance the efficiency and accuracy of automated systems in handling legal texts across diverse linguistic environments.

Keywords—Natural Language Processing (NLP), Multilingual Legal Document Analysis, Document Categorization, Transformer-based Models, RERT

I INTRODUCTION

An increasing number of jurisdictions are producing digital legal documents on an exponential scale, which highlights the need for sophisticated Natural Language Processing (NLP) models that can analyse multilingual legal texts efficiently. Due to its specificity, intricacy, and jurisdiction-specific munces, legal language presents particular difficulties for automated comprehension[1]. The

creation of NLP models specifically designed for the analysis of multilingual legal documents is becoming more and more necessary as scholars and legal professionals struggle with the enormous amounts of legal data. In order to extract pertinent information, comprehend intricate legal ideas, and make well-informed decisions, legal practitioners must analyse legal texts. The number of multilingual legal writings and growing globalisation have increased the need for efficient Natural Language Processing (NLP) models that can handle a wide range of languages and legal subtleties. Through the optimisation of current NLP models, this research seeks to solve the difficulties involved in the interpretation of multilingual legal documents[2]. The framework covers a number of topics, including as domainspecific embeddings, cross-lingual transfer learning, dataset considerations, model architecture, and ethical issues.A unique category of papers, legal texts are distinguished by the intricate interactions between language patterns, specialised terminology, and subtle contextual meanings.

Natural language processing (NLP) models are confronted with substantial problems when it comes to the complexities of legal language, which necessitate a profound comprehension of both the legal context in which these texts are situated and linguistic subtleties[3]. Although NLP models have shown a great deal of success in a variety of applications, there hasn't been much research done on how well they work in the multilingual legal realm. Language-specific legal jargon, cultural variances, and different legal systems all add levels of intricacy to multilingual legal documents. A distinct set of difficulties that call for specific attention are presented by the complexities of translating legal concepts while maintaining their intended meanings in other languages. The field of multilingual NLP has witnessed significant advancements in recent years, with the development of transformer-based models such as BERT (Bidirectional Encoder Representations from Transformers)[4]. These models, pretrained on large and diverse text corpora, have demonstrated remarkable capabilities in capturing contextual information and understanding language mances across multiple languages. However, the adaptation of these advanced NLP models to the domain of legal text processing remains a relatively unexplored frontier. Legal documents often contain highly specialized vocabulary, intricate syntactic

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Social media Based cyber bullying detection Jeevana Priya Chintala, Dr. A. Radhika

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ABSTRACT

Increasing internet use and facilitating access to online communities such as social media have led to the emergence of cybercrime. Cyber bullying is a pervasive issue on the internet, affecting both teenagers and adults, and leading to severe consequences such as suicide and depression. The need for stricter content regulation on social media platforms has become increasingly apparent. This study addresses the problem of cyber bullying by utilizing data from two different forms: hate speech tweets from Twitter and comments containing personal attacks from Wikipedia forums. The research focuses on building a robust cyber bullying detection model using Natural Language Processing and machine learning. Three distinct methods for feature extraction and four classifiers are thoroughly examined to identify the most effective approach. This proposed system aims to provide a proactive solution for the detection and prevention of cyber bullying, thereby promoting a safer online environment Keywords: Machine Learning, Cyberbullying, Social Media, Twitter.

INTRODUCTION

Cyber bullying is bullying online. Most of the time, if not all the time over social media. Cyber bullying is often not physical, which means that the people being cyber bullied feel mental pain instead of physical. Cyber bullying started when social media was made, and there's been more and more cases since. Cyber bullying expresses the acts of the slanders, gossips, threaten harassment, insult, abashing and excluding someone on the digital world. It is a new generation bullying. Cyber bullying has influence on people more psychological. Seventy percent of people are exposed to cyber bullying every year .It is usually being done via fake accounts. Some people who are exposed to cyber bullying are thinking of suicide. Authorities and parents have to talk to children about cyber bullying .They should listen to them without judging. Adults should be role model about respecting the others. Children have to be taught to fight with cyber bullying. People who are suffering from cyber bulling should be encouraged to talk about what they live. We mustn't be a cyber-bully. Cyberbullying on social media platforms is a pervasive issue with limited and often ineffective content moderation Mechanisms. The main drawbacks of the existing system are Limited Detection Capabilities that is the existing system relies on basic and outdated methods, resulting in suboptimal cyberbullying detection capabilities, often failing to identify nuanced forms of online harassment. Due to the lack of real-time monitoring and preventive measures, the current system provides delayed responses, allowing cyberbullying incidents to escalate before any intervention occurs, so to address the shortcomings of the existing system by employing advanced Natural Language Processing and machine learning techniques to detect and prevent cyberbullying more effectively. To perform this the present existing system follows different plan of actions such as Gathering extensive datasets from various social media platforms, including Twitter and Wikipedia, containing examples of cyberbullying. Data Preprocessing to implement data cleaning, text normalization, and feature extraction techniques to prepare the data for analysis. From those preprocessed data different methods are explored for feature extraction that includes TF-IDF, word embeddings, and sentiment analysis. Model Selection is done by evaluating multiple machine learning algorithms and PRINCIPAL



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Evaluation of Student Success Across the Subjects using MERN Stack

Dr.A.Radhika¹, K. Aparna², P. Sumanth³, S. Sruthi⁴, P. Sushmitha⁵ Professor, 2.1.4.1B. Tech Students, Department of CSE, SRK Institute of Technology, Vijayawada, A.P., India

Abstract: The Evaluation of Student Success across the Subjects is an essential tool in educational institutions, facilitating the efficient management and dissemination of student performance data. This paper presents the design and implementation of a SRMS using the MERN stack, an innovative technology stack comprising MongoDB, Express.js, React.js, and Node.js. The proposed system leverages the full-stack JavaScript environment to enhance the interactivity, real-time data processing, and user experience of the SRMS. React js is employed on the frontend to provide an intuitive and dynamic user interface, making it easier for users to interact with the system effectively. We discuss the development process, focusing on the integration of these technologies, and demonstrate how the MERN stack facilitates rapid development and deployment of a web-based application. The system's performance is evaluated based on criteria such as response time, data integrity, and user satisfaction. Initial results indicate that the SRMS is not only faster and more reliable but also provides enhanced accessibility and user engagement compared to traditional systems.

This paper aims to contribute to the academic community by providing insights into the application of the MERN stack in developing educational tools, thereby suggesting a pathway for future research and development in educational technology systems

Keywords: View results, CGPA and SGPA calculations, Number of Backlogs.

INTRODUCTION

In educational institutions, the Student Result Management System (SRMS) plays a vital role in managing and sharing student performance data efficiently. This paper introduces the design and implementation of an SRMS using the MERN stack, which includes MongoDB, Express.js, React.js, and Node.js. This project can collect and analyze data on student performance, track individual progress over time, identify areas of improvement, and generate reports for educators and administrators. By using the MERN stack, schools and educational institutions can streamline the evaluation process and provide more personalized support for students across different subjects. A character marks of every scholar must be displayed and revealed at a keystroke in step with any decided on format. An essential useful resource for instructors and college students to choose their performance. Merit listing printing via way of means of totals for a category via way of means of character concern marks for a category. Student overall performance in a specific situation or all of the topics should be expressed.

The main purpose of this project is to check the results of the students and can declare the merits. The Admin can add and update the details and results when needed. The Admin secure the data. The Faculty can see all Students Results and can know how many students have failed in that particular semester. Every user can make use of portal by entering their Id's and passwords to login and check the student's results. Evaluating student success across subjects involves assessing student performance in different academic disciplines to gain a comprehensive understanding of their overall academic achievements. This process includes reviewing grades, semester spga(semester points grade average), cgpa(cumulative grade point average) and percentage, and other relevant metrics to determine how well students are performing in various subjects. By examining student success across subjects, educators can identify the strengths and weakness of the student, tailor instruction to meet individual needs, and provide targeted support to help students to reach their full academic potential.

LITERATURE REVIEW

An associated studies is accomplished to research the running of current structures with the intention to circulate in addition with pupil end result tracking System.

Four present structures are taken into consideration greater relatable to the proposed system. The literature survey is mentioned below:

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CERTIFICATE

OF PARTICIPATION

This is to certify that

Dr. A Radhika

participated in 5 Day's Online International Faculty Development Program on Data Analyst organized by Andhra Pradesh State Skill Development Corporation (APSSDC)

in Collaboration with Excellin.

Date: 19th June 2023 to 23rd June 2023

Dr Ravi Gujjula

Breed Kinn

CGM Technical, APSSDC

Ram Tavva

CEO Excel® Solutions



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Signing Authority

September 10th, 2022



THE EXECUTIVE Council, has approved and admitted



Dr. A. Radhika

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FACULTY PERFORMANCE APPRAISAL FORM

Performance Based Appraisal System (PBAS) for Associate Professors As per UGC Guidelines 2010 For the period 2023 to 2024 Summary Sheet

Name of the Faculty: Dor. G. D. K. kishore
Department: Information Technology (IT)

S.No.	Evaluation parameter	Max API Score	Minimum Score required	Self-Score	DFAC Score	IASC Score
1	Service in the College	50		25	25	25
2	Curricular Activities	400	****	380	380	380
3	Co-Curricular Activities	150	****	0F	0F	40
4	Research &Development	250	50	-	-	-
5.	Administrative and Extra-curricular activities	150		145	145	145
Total	Commence of the commence of th	1000	550	620	620	620

Signature of faculty	Costool.	
Signature(s) DFAC members	1 Carshmi 3 (Det -
Signature(s) of IASC members	1 (7/ what 2 1. lat 9 3.	Sni Gow

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FACULTY PERFORMANCE APPRAISAL FORM

PART - A Service in the College

Maximum API Score:: 50

1 Personal Details:

1	Personal Details:	0 0 0 1 1 1 1 2 2 2
1.	Name	Da. G. D. k. kishoje
2.	Present Designation	Associate Professor
3.	Name of the Department	Internation Technology
3. 4.	College level administrative post (if any)	03
5.	Employee Identification Number	TNFOL
6.	Date of Appointment to the present post	Associate Professor (HOD)
7.	Date of birth	June 30 1984
S.	Address	Balaji Nagas, Krishnalanka
9.	Contact details	E-mail : Krishna-galla1 @gmail-cem Telephone : 9494943253

2 Educational qualifications (starting from degree):

Programme	Period of study	University	Marks/CGPA	Class obtained
P.6	3008-2010	TUNUK		first
B-Tech	2003 - 2006	INTUK		finst

3 Experience (starting from present position):

1. Associate professão SEKIT 2014 2022 2. Assistant professão SEKIT 2014 2022	1 Associate professoi sexit 202 till date	S.No.	Designation	Institution	From	To
The state of the s	The state of the s			CD KIT	202	HIII date
		2.			2014	5022

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FACULTY PERFORMANCE APPRAISAL FORM

PART-B PART I – Curriculum Activities

Maximum API Score: 400

1.1. Teaching weekly load allotted by the department as per time table

Semester-I		Semester			Average
Name of the course	Weekly Load	Name of the course	Weekly Load	Total load	of weekly load
AUP	7	S with R	6		
H-commerce	5				
	12		6		
	-	Total load			18

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.1	50	50	50	50

1.2. Total lecture periods taken in the previous two semesters

Semester-I			Sem	ester-II	
Name of the course	T/P	Score	Name of the course	T/P	Score
AUP	50/50	1	s with R	50/50	1
H-commerce	50/50	1			
Average score of ser	nester-I	1	Average score of sen	nester-II	1

- T: Number of lectures taken as per concerned course attendance register
- P: Number of lectures proposed in the concerned course lesson plan

Score = T/P * 20

Score details for 1.2	Maximum score	Self-score	DFAC score	IASC score
	20	20	20	20

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FACULTY PERFORMANCE APPRAISAL FORM

1.3. Course files (All the claimed contents should be available in the course file)

nts of course file s page plan e Notes on bank vise) al examination on papers with apping al examination	Weightage points per course per semester 0.5 1 3	Maximum points per semester 1.5 3 9 6	Course Name	Name Name	Name 1 2	Name
plan Notes on bank vise) al examination on papers with apping al examination	0.5	3	2 6		2	2
plan Notes on bank vise) al examination on papers with apping al examination	3	9	6			
e Notes on bank vise) al examination on papers with apping al examination	3	-	6		6	1
on bank vise) all examination on papers with apping all examination		6	L		-	
on papers with apping al examination	1		-1		Ψ.	Ψ
al examination		3	3		3	3
copy	0.5	1.5	1		1	1
al examination O assessment	2	6	4		4	4
emester results with Analysis	1	3	5		2	5
emester ination CO, PO	2	6	4	_	4	4
ovements to be ght in next time	1	3	3	1	3	3
gnment tions with CO	1	3	2		5	2
rse End Survey uation	1	3	2		2	2
eme of luation for end sester mination	3	9	6		6	6
y other (with proval of IASC)	1	3	11	0	ч	0 40
points emester-1 & Sem	ester-II	60	4			
The same and the s	sment ovements to be ght in next time se delivery gnment tions with CO ping rse End Survey uation eme of uation for end ester mination vother (with roval of IASC) points emester-I &Sem	sment ovements to be ght in next time se delivery gnment tions with CO ping rse End Survey uation eme of uation for end ester mination vother (with roval of IASC) points 20	sment overments to be ght in next time se delivery gnment tions with CO ping rse End Survey uation eme of unition for end ester mination vother (with royal of IASC) points 1 3 9	sment ovements to be ght in next time se delivery gnment tions with CO ping rse End Survey uation eme of uation for end ester mination other (with roval of IASC) points emester-I &Semester-II	sment ovements to be ght in next time se delivery gnment tions with CO ping rse End Survey uation eme of uation for end ester mination other (with roval of IASC) points emester-I &Semester-II	sment ovements to be ght in next time se delivery gnment tions with CO ping rse End Survey uation eme of uation for end ester mination vother (with roval of IASC) points sement 1

Score details for	Maximum Self-score score		DFAC score	IASC score	
	60	60	60	60	

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FACULTY PERFORMANCE APPRAISAL FORM

1.4. External examination invigilation / evaluation duties

Nature of the Duty Performed	Points per duty	Number of duties performed		Total number of	Total points
		Semester-I	Semester-II	duties performed	
External examination answer sheets evaluation	5	5	5	10	10
External examination invigilation	t	5	5	10	10
Lab external examination examiner	5	5	5	10	10
Seminar Internal examiner	5				
Mini Project- Internal examiner	5				
Major Project - Internal examiner	5	5	5	10	10
Term Paper - Internal examiner	5	5	5	10	10
Any other works*	1			Total points	50

*Any other works related to external examination with approval of IASC

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.4	20	20	20	20

1.5. Internal examination invigilation / evaluation duties

Nature of the Duty Performed	Points per duty	Number of duties performed		Total number of	Total points
· Citamina	*250290.*C	Semester-1	Semester-II	duties performed	
Internaldescriptive examination answer sheets evaluation	1	2	Q	ų	ч
Internalobjective examination answer sheets evaluation	1				
assignment books evaluation	1	10	5	15	15
Internal examination invigitation	1.	10	10	20	२०
Lab internal examination examiner	1	ı	1	2	2

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PERFORMANCE APPRAISAL FORM

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Score details for	Maximum score	Self-score	DFAC score	IASC score
	20	20	20	20

1.6. Use of innovative teaching methodologies

Teaching methodology	Number of points per course per semester	Max. points per semester	Semester- 1 points	Semester- II points	Average points of two semesters
Power point presentations with own annotations and minimum 10 slides per course per semester	5	10	lo	lo	10
Visuals (Topic Related own video/simulation created)	5	10	10	10	10
Entire course content uploaded in MOODLE server	10	20			
			100	Total points	20

Note: All teaching methodology works should be recorded in the teaching diary of concerned course attendance register and proofs should be authorized by HoD,

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.6	20	20	20	20

1.7. Remedial classes / Bridge Courses / Content beyond syllabus / Etc.

Details of item	Semester - 1			Semester -	Average		
	Name of the course	No. of classes taken	Semester - I points	Name of the course	No. of classes taken	Semester - II points	semester- 1 and semester- 11 points
Remedial	AUP	5	to	swith R	5	lo	lo

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FACULTY PERFORMANCE APPRAISAL FORM

Bridge courses Career							
oriented course							
Content Beyond Syllabus	Aup	5-	to	s with R	5	10	10
Additional experiments designed and conducted beyond curriculum	Roject	2	lo	Project			5
Job oriented Certificate Courses							À
						Total points	25

Details of item	Minimum classes required	Points per class	Maximum points
Remedial classes	5	2	10
Bridge courses	5	2	10
Career oriented course	5	2	10
Content Beyond Syllabus	5 concepts	2	10
Additional experiments designed and conducted beyond curriculum	2 experiments	5	10
Job oriented Certificate Courses	10	1	10

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.7	10	10	10	10

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FACULTY PERFORMANCE APPRAISAL FORM

1.8. Mentoring with proper records

Item	Semester 1	Semester 11	Total No. of sessions taken	Points per session	Total score
No. of counseling sessions done	5	5	10	5	SD se don't conside

Note: Mentoring record should be in faculty hand writing only. Otherwise don't consider.

Score details for 1.8	Maximum score	Self-score	DFAC score	IASC score
	20	20	20	20

1.9 Percentage	Semester -1		Semester - II			
Name of the course	Percentage of pass	Points per course	Name of the course	Percentage of pass	Points per course	
AUP	76.19		swith A	95-71	18-31	
H-Commerce	100					
Average points of semester-1		25	Average points of semester-II		30	

Note: Don't include laboratory courses here.

Percentage of pass	<55%	55-64.99%	65-74.99%	75-85%	>85%
points	10	15	20	25	39

Score details for	Maximum score	Self-score	DFAC score	IASC . tore
1.9	30	30	30	. 30

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FACULTY PERFORMANCE APPRAISAL FORM

1.10. Student feedback on teaching

Semester - 1			Semester - 11			
Name of the course	Feedback obtained	Points per course	Name of the course	Feedback obtained	Points per course	
· QUP	97.57	14-81	swith R	97-57	18- 41	
H-commerce	98	19				
Average points of semester-I		98	Average point	Average points of semester-II		

Note: Feedback for laboratory courses also can be included here

<3	3 to 3.49	3.5 to 3.99	4 to 4.49	4.5 to 5
10	15	20	25	30
	<3	10 15	10 15 20	10 15 20 25

Score details for 1.10	Maximum score	Self-score	DFAC score	IASC score
	30	30	30	30

1.11 Project Guidance (Mini project/major project/seminar/term paper)

Semester-1 Batch-1 Title of Project: E-commerce chatbot fa price Negotiation using NP				Semester - II			
			Batch - 1				
			Title of Project: Vistual House of Evations using webarn				
Register no's of students	Creade	Score	Register no's of students	Grade	Score		
202419123	A	52	<i>จ</i> องษาคาวบ	A	45		
20x41ATB3	A	52	PISTATIVAGE	A	32		
20XUIAI2U2	A	२ऽ	2024191260	A	52		
POZUIBIZUU	A	125	BOSIAZPXIS	A	25		
Average scor	e of Batch-1 in	100	Average scor	re of Batch-1 in	100		

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FACULTY PERFORMANCE APPRAISAL FORM

semester-II (B2) semester-I (B1) 100 100 Average score of batch-1 in two semesters (S): (B1+B2)/2 = Batch - 2 Batch-2 Title of Project: A Black chain Based Title of Project: A deep learning Register no's Grade Score(SI) Register no's Grade Score(S2) of students of students A+ 4 20x4191218 SOXUIADIO AT DT PORTUROS DECIAIDXOS 5 A" SOXULAL 37 JOYLIA 1202 14 FA FELTIPINAGE 20XUIAI216 A+ A+ SOXUIAIZUS JOXUANS3 Overall score = S+S1+S2+P = 100+5+5+20 = 125

P = 20 points if SCI/Scopus paper (journal / conference) published from the work of the project (This publication should not be shown under Part - 3)

Project Grade	A+	A	В	C
Points	30	25	20	15

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.11	50	50	20	50

1.12. NPTEL/MIT/COURSERA/e x/UDACITY courses completed

Title of the course	Offen d by	Duration of course with dates	Percentage of marks obtained	122751GE 01/2	Average points of one semester	Average points of two semesters
		Semester = 1				
		lisa				-0

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FACULTY PERFORMANCE APPRAISAL FORM

Semester = II	
pita	100

Note: Full course of at least 6 weeks duration only to considered. Points for a course with exam: 20*Percentage of marks obtained

Points for a course without exam: 10

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.12	20	_	_	_

1.13. Involvement of Faculty in syllabus framing (BOS)

For BOS members:

Points:20 Date(s) of BOS meeting attended:_

For non-BOS members:

Title of course(s) for which syllabus prepared:___

Points: 10 for each course

Score details for 1.13	Maximum score	Self-score	DFAC score	IASC score
1.13	20	20	20	20

1.14 MOU's / Student Internships

Name & Regd, no. of student received internship through your guidance	The state of the s	Duration internship	of	Amount received student internship	by for	Points
Total points						

Online Internship (including internshala): 5 points per student (Max.: 20 points) Industry internship (offline): 15 points per student (Max.: 30 points)

Details of MOU	Validity of MOU (Mention	Internships received through	Amount received by	Points
	date(s))	MOU	student (paid	
			internship) for	

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	internship through MOU
Total points	

Each functional MOU: 10 points

Internship received through MOU: 10 points/student (paid internship only) Internship received through MOU: 5 points/student (non-paid internship)

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.14	30	30	30	30

Total score of part-1

Item no.	Maximum score	Self-score	DFAC score	IASC score
1.1	50	50	50	20
1.2	20	20	20	20
1.3	60	60	60	60
1.4	20	50	20	20
1.5	20	20	20	50
1.6	20	20	20	50
1.7	10	10	to	10
1.8	20	20	20	20
1.9	30	30	30	30
1.10	30	30	30	30
1.11	50	20	50	50
1.12	20			
1.13	20	-20	20	-20



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1.14	30	30	30	30
Total score of part-	400	380	380	380

Part - II Co-Curricular Activities

Max. Score: 150

2.1Membership of professional societies

Membership offered professional society	Membership number	National / International	Points
CSI	11502757	International	to
		Total points	10

Note: International membership=10; National membership=5 points, Don't include online

free memberships.

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.1	10	10	ID	10

2.2 Departmental development of facilities

Development of facilities	Details of development undertaken	Semester-	Semester - 11	Total score
a) Laboratory infrastructure up gradation/New Experiment Setup Including MODROB (Utilization of budget)				
 b) Common student facilities Class Room Services, Basic Amenities, Seminar/Common Halls etc. 			ibe:	
c) Addition & use of new software				
 d) Any Other - authorized by IASC with the approval of Principal 				
			Total score	

Principal participant = 5 points per semester; others = 2.5 points per semester



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Score details for	Maximum score	Self-score	DFAC score	IASC score
2.2	10	_	-	_

2.3 Attending or organizing various activities:

Conferences / Seminars / workshops/ FDPs / skill development course / certificate courses /

industry training and other similar items

Attended	Dat	les	No of	Title, Place, Month & year details	Points
/ Organized	From	То	Days	V II	
Hended	ustala	ulsky	6	Reasonach Prosonal writing AI tools	30
Attended	26/4/24	27/404	2	ackep learning Approach with shealist	20
Altended Total point	beluhu	27/4/24	2	n Black chain Pased take product	60

Maximum points for attending various events: 30

Maximum points for organizing various events: 30

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.3	60	60	60	60

Attended	Da	tes	Title, Place, Month & year details	Points
Organized / Delivered	From	То		
			Nil)	- 1
			Total points	

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.4	20			-

2.5 Accompanied students on industrial tours

Date(s)	Places visited	No. of days	Points
	1114		



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FACULTY PERFORMANCE APPRAISAL FORM

otal points					
			Onefete		
One day trip: 5 point		day trip: I	0 points		
Score details for	Maximum score	Self-sco	ore Di	AC score	IASC score
	10	-		_	-
2.6 Student technic	al events organi	zed		To 1	la tra
Name of the event			Date(s)	Role	Points
			Nill		
Role(s): Departmen	t coordinator: 10 Maximum	points, Eve			
Score details for	score	Self-score		FAC score	IASC score
	10	-		=	E
2.7 Student innova	tions; Guidance				
Details of student in	nnovation	- 50	ace of articipation	Date(s) of participation	of Points
			lliq		
			pill		
Score details for	Maximum score	Self-s		DFAC score	IASC score
Score details for 2.7		Self-s		DFAC score	IASC score
STATES AND STREET, STATES AND ST	score	Self-s		azimore aproces	1ASC score

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eill	100000 - 7.5	

< Rs. 25000/- 2.5 points; 25000 to 50000 - 5 points; 50000 to 100000 - 7.5 points; 100001 1000000 - 10 points; more than 1000000 - 20 points

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.8	20	-	-	-

	Total sc	ore of part- II		1150
Item no.	Maximum score	Self-score	DFAC score	IASC score
2.1	10			
2.2	10	10	10	10
2.3	60	60	60	60
2.4	20			
2.5	10			
2.6	10			
2.7	10			
2,8	20			
Total score of part-II	150	70	70	70



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Part - III R &D Related Contributions

Max. Score: 250 (Min. score required: 50)

3.1 Research Publications

S.No.	Book chapter (Indexed by SCIE / Scopus / Details of Paper	Indexed by SCIE / Scopus / UGC	Points
	Author(s) names		
	Name of the book / book chapter		
1	Publisher details		
	ISBN no.		
	Page no(s). Month & Nill Year of		

Points: Book: SCIE - 50, Scopus - 40, UGC - 30

publication

Points: Book chapter: SCIE - 40, Scopus - 30, UGC - 20

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Page no(s).

Page no(s),		
Month &		
Year of		
publication		

Score details for	Maximum score	Self-score	DFAC score	IASC score
3.1	80	-	-	_

3.2 Sponsored Research projects

Details of investigators	Name of the project	Sanctioning agency	Amount sanctioned / applied	Date of application	Project sanctioned / result awaited	Points
			(lia		Total points	

Project amount	Sanctioned (points)	Result awaiting (points)	No. of investigators allowed
More than Rs.20 Lakhs	40	12	5
Rs.10 Lakhs - 20 Lakhs	30	09	4
Rs.5 Lakhs -10 Lakhs	20	06	2
< Rs.5.0 Lakhs	10	03	2
SAGTE projects	10	-	2

Score details for	Maximum score	Self-score	DFAC score	IASC score
3.2	70	_	-	-



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3.3 Conferences / sympos	a papers presented
Conference proceedings (1)	deved by SCIE / Scopus, UGC only will be considered

S.No.	Details of Paper		by SCIE / Scopus / UGC	Points
	Author(s) names Name of the			
1	Conference details			
	Month & Year of conference	Mill		

Score details for	Maximum	Self-score	DFAC score	IASC score
3.3	30			

Details of inventors	Title of the patent	Patent registering agency	Month and year of patent	Published / Granted	Points
		NIII			
				Total points	

Score details for	Maximum score	Self-score	DFAC score	IASC score
3.4	20			_

3.5 Incubation center established

Points Details of incubation center Month Year

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establishment

Max points: 10; Principal coordinator: 100%; others (with active participation)=80%

Active Participation as certified by Coordinator and HOD

Score details for	Maximum score	Self-score	DFAC score	IASC score
3.5	20	11:0		

3.6 Centre of Excellence established

3.6 Centre of Excellence esta Details of centre of excellence	Month & establishment	Year of	Points
	llia	4	na participation)=80%

Max points: 10; Principal coordinator: 100%; others (with active participation)=80%

Active Participation as certified by Coordinator and HOD

Score details for 3.6	Maximum	Self-score	DFAC score	IASC score
	20	4		

3.7 Ph.D related activities

10 points	r sour midance	3.7 Ph.D related activitien Ph.D awarded uncommended
& month of Ph.D award	Awarding university	Details of scholar
	liu	
	will	

Score details for	Maximum score	Self-score	DFAC score	1ASC score
3.7	10	-	-	-



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FACULTY PERFORMANCE APPRAISAL FORM

Total score of part- III

Item no.	Maximum score	Self-score	DFAC score	IASC score
3.1	80			
3.2	70			
3.3	30			1 50
3.4	20			
3.5	20			-
3.6	20			
3.7	10			
Total score of part-III	250			lia

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FACULTY PERFORMANCE APPRAISAL FORM

PART-IV Administrative and Extra-curricular activities

Max. Score: 150

4.1 Departmental Administration

S.No.	Activity	SEM-I	SEM-II	Total points
	In-charge of time tables (10 /sem)			
1.	Attendance in-charge(10/sem)	5	5	10
and the second second	Internal marks in-charge(10/sem)	5	5	10
3.	Mini / Major Project Coordinator/Review Members	5	5	10
4.		10	ID	20
5.	Exams In-charge (10)		1100000	
6.	Library in-charge	5	5	10
7	Lab In-charge			
9.	Discipline(class teacher) Professional Society Related Coordinators (Based on the events conducted)/Department Association			
10.	Module / Course Coordinator			-
11.	to be an		-	10
12		5	5	10
13	Departmental News Letter			
14	ISO (Coordinator)		_	-
15				_
16	Alumni Coordinator			20
17	the state of the s	10	10	70
18	Grievance cell		5	10
19	The state of the s	2		10
20	Vigilance	15	5	
2	Programme Coordinator(15 /sem)*	15	15	30
2				to
2	with the second	5	5	
and the second section of	4 Farewell day	5	5	10
	Any Other - authorized by chairman CAS standing committee with the 5 approval of Principal			100
	- LELL TOTAL		Total poin	ts 180

Each activity = 5 points per year; 2.5 points per sem; Coordinator =100%; others = 50%

Score details for	Maximum score	Self-score	DFAC score	IASC score
4.1	40	40	40	40

The late

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FACULTY PERFORMANCE APPRAISAL FORM

4.2 Institutional level administration

S.No.	Activity	SEM-I	SEM-II	Total points
1.	NBA Participation(NBA Common Criteria Preparation Coordinators)	5	5	10
2.	NAAC	5	5	10
3.	Autonomous/Examination Section	5	5	10
4.	TEQIP Nodal Officers			
5.	R&D Committee Member/Paper Incentive Member	5	7_	to
6.	Maintenance of Central facilities (telephone, internet, electrical, water works, hostel, Sports etc.)			
7.	Career Guidance Cell	5	5	10
8.	Grievance cell anti ragging	5	5	10
9.	ISO Co-ordinator			
10	Any other such as Hostel Warden etc.,			
	ALL STREET, ST		Total points	60

Each activity/sem = 5 points; Coordinator=100%; others=50%

Score details for	Maximum score	Self-score	DFAC score	IASC score
***	50	45	45	45

4.3 Institutional Events Organization members, Sports Participants

S.No.	Activity	SEM-I	SEM-II	Total points
1.	Annual day	5	5	10
2.	Cultural activities	5	5	10
3.	Sports participation	5	5	10
4.	Any Other as approved by IASC and by Principal approved	5	5	10
			Total points	40

Each activity = 5 Points/sem:

Score details for	Maximum score	Self-score	DFAC score	IASC score
4.3	30	30	30	30

4.4 NSS / NCC / Other Service activities

S.No.	Activity	SEM-I	SEM-II	Total points
1.	NCC / NSS activities			
2.	NSS/ NCC Coordinator(10)			
3.	Women grievance cell activities			D /

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4	Health camps			
5.	Blood camps			
6.	Service to poor			
7.	Service to Disabled			
8.	Charity camps etc.			
9.	Any Other as approved by IASC and by Principal	5	5	10
	approved		Total points	D

Each activity = 5 points/sem IASC score Maximum DFAC score Self-score score Score details for 4.4 5 5 10 5

1.5 Tenining & other Misc. activities

	aining & other Misc. activities	SEM-I	SEM-II	Points
S.No.	Activity			
1.	Training and placements- Departmental T&P Coordinator=20 points; others = 10 points			
2.	Dept);	ID	10	20
3.	points(From Dept)			
4.	Any Other as approved by IASC and by		Total points	20

Score details for	Maximum	Self-score	DFAC score	IASC score
4.5	20	20	20	20

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Total score of part- IV

Item no.	Maximum score	Self-score	DFAC score	IASC score
4.1	40	40	uo	40
4.2	50	us us		45
4.3	30	30	30	30
4.4	10	5	5	2
4.5	20	20	२०	50
Total score of part-	150	145	195	142

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Volume: 06 Issue: 03, March 2024

Virtual Mouse Operations Using Webcam

G. Hinda Pt., Dv. G.D.K. Kashers Pt., J. Mohan Sai Pt. P. Chinta Kasim Pt., S. Saketh Pt.
Associate Professor Pt. Student PEPs Pt.
SRK Institute of Technology, Department of Information Technology P (22) Pt.)
Vigyawada, India

Mail 14: 15 The Benefit of Section 19. A short aid to a select com 19, maken salismost provide om 14, chimak has moderned used 1. sales than the 23 Paternal, com 19.

Abstract-This a struct introduces an innovative paradigm for computer interaction that substitutes traditional input modalities such as physical mice and touch displays with Hand Tracking and Gestures. Our system, which was constructed using the Open CV library and Python, implements our puter vision techniques in order to monitor hand movements that are captured by a webcam. Sophisticated gesture recognition algorithms are utilized to convert these hand inovements into mouse controls, thereby enabling users to navigate the system and perform mouse operations in an intuitive manner. Additionally, our system expands its practicality beyond the conventional capabilities of the mouse by integrating hand gestures for volume control, thus enhancing the overall user experience. By leveraging suphisticated computer vision methods, this strategy integrates gestural input into computing environmenta in a seamless manner, resulting in a moreuserfriendly and effective interaction paradigm. Through the utilization of gesture recognition and hand tracking, our system showcases the capacity to fundamentally transform paradignis of human-computer interaction, especially in situations where conventional input techniques may prove to be laborious or infeasible.

Keywords— Hand Tracking, Gestures, Virtual Mouse Interface, Computer Vision, Open CV, Python.

I. INTRODUCTION

Amidst the dynamic realm of computer technology, there is a persistent a rice in the need for human-computer interaction methods that are both intuitive and efficient. With the increasing prevalence of touch screen interfaces, which provide smooth interaction for specific applications, there continues to be a widespread requirement for alternative input modalities that surpass the drawbacks of expensive implementations and accessibility restrictions. The advent of virtual mouse systems, which utilize hand gestims captured by webcams, presents itself as a potentially effective resolution to this obstacle. The principal aim of this study is to construct a resilient virtual

mouse system that possesses the ability to accurately and fluidly manipulate the computer cursor by interpreting hand gestures in real-time. In contrast to conventional input

devices like physical mice or touchpads, this system provides users with a more flexible and intuitive mode of interaction by removing the need for physical hardware. At the core of the system's operation lies its capacity to precisely detect and convert hand gestures into cursor movements that appear on the screen. This involves implementing a system that not only recognizes the subtleties of hand gestures but also allows users to effortlessly execute routine mouse actions such as scrolling, clicking, and other navigational functions. One of the primary concerns investigated in this study is the assurance of the system's resilience in the face of diverse user demographics and environmental circumstances. The system strives to ensure consistent performance and efficacy in a variety of environments by addressing factors such as lighting variations, background clutter, and differences in hand sizes and shapes. Moreover, this study emphasizes the wider importance of exploring novel approaches to input methods. Although touch screen interfaces undeniably provide numerous benefits, their extensive implementation is frequently impeded by exorbitant expenses and unsuitability for specific use cases. Likewise, physical rodents, despite their widespread use, possess certain drawbacks with regard to their adaptability and availability. Given these factors into account, the creation of a virtual mouse system signifies a critical stride towards democratizing computer interaction; it provides users with an adaptable and easily navigable method of navigating digital environments. By means of careful planning and execution, this study aims to redefine the limits of humancomputer interaction in order to promote a computational environment that is both efficient and inclusive for all participants.

11 METHODOLOGY

In the beginning, hand gesture recognition systems utilize cameras to acquire images. Subsequently, they employ various interfaces, such as position sensors or data gloves, to monitor the movements of the hands. In spite of the fact that

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E-commerce Chatbot For Price Negotiation Using NLP

M.S.S.N. Shankar H.Dr. G.D.K. Kishore F. N.L.N.C. Anudeep D., R. Bhavya H., R. Siva Sankar H. Associate Professor [1], Student [1] 14-[1] SRK Institute of Technology, Department of Information Technology [1221] 199 Vijayawada, India

Mail Id: mandashankar366@gmail.com 11. kishore gallal@gmail.com 13, anudeepnInc2306@gmail.com 14. bhavsaras avarapus il gmail.com/4. sivashankarrumanadham9392@gmail.com N

Abstract: Price Negotiating Chatbot with text and voice functions is available in this article. The setting is an e-commerce platform. The chatbot makes easy and effective negotiations possible for consumers and the platform by understanding voice corimands and providing clear pricing information. Voice or text interactions allow users to participate in conversations, providing flexibility and simplicity. The platform provides a well-organized user experience from product browsing to purchase confirmation, increasing user engagement and delight. Adding order management and sentiment analysis functionality boosts the platform's value. Chattens have greatly improved user experiences and transactional procedures in e-commerce. This is a great innovation and improvement.

Keywords: Price Negotiating Chatbot. Text and Voice Interaction, E-commerce Platform, User Engagement, Negotiation Efficiency

INTRODUCTION

E-commerce is competitive and consumer expectations are rising, thus the ability to negotiate price may be vital to sales and customer satisfaction. E-commerce is grarked by rising customer expectations. Given the conditions, price negotiation may be helpful. Traditional methods are utilised for pricing negotiations. These approaches usually include bayer-seller contact. This contact may take a long time, and the results may not be beneficial to both sides. Chatbots with text and speech interfaces may make negotiations easier and faster. It also solver the issue practically. In recognition of mandatory procedures, this is done.

+ hatbots have transformed customer service is several organisations. This is because chatbots respond instantly and are customised to each user. Natural language processing (NLP) and machine learning techniques allow chatbots to conduct meaningful conversations, understand user preferences, and provide relevant information or support. Tarbots can do all these duties. Charbots are used in e-commerce to provide customer assistance, track orders, and recommend products.

However, chatbots in price negotiating are understudied. The capacity to dynamically negotiate rates based on product demand, inventory levels, and customer preferences might greatly enhance online purchasing. Using text and audio interfaces makes bargaining skills more accessible. This lets users with different communication preferences and accessibility needs be served simultaneously. This article recommends a new online pricing negotiation strategy. Here, a chatbot that can engage with clients via text and voice chatting is being created. The solution simplifies negotiation by letting people connect with the chatbot in a simple and comfortable manner. A dataset of product price and negotiation strategies is utilised by the chatbot to deliver information. Next, complex algorithms are used to generate price suggestions and engage customers in fee negotiations and this is achieved by using the dataset

User feedback and empirical evaluation are utilised to prove the pricing negotiating chatbot is useful and usable. Thus, chatbots may change how clients engage with e-commerce sites. This research developed the field of conversational agents in ecommerce and created new options to improve customer experiences while making electronic transactions.

LITERATURE REVIEW 11.

E-commerce is being transformed by chatbots' improved consumer involvement and business operations. Chatbots may provide new solutions and both advantages helped build chatbots. This part covers chatbot, e-commerce negotiation, and voice/text interface literature to complete the study environment overview. It seeks to identify major scientific gaps immediately.

"Integrating Intellectual Consciousness AI based on Ensemble Machine Learning for Price Negotiation in E-commerce using Test and Voice-Based Chatbot*

Intellectual awareness and ensemble machine learning (EML) work. This department revolutionised online retail price negotiation using text and speech chatbots utilising artificial intelligence. This novel approach to online marketplace negotiation was developed

https://doi.org/10.5072/jagtrbs

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Coimbatore - 641 402, Tamil Nadu, India.



Centificate
of Appreciation

This is to certify that Dr/Mr/Ms. G.D.K.Kishore of SRK Institut Technology has presented a paper entitled A Block Chain-Based Product Identification System in the "IEEE sponsored Internati conference on Science, Technology, Engineering and Managem (ICSTEM'24) held during 26th & 27th April 2024 at KIT-kalaignarkarunar Institute of Technology, Coimbatore, Tamil Nadu, India.

Organizing Chair

Principal

CEO

ÎBen



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Centificate
of Appreciation

This is to certify that Dr/Mr/Ms. G. D. K. Kishore of SRK Institute of Technology has presented a paper entitled Detecting Deepfake Images: International conference on Science, Technology, Engineering and Management" (ICSTEM'24) held during 26th & 27th April 2024 at KIT-kalaignarkarunanidhi Institute of Technology, Coimbatore, Tamil Nadu,India.

Corpnum

Organizing Chair

Principal

CEO

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Performance-Based Appraisal System (PBAS) for Associate Professors

A.Y:2023-24

Name of the Faculty: Dr. J. Ashok

S.No.	Evaluation parameter	Max API Score	Minimum Score required	Self-Score	DFAC Score	IASC Score
1	Service in the College	50		50	50	50
2	Curricular Activities	400		300	360	30
3	Co-Curricular Activities	150		60	60	60
4	Research &Development	250	50	50	SD	- 50
5.	Administrative and Extra-curricular activities	150		130	130	150
Total		1000	550	590	C90	590
Signa	ature of faculty J.	ASho		110-02(1,500)		
	nture(s) DFAC 1 members	E-	2 .6	y	3 0	8
	ture(s) of IASC 1	Mulle	2 -1	Cato	3 3.50	i Gouri

PART - A Service in the College

Maximum API Score:: 50

1 Personal Details:

	reisonar Details.	
1.	Name	Dr. J. Ashole
2.	Present Designation	Associate Professions
3.	Name of the Department\	Science and Humanities (Physics)
4.	College level administrative post (if any)	
5.	Employee Identification Number	
6.	Date of Appointment to the present post	05-04-2020
7.	Date of birth	10-03-1986
8.	Address	D.NO: 3-123/1 vykuntapuram(Past) Arranavathi Mandal/Guntur District Andhra Prodesh /522020
9.	Contact details	E-mail : Jashok 876@gmail-com Telephone : 9440686466 Mobile :



2 Educational qualifications (starting from degree):

Programme	Period of study	University	Marks/CGPA	Class obtained
Ph-D	2014-2019	AND	Awarded	-
M.SC.	2008-2010	AND Phienter Nuzvid	30.05	ist
B-SC	2003 - 2006	ANU	53	370

3 Experience (starting from present position):

Designation	Institution	From	To
lecturer	Siddhartha Degree	2010 - 7 East	2014
	and PG college		
Assitent . Proffessor	SRKIT	1020	:
Associate Professor	SRKIT	01-03-2024	Tilldate
	- usser	LI371 2024	THUGGE
	Assitent - Professor	lecturer Siddhartha Degree and PG college Assitent · Proffessor SRKIT	Lecturer Siddhartha Degree 2010 - 2011 and PG college Assitent - Professor SRKIT 2020

PART-B PART I – Curriculum Activities

Maximum API Score: 400

1.1. Teaching weekly load allotted by the department as per time table

THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	Semester-I		Semester-II		Average
Name of the course	Weekly Load	Name of the course	Weekly Load	Total load	of weekly load
enginening Physics	7	enginerating Physics	4	14	
enginerving Physics	7	enginening Physics	7	14	
enginerring photo le	16 3	engineering Physicslab	3	6	
engineming Physicala	6 3	orginnering Physics bb	3	6	
	20	Total load	2.0	40	20
Score details for	Maximum score	Self-score	DFAC	8	ASC score

Score details for	Maximum score	Self-score DFAC score		IASC score
	50	50	92	50

1.2. Total lecture periods taken in the previous two semesters

Semester-1			Semester-II			
Name of the course	T/P	Score	Name of the course	T/P	Score	
EP and EP lab	20/10	22	EP and EP lab	78/65	24	
EP and EP lab	79/70	Control of the Contro		75/65	23	
Average score of sem	ester-I	22	Average score of semester-II		23.5	

Final score = Average score of two semesters 22.75

Score = T/P * 20

PRINCIPAL

T: Number of lectures taken as per concerned course attendance register

P: Number of lectures proposed in the concerned course lesson plan



Score details for	Maximum score	Self-score	DFAC score	IASC score
1.2	20	20	20	20

1.3. Course files (All the claimed contents should be available in the course file)

	- rassing	Weightage	Maximum	Seme	ster-I	Seme	ster-II
S.No	Contents of course file	points per course per semester	points per semester	Course Name	Course Name	Course Name	Course Name
1	Syllabus page	0.5	1.5	1.5	1.5	1.5	1.5
2	Lesson plan	1	3	2	a	2	2
3	Lecture Notes	3	9	5	5	5	5
4	Question bank (Unit wise)	2	6	4	4	4	4
5	Internal examination question papers with CO mapping	1	3	2	2	a	2
6	Internal examination marks copy	0.5	1.5	1	Ţ	1	1
7	Internal examination CO, PO assessment	2	6	3	3	3	3
8	End Semester results copy with Analysis	1	3	a	2	2	Q
9	End semester examination CO, PO assessment	2	6	5	5	5	5
10	Improvements to be brought in next time course delivery	1	3	Q	2	2	2
11	Assignment questions with CO mapping	1	3	3	3)	3	3
12	Course End Survey evaluation	1	3	3	3	3	3
13	Scheme of evaluation for end semester examination	3	9	8	8	8	8
14	Any other (with approval of IASC)	1	3	3	3	3	3
	mum points	20	60	44.5	44.5		
	of Semester-I &Semest	Annual Control of the			1.5	44	.5
	age of Semester-I &Sen Maxim e details for scor	num Se	elf-score	DFAC		IASC	Score



1.3	60	60	6.0	
		60	00	

1.4. External examination invigilation / evaluation duties

Nature of the Duty Performed	Points per duty			Total number of	Total points	
Activity shows	5,7,0,10,10,10	Semester-I	Semester-II	duties performed		
External examination answer sheets evaluation	5	2_	2_	4	2.0	
External examination invigilation	1	4	4	8	8	
Lab external examination examiner	5	1	1	2_	10	
Seminar- Internal examiner	5		_	_	_	
Mini Project- Internal examiner	5	-		_	_	
Major Project – Internal examiner	5			_	~	
Term Paper – Internal examiner	5		_	_	_	
Any other works*	1	-	-	-	-	
				Total points	38	

^{*}Any other works related to external examination with approval of IASC

Score details for 1.4	Maximum score	Self-score	DFAC score	IASC score
	20	20	20	20

1.5. Internal examination invigilation / evaluation duties

Nature of the Dut Performed		Points Number of per duty perform		Control of the second	Total number of	Total points
			Semester-I	Semester-II	duties performed	
Internal descriptiv answer sheets eval	e exam luation	1	4	4	8	8
Internal objective answer sheets eval		1	4	4	8	8
assignment books evaluation		1	5	5	10	10
Internal exam invi	gilation	1	4	4	9	0
Lab internal exami	iner	1	2	2	4	4
	Maxir	num	0.10	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	93000	

Score details for 1.5

Maximum score Self-score DFAC score IASC score PRINC



1.6. Use of innovative teaching methodologies

Teaching methodology	Number of points per course per semester	Max. points per semester	Semester- I points	Semester- II points	Average points of two semesters
Power point presentations with own annotations and minimum 10 slides per course per semester	5	10	5	5	10
Visuals (Topic Related own video/simulation created)	5	10	5	5	10
Entire course content uploaded in MOODLE server	10	20			
				Total points	20

Note: All teaching methodology works should be recorded in the teaching diary of concerned course attendance register and proofs should be authorized by HoD.

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.0	20	20	20	20

1.7. Remedial classes / Bridge Courses / Content beyond syllabus / Etc.

Details of item	Semester -	State of the state		nester - II		Semester - II			Average
	Name of the course	No. of classes taken	Semester - I points	Name of the course	No. of classes taken	Semester - II points	of semester- I and semester- II points		
Remedial classes	E.P	12 (6+6)	12	EP	12 (6+6)	12	12_		
Bridge courses	EP	8	8				8		
Career oriented course	-	-	-	-		-	mat d		
Content Beyond	EP	4	4	EP	4	4 p	RINCIPAL		



Syllabus							1975
Additional experiments designed and conducted beyond curriculum	EP	1	1	EP	,	1	1
Job oriented Certificate Courses			-	-	-		_
						Total points	25

Minimum classes required	Points per class	Maximum points
5	2	10
5	2	10
5	2	10
5 concepts	2	10
2 experiments	5	10
10	1	10
	5 5 5 5 concepts 2 experiments	required class 5 2 5 2 5 2 5 concepts 2 2 experiments 5

Score details for	Maximum score	Self-score	DFAC score	IASC score
	10	10	(0	10

1.8. Mentoring with proper records

Item	Semester I	Semester II	Total No. of sessions taken	Points per session	Total score
No. of counseling sessions done	5	5	10	5	50

Note: Mentoring record should be in faculty hand writing only. Otherwise GRK INSTITUTE OF TECHNOLOGY

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Score details for	Maximum score	Self-score	DFAC score	IASC score
1.8	20	20	20	20

1.9 Percentage of passes

Semester – I			Semester - II		
Name of the course	Percentage of pass	Points per course	Name of the course	Percentage of pass	Points per course
E P/EPlab	65	20	EPIEPlab	84-38	25
EPIEPLAL	GI	15	EPIEPlab	88.33	30
Average points of semester-I		17-5	Average points of semester-II		27.5

Note: Don't include laboratory courses here.

Percentage of pass	<55%	55-64.99%	65-74.99%	75-85%	>85%
points	10	15	20	25	30

Score details for	Maximum score	Self-score	DFAC score	IASC score
13	30	30	30	30

1.10. Student feedback on teaching

Semester – I				Semester - II	
Name of the course	Feedback obtained	Points per course	Name of the course	Feedback obtained	Points per course
EPIEPlab	94.38/1694	30	EPIEPlab	96.13/9.23	30
EPIEPlab	90.57/18.11		EPI EPlab	93.49/18-70	30
Average points	of semester-I		Average point	s of semester-II	rel

Total points = Average of semester I & II points =

Note: Feedback for laboratory courses also can be included here



Feedback	<3	3 to 3.49	3.5 to 3.99	4 to 4.49	4.5 to 5
points	10	15	20	25	30

Score details for 1.10	Maximum score	Self-score	DFAC score	IASC score
	30	30	30	70

1.11 Project Guidance (Mini project/major project/seminar/term paper)

	Semester – I			Semester - II		
	Batch - 1		Batch - 1			
Title of Project:			Title of Project	t:	-797	
Register no's of students	Grade	Score	Register no's of students	Grade	Score	
- 10	-	-		_		
-	-	-	-	-	-	
-	-	-		_	_	
-	-	-	-	_	_	
_	-	-	-	_	-	
Average score of Batch-1 in semester-I (B1)		-	Average score of Batch-1 in semester-II (B2)			
Average score	of batch-1 in two	semesters (S): (B1+B2)/2 =	-		
	Batch - 2		Batch - 2			
Title of Project	:		Title of Project			
Register no's of students	Grade	Score (S1)	Register no's of students	Grade	Score (S2)	
-	- S		12	_	2010	
105	B TH. 1		_			
To-	-	5			5	
-	-		-	-	1	
-	State of the state		-			

P = 20 points if SCI/Scopus paper (journal / conference) published from the work of the project (This publication should not be shown under Part - 3)



Project Grade	A+	A	В	C
Points	30	25	20	15
Score details for	Maximum score	Self-score	DFAC score	IASC score
1.11	50			

1.12. NPTEL/MIT/COURSERA/edx/UDACITY courses completed Title of the course Offered Duration Percentage Points Average Average by of course of marks obtained points of points of with dates obtained one two semester semesters Semester = I Semester = II

Note: Full course of at least 6 weeks duration only to considered. Points for a course with exam: 20*Percentage of marks obtained Points for a course without exam: 10

Score details for 1.12	Maximum score	Self-score	DFAC score	IASC score
1.12	20	-		

1.13. Involvement of Faculty in syllabus framing (BOS) For BOS members: Date(s) of BOS meeting attended: Points:20 For non-BOS members: Title of course(s) for which syllabus prepared: Points: 10 for each course

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.13	20	20	20	20 PRING



1.14 MOU's / Student Internships

Name & Regd, no. of student received internship through your guidance		Duration of internship	Amount received by student for internship	Points
~	-	_	-	
	~	-	-	

Online Internship (including internshala): 5 points per student (Max.: 20 points) Industry internship (offline): 15 points per student (Max.: 30 points)

Details of MOU	Validity of MOU (Mention date(s))	Internships received through MOU	Amount received by student (paid internship) for internship through MOU	Points
-	-	-	-	_
-		-		_

Each functional MOU: 10 points

Total score of part-1

400

Internship received through MOU: 10 points/student (paid internship only) Internship received through MOU: 5 points/student (non-paid inter

Score details for	Maximum score	Self-score	DFAC score	IASC score
1.14	30			

Total score of part-I Item no. Maximum score Self-score DFAC score IASC score 1.1 50 50 50 50 1.2 20 20 20 20 1.3 60 GD 60 60 1.4 20 20 20 20 1.5 20 20 20 20 1.6 20 20 20 20 1.7 10 10 10 10 1.8 20 20 30 as 1.9 30 30 20 30 1.10 30 30 30 30 1.11 50 1.12 20 1.13 20 20 20 1.14 30 SHK INSTITUTE OF TECHNOLI

300

300

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Part - II Co-Curricular Activities

Max. Score: 150

2.1 Membership of professional societies

Membership offered professional society	Membership number	National / International	Points
-	-	-	_
-		-	-
		Total points	-

Note: International membership=10; National membership=5 points, Don't include online free memberships.

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.1	10	_		_

2.2 Departmental development of facilities

Development of facilities	Details of development undertaken	Semester-	Semester - II	Total score
a) Laboratory infrastructure up gradation/New Experiment Setup Including MODROB (Utilization of budget)	-	-	2	
 b) Common student facilities Class Room Services, Basic Amenities, Seminar/Common Halls etc. 	-		-	-
 c) Addition & use of new software 	-	-	-	-
 d) Any Other - authorized by IASC with the approval of Principal 		-	-	-
			Total score	

Principal participant = 5 points per semester; others = 2.5 points per semester

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.2	10	_	_	_

2.3 Attending or organizing various activities:

Conferences / Seminars / workshops/ FDPs / skill development course / certificate courses /

industry training and other similar items

Attended	Dates		No of	Title, Place, Month & year details	Points	
/ Organized	From	То	Days	A THE COLLEGE TATE OF THE STATE	N 1100	
Altended	2 tymay	1010 127	0.3	FR SCOOTAFING Solingraf A. H. S. Glence, Maria	02/0/	
Attended	Marchana	2024	02	Physics , chemistry and material science-emerging Trends	03/ ///	
				4	PRINCIPAL	
Total point	s				TITUTE OF TECHN	
Tom point				ENIKEPA	DIT. VIJAYATIADA-	



Maximum points for attending various events: 30 Maximum points for organizing various events: 30

Score details for 2.3	Maximum score	Self-score	DFAC score	IASC score
2.0	60	30	30	30

2.4 Guest Lectures/webinar attended, organized or delivered Attended Dates Title, Place, Month & year details Points From To Organized Delivered Tiny wonders Big furbine: Making and Understanding Attended 03-09-009 Maromaterialis D.s Gout Degres college Ongo ken 120 00 Allended atheribes. Atvanced Took for Research Methodology Govl. Degree college Amoigadda 29-04-2024 0 Total points

Score details for 2.4	Maximum score	Self-score	DFAC score	IASC score
	20	20	20	20

2.5 Accompanied students on industrial tours

Date(s)	Places visited	No. of days	Points
23,24-10-202	AP-Pracon Sumit at Amaravathi	2	10
Total points			
One double 5			10

One day trip: 5 points; More than one day trip: 10 points

Score details for 2.5	Maximum score	Self-score	DFAC score	IASC score
	10	1D	10	10

2.6 Student technical events organized

Name of the event	Date(s)	Role	Points
	-	-	- 1
-		-	- 100 11
		- SR	KINSTITUTE OF TECH



Role(s): Department coordinator: 10 points, Event coordinator: 5 points, Others: 2.5 points

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.6	10	y-y	_	_

2.7 Student innovations: Guidance

Details of student innovation			Place of Date(s) of participation			Points
	4		_			_
	_		_			-
	_		-		- 16	-
Score details for	Maximum score	Sel	f-score	DI	FAC score	IASC score
2.7	10	1-1-5				

2.8 Consultancy

Name of the company to which consultancy provided	Amount earned	Total amount	Points	
	_		The second	
	-	~	-	
LEGISTON CONTRACTOR	_			

< Rs. 25000/- 2.5 points; 25000 to 50000 - 5 points; 50000 to 100000 - 7.5 points; 100001 1000000 - 10 points; more than 1000000 - 20 points

Score details for	Maximum score	Self-score	DFAC score	IASC score
2.8	20	_	-	

Total score of part- II

Item no.	Maximum score	Self-score	DFAC score	IASC score
2.1	10			
2.2	10			
2.3	60	30	30	30
2.4	20	20	20	20
2.5	10	10	10	10
2.6	10			
2.7	10			
2.8	20			
Total score of part-II	150	CO	60	60 /

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Part - III R &D Related Contributions

Max. Score: 250 (Min. score required: 50)

3.1 Research Publications

Book / Book chapter (Indexed by SCIE / Scopus / UGC only will be considered)

S.No.	Details of Paper		by SCIE / Scopus / UGC	Points
	Author(s) names	-		
	Name of the book / book chapter	=		
1	Publisher details	-		
	ISBN no.	-	-	-
	Page no(s), Month & Year of publication	-		

Points: Book: SCIE - 50, Scopus - 40, UGC - 30

Points: Book chapter: SCIE - 40, Scopus - 30, UGC - 20

Paper publication(s) in journals (Indexed by SCIE / Scopus / UGC only will be considered)

S.No.	Details of Paper		Indexed by SCIE / Scopus / UGC	Points
	Author(s) names	T-Kalpana, J. Altok, Cr. Ravi, N. ch. Ranchebbe P-Gertha, V. Rabhakar, G. Nagangu, A. chilli Babu	sci€	-0
	Name of the paper	observation on the structural piecetelectric and impedance properties of outsin (12 lands no rated lead zicronium titrate (12212) (cramics)	72-11	50
1	Publisher details	springer Science / J. Mater Sci Mater Impartfactor 1 3-8 / clectron, Volume 35, 454		
	ISSN no.			
	Page no(s), Month & Year of publication	article number 454 28-02-2024		

Score details for 3.1	Maximum score	Self-score	DFAC score	IASC score
	80	50	50	SRK INSTITUTE OF TECHNOLO ENIKEPADU, VIJAYAWADA-521



3.2 Sponsored Research projects

Details of investigators	Name of the project	Sanctioning agency	Amount sanctioned / applied	Date of application	Project sanctioned / result awaited	Points
-	-	-		-		-
-	-	-	-	-	-	_
					Total points	-

Project amount	Sanctioned (points)	Result awaiting (points)	No.of investigators allowed
More than Rs.20 Lakhs	40	12	5
Rs.10 Lakhs - 20 Lakhs	30	09	4
Rs.5 Lakhs -10 Lakhs	20	06	2
< Rs.5.0 Lakhs	10	03	2
SAGTE projects	10	-	2

Score details for 3.2	Maximum score	Self-score	DFAC score	IASC score
3.2	70	-	_	-

3.3 Conferences / symposia papers presented

Conference proceedings (Indexed by SCIE / Scopus, UGC only will be considered)

S.No.	Details of Paper	Indexed Point by SCIE / Scopus / UGC
	Author(s) names	
	Name of the paper	
1	Conference details	
	Month & Year of conference	PM. 0000
	Comerciae	PAINCIPAL

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Score details for 3.3	Maximum score	Self-score	DFAC score	IASC score
	30			

3.4 Patents

Details of inventors	Title of the patent	Patent registering agency	Month and year of patent	Published / Granted	Points
		14	-	-	-
-		-	-	-	1/2
				Total points	

Score details for 3.4	Maximum score	Self-score	DFAC score	IASC score
	20	-	_	-

3.5 Incubation center established

Details of incubation center	Month & Year establishment	of Points
	-	-

Max points: 10; Principal coordinator: 100%; others (with active participation)=80% Active Participation as certified by Coordinator and HOD

Score details for 3.5	Maximum score	Self-score	DFAC score	IASC score
0.0	20	0.	-	

3.6 Centre of Excellence established

Details excellence	of	centre	of	Month establish	& ment	Year	of	Points	
	1			_				-	M. (

Max points: 10; Principal coordinator: 100%; others (with active participation)=80% PRINCIPAL Active Participation as certified by Coordinator and HOD SRK INSTITUTE OF TEC

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Score details for 3.6	Maximum score	Self-score	DFAC score	IASC score
3.0	20		-	_

3.7 Ph.D related activities

Ph.D awarded und	ler your guidance	10 points
Details of scholar Awarding university		Date & month of Ph.D award
	-	~

Score details for 3.7	Maximum score	Self-score	DFAC score	IASC score
3.7	10	-	-	-

Total score of part- III

Maximum score	Self-score	DFAC score	IASC score
80	50	CO	50
70			
30	-		
20	-		
20	-		
20	-		
10			-1:2
250	50	92	500
	Maximum score 80 70 30 20 20 20	80 5D 70 - 30 - 20 - 20 - 10 -	Maximum score Self-score DFAC score 80 50 50 70

PART-IV Administrative and Extra-curricular activities

Max. Score: 150

4.1 Departmental Administration

S.No.	Activity	SEM-I	SEM-II	Total points
1.	In-charge of time tables (10 /sem)		-	-
2.	Attendance in-charge(10/sem)		-	-
3.	Internal marks in-charge(10/sem)	-		
4.	Mini / Major Project Coordinator/Review Members	-		-
5.	Exams In-charge (10)	-	120	-
6.	Library in-charge		-	-
7.	Lab In-charge	5	5	10
8.	Discipline(class teacher)	5	5	ID and
9.	Professional Society Related Coordinators (Based on the events conducted)/Department Association	5	5	SRK INSTITUTE OF TE



10.	Module / Course Coordinator	5	5	10
11.	Departmental R&D Coordinator	2.5	2.5	5
12.	Media Coordinator		900	-0
13.	Departmental News Letter Editor/Members	-	-	-
14.	ISO (Coordinator)	2.5	2.5	-
15.	TEQIP Coordinator	6.3	4.0	5 '
16.	Alumni Coordinator	-	-	_
17.	NBA/NAAC Participation(10 /sem)	10		0.0
18.	Grievance cell	10	ID.	20
19.	Anti-ragging Committee	2.5	0	-
20.	Vigilance	4.5	2.5	5
21	Programme Coordinator(15 /sem)*			-
22	Answer script in-charge			-
23	Induction day			-
24	Farewell day	2.5	2.5	5
25	Any Other - authorized by chairman CAS standing committee with the approval of Principal		2.5	2.5
	ivity = 5 points per year: 2.5 points per ser		Total points	82.5

Each activity = 5 points per year; 2.5 points per sem; Coordinator = 100%; others = 50%

Score details for 4.1	Maximum score Self-score		DFAC score	IASC score	
	40	40	40	uo	

4.2 Institutional level administration

S.No.		SEM-I	SEM-II	Total maint
1.	NBA Participation(NBA Common Criteria Preparation Coordinators)	5	5	Total points
2.	NAAC			10
3.	Autonomous/Examination Section	-5	5	10
4.	TEQIP Nodal Officers	5	5	10
5.	R&D Committee Member/Paper Incentive Member	2.5	2.5	5
6.	Maintenance of Central facilities (telephone, internet, electrical, water works, hostel, Sports etc.)	2.5	2.5	5
7.	Career Guidance Cell			
8.	Grievance cell anti ragging	3.5	0.5	-
9.	ISO Co-ordinator	2.5	2.5	_ 5
10,	Any other such as Hostel Warden etc.,	2.5	2.5	-
		7	otal points	50

Each activity/sem = 5 points; Coordinator=100%; others=50%

Score details for	Maximum	Self-score	DFAC score SRK INSTITUTE OF TECHNOLOGY
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4.2	score			
	50	100	50	m

4.3 Institutional Events Organization members, Sports Participants

S.No.	Activity	SEM-I	SEM-II	Total points
1.	Annual day		5	5
2.	Cultural activities	5	5	10
3.	Sports participation	2.5	2.5	5
4.	Any Other as approved by IASC and by Principal approved	2.5	2.5	5
		CO.	Total points	25

Each activity = 5 Points/sem;

Score details for 4.3	Maximum score	Self-score		IASC score	
	30	30	30	30	

4.4 NSS / NCC / Other Service activities

S.No.	Activity	SEM-I	SEM-II	Total points
1.	NCC / NSS activities	2.5	2.5	5
2.	NSS/NCC Coordinator(10)	-	-	(e)
3.	Women grievance cell activities			
4.	Health camps	2.5	2.5	5
5.	Blood camps	-		-
6.	Service to poor	_		
7.	Service to Disabled	_	-	2
8.	Charity camps etc.	-	2 2	-
9.	Any Other as approved by IASC and by Principal approved	-		_
			Total points	10

Each activity = 5 points/sem

Score details for 4.4	Maximum score Self-score		DFAC score	IASC score	
	10	10	10	10	

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4.5 Training & other Misc. activities

S.No.	Activity	SEM-I	SEM-II	Points
1.	Training and placements- Departmental T&P Coordinator=20 points; others = 10 points	4		_
2.	Institute News letter Editorial board: 10 points; ArticleContributors:5 points(From Dept);	-	-	-
3.	Material contribution to news letter/Annual Day Report/House Journal from Department ArticleContributors:5 points(From Dept)	-	-	-
4.	Any Other as approved by IASC and by Principal approved	-		
			Total points	-

Score details for 4.5	Maximum score	M Self-score DFAC score		IASC score	
	20	-	_	-	

Total score of part- IV

Item no.	Maximum score	Self-score	DFAC score	IASC score	
4.1	40	40	uo		
4.2	50	5D	OZ2		
4.3	30 30		30	30	
4.4	10	10	10	10	
4.5	20				
Total score of part- IV	150	130	130	120	

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Department of Science and Humanities FACULTY INDIVIDUAL TIME TABLE SRKIT / 5&H / 10.2

Academic Year;2023-24

Semester: II

w.c.f: 19-02-2024

Name of the Faculty: Dr. J. Ashok						Subject : Engineering Physics				
Time	9:00- 9:50	9:50- 10:40	10:40- 11:30	10Min	11:40- 12:25	12:25- 01:15	01:15- 02:00	02:00- 02:45	02:45 -03:30	03:30- 04:15
Period	1	2	3		4	5		6	7	8
MON		CSM-B			CS	Е-В			CSE-A	-
TUE	8.3		CSM-B		CSM-B			CSE-A		
WED	CSE-B			EAK		- 67	LUNCII		-CSE-B	
THU	- 103			BRE	CS	E-A	3	- 24	CSE-B	
FRI	CSE-A		CSM-B			CSE-B	8			
SAT		CSE-A				CSM-B				

Faculty Sign 11204

Holy Date 1912/24



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Department of Science and Humanities FACULTY INDIVIDUAL TIME TABLE SRKIT / S&H / 10.2

Academic Year:2023-24

Semester:II

w.e.f: 19-02-2024

Name of	the Facu	lty:Ms.B.	Naga Mar	i		S	ubject : E	ngineering	Physics	71.17	
Time	9:00- 9:50	9:50- 10:40	10:40- 11:30	10Min	11:40- 12:25	12:25- 01:15	01:15- 02:00	02:00- 02:45	02:45 -03:30	03:30- 04:15	
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Department of Science and Humanities FACULTY INDIVIDUAL TIME TABLE SRKIT / S&H / 10.2

Academic Year:2022-23

Semester:1

w.e.f: 19-09-2023

	Name of	the Faculty	y: Mr.K.B	asava Raj	u			Subject : M	athematic	s- I
Time	9:00- 9:50	9:50- 10:40	10:40- 11:30	10Min	11:40- 12:25	12:25- 01:15	01:15- 02:00	02:00- 02:45	02:45 -03:30	03:30- 04:15
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Academic Year:2023-24

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w.e.f: 19-09-2023

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Time	9:00-9:50	9:50- 10:40	10:40- 11:30	10Mi n	11:40- 12:25	12:25- 01:15	01:15- 02:00	02:00- 02:45	02:45 -03:30	03:30- 04:15		
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Department of Science and Humanities

Academic year: 2023-24

Year / Semester: 1/1

Section: ECE -A

S No	SUBJECT	FACULTY NAME	FEED BACK (%)	FEED BACK MARKS(20)
1.	Communicative English	Mr.Yellamanda Vusa	89.45	17.89
2.	Engineering Physics	Dr.J.Ashok	94.38	18.87
3.	Linear Algebra And Calculus	Mr.B.V.Rama Krishna Rao	92.62	18.52
4.	Basic Electrical And Electronics Engineering	Ms.K.Noha	96.38	19.27
5.	Engineering Graphics	Mr,M.Hari Krishna/D.Rognath	95.31	19.06
6.	Health And Wellness, Yoga And Sports	Mr. CH.Sarath / Mr. Yellamanda Vusa	80.24	16.04

Academic year: 2023-24

Year / Semester: I/I

Section: ECE -3

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1.	Communicative English	Ms.B.Ranga naga valli	90.48	18.09
2.	Engineering Physics	Dr.J.Ashok	90.57	18.11
3.	Linear Algebra And Calculus	Mr.B.V.Rama Krishna Rao	90.58	18.11
4.	Basic Electrical And Electronics Engineering	Ms.K.Noha	93.12	18.62
5.	Engineering Graphics	R.Kiran Kumar/M.Hari Krishna	92.48	18.49
6.	Health And Wellness, Yoga And Sports	Mr. CH.Sarath / Mr. Yellamanda Vusa	91.12	18.22

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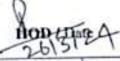
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Differential Equations and Vector Calculus	Ms.S.Suman	97.61	19.52	8
Engineering Physics	Ms. B. Nagamani	95.37	19.07	0
Basic Electrical and Electronics Engineering	Ms.S.Sandhya	80.29	16.06	A.
Engineering Graphics	Mr.M.Hari Krishna/ Mr.P.N. Tarun Venkatesh	93.07	18.61	Kichel
Data Structures	Mr.R.P.Jyoth Singh	94.17	18.83	4-12/
Soft Skills	Ms.B.Ranga Nagavalli	86.10	17.22	pre
	Differential Equations and Vector Calculus Engineering Physics Basic Electrical and Electronics Engineering Engineering Graphics Data Structures	Differential Equations and Vector Calculus Engineering Physics Basic Electrical and Electronics Engineering Engineering Graphics Ms. S. Suman Ms. B. Nagamani Ms. S. Sandhya Engineering Graphics Mr.M.Hari Krishna/ Mr.P.N. Tarun Venkatesh Data Structures Mr.R.P.Jyoth Singh	Differential Equations and Vector Calculus Engineering Physics Basic Electrical and Electronics Engineering Engineering Graphics Mr.M.Hari Krishna/Mr.P.N. Tarun Venkatesh Data Structures FACULTY NAME BACK (%) 97.61 Ms.S.Suman 95.37 Ms.S.Sandhya 80.29 Mr.M.Hari Krishna/Mr.P.N. Tarun Venkatesh 93.07	Differential Equations and Vector Calculus Engineering Physics Basic Electrical and Electronics Engineering Ms.S.Sandhya Engineering Graphics Mr.M.Hari Krishna/ Mr.P.N. Tarun Venkatesh Data Structures FEED BACK (%) MARKS(20) 19.52 19.07 19.07 19.07 18.61 19.32



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Academic year: 2023-24

Year / Semester: 1/II

Section: CSE-AI&ML(B)

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1.	Differential Equations and Vector Calculus	Ms.S.Suman	98.75	19.75	8/
2.	Engineering Physics	Dr. J. Ashok	89.8	17.96	0
3.	Basic Electrical and Electronics Engineering	Ms.S.Sandhya	81.8	16.36	8
4.	Engineering Graphics	Mr.M.Hari Krishna/ Ms.Y.Durga Bhavani	95.4	19.08	Kliny
5.	Data Structures	Mr.R.P.Jyoth Singh	94.2	18.84	fresh
6.	Soft Skills	Ms.V. Navatha	97.45	19.49	Ole

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Department of Science and Humanities STUDENT FEEDBACK ANALYSIS

SRKIT/ S&H/ 22.1

Academic year: 2023:24

Year / Semester: I/II

Section: CSE -A

S No	SUBJECT	FACULTY NAME	FEED BACK (%)	FEED BACK MARKS(20)	OF THE FACULTY
1.	Differential Equations and Vector Calculus	Dr.K.Krishna Rao	97.48	19.50	4
2.	Engineering Physics	Dr.J.Ashok	96.13	19.23	4
3.	Basic Electrical and Electronics Engineering	Dr.D.S.P.Kishore	82.74	16.55	Ø
4.	Engineering Graphics	Mr.R.Kiran Kumar/ Ms. P.Bhagya lakshmi	95.74	19.15	A
5.	Data Structures	Ms.G.M.Padmaja	94.83	18.97	Swe
6.	Soft Skills	Ms. V. Navatha	85.88	17.18	Why





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2.	Engineering Physics	Dr.J.Ashok	93.49	18.70	4
3.	Basic Electrical and Electronics Engineering	Dr.D.S.P.Kishore	78.51	15.70	0
4.	Engineering Graphics	Mr.R.Kiran Kumar / Mr.U.Tanoj	97.32	19.46	0
5.	Data Structures	Ms.G.M.Padmaja	96.89	19.38	emp
6.	Soft Skills	Ms. B.Pavani	99.49	19.90	8. port

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Certificate

This is to certify that Dr.J.Ashok, Associate professor, SRK Institute of Technology, Enikepadu, Vijayawada has participated in **One Day National Webinar on "Advanced Tools For Research Methodology"** organized by the Department of Chemistry, Govt. Degree College, Avanigadda held on 29th April 2024.

Convenor

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CERTIFICATE of Participation

This certificate is proudly presented to:

Ms./Mr/Dr. J. Ashok

Of SRK Institute of Technology for actively participating in a Three-Day Faculty Development Program on "Essentials for the Patent Drafting" organized by the Department of Mechanical Engineering, SRK Institute of Technology, Enikepadu, Vijayawada from 8th to 10th May 2024.

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Observations on the structural, piezoelectric, and impedance properties of cation-(La and Sn) modified lead zirconium titanate (PLZST) ceramics

Kalpana Tirumalasetti¹, J. Ashok², Ravi Gudiguntla³, N. Ch. Ramesh Babu⁴, P. Geetha⁵, Virupakshi Prabhakar^{6, *}©, G. Nagaraju⁷, A. Chitti Babu⁸, and Pandiri Sreedhar^{8, *}

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ABSTRACT

The structural ambiguity was resolved quantitatively with dual-phase models of Cc+P4mm. Multiple-phase transition behaviors including Antiferroelectric (AFE) to Ferroelectric transition, transition at depolarization temperature, and AFE to paraelectric state transition were observed among PLZST samples and investigated in detail. The piezoelectric and impedance features of a modified PZT ceramic that has different mole ratios of La and Sn co-substitution are shown here. The principle of Archimedes shows that the synthesized specimens have sufficient density for withstanding high temperatures and higher fields while explaining them. We concentrated on the impedance and piezoelectric coefficients d₃₃, g₃₃, and figure of merit (FOM) of the ideal PbLaZrSnTiO₃ (PLZST) composition (50/30/20) in this study. The PLZSTs consist of two phases (Cc+P4mm), which combine to generate a single phase with a high Sn content and a low La content. These structural correlations coexist with the dual evaluation of impedance and piezoelectric characteristics in order to produce optimum composition. In order to evaluate the impedance features, the property of activation energy for the grains also supports the PLZST (50/30/20) having superior properties among PLZSTs. The optimum composition will meet the current business's commercial needs through multiple windows.

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1 Introduction

Multifunctional materials or ceramics have attracted a lot attention in the modern era due to their numerous window operations [1-3]. PZT and its analogs are widely used in the communication, medical, and electrical industries due to their low cost and outstanding accuracy. PZT's outstanding characteristics have applications in energy storage devices as well as positive and negative electro-caloric properties [4, 5]. Because of their remarkable properties, multiple organizations [6-9] have looked into the PZT and PLZT systems simultaneously; as a consequence, these materials are opening new avenues to address current generation concerns [10-12]. They showed, for instance that these materials are outstanding for electro-caloric effect cooling because of their significant dipolar entropy shift during the transition from the antiferroelectric to the ferroelectric phase. These ceramic specimens involve crystallite grains of different sizes that are linked together in a variety of arbitrarily ways [9, 13]. These zones of grain amalgamation are referred to as boundaries of grain, and they are greatly impacted by external factors such as heating and cooling, an external electric field, and so on. The interfacial behavior of grain boundaries enables electroceramics [8, 14]. In device application, all ceramic specimens are connected to the system through electrodes. These electrodes can function as a grain-to-grain barrier system with programmable effect settings [15]. Impedance spectroscopy is an invaluable tool to determine the entire profile picture of the grain and grain boundary profile. The results of impedance spectroscopy not only provide values for grain contribution and grain boundary, but also provide a comparable circuit model for modeling [16, 17]. Even if the model has been taken into account, choosing one that works might be hard. A particular model was developed for these PLZST specimens to draw the proper predicted outcomes and provide information for the design of advanced devices. The fault makeup of solid-state specimens plays an important role in these new potential applications. Understanding how desired characteristics interact with imperfections and vacancies on the site was important [18, 19]. The co-substitution of La and Sn in varying ratios affects interior imperfections such as voids at A- and B-sites. Site vacancies and electrons at space charges affect the ferroelectric fatigue or impedance/conductive properties of materials [20-23]. The use of AC impedance analysis for

identifying the cause of failure at grain-grain boundaries is an adaptable technique. It must also build its relaxation method by providing distinctive resistance and capacitance values to the grain and grain border effects.

The excellent properties of PZT have drawn a lot of attention in the area of polar-based materials devices. The pure form of PZT has a higher d₃₃ value when compared to all polar materials [24]. The increased value of d₃₃ in PZT produced by altering the phase boundary additionally indicates an important increase in device effectiveness. Piezo-coefficients have been produced in this instance by averaging many internal ionic crystal polarizations. These piezo-coefficient values are a consequence of stationary charges building up at both ends caused by crystal structural deformation. This domain mobility has discovered applications in power-controlling electric devices [25]. These devices have controls, and their efficiency/performance is evaluated using a figure of merit (FOM).

2 Experimental details

The PZT-based polycrystalline ceramics (Pb234Laa66) (Zr, Sn_{0.30}Ti_{0.70-1})O₃(x = 0.54, 0.52, 0.50, and 0.48) have been synthesized using a conventional solid-state reaction. The high-grade raw metal oxide chemical powders of PbO, La2O3, TiO2, ZrO3, and SnO2 (99% AR Grade, Chemicals) were used as initial precursors for synthesis. These raw materials were weighed according to their mole ratio and mixed properly. The mixed powders were further mixed properly using ball milling over the time 10 h with 300 rpm for all specimens and then calcined at 840 °C for 3 h. After mixing uniformly, these powders were pressed into circular disks with a uniform thickness of 10 mm diameters by adding 8 wt% of PVA (Poly viryl Alcohol) as binder solution prepared in IPA solution. These circular disks were sintered in alumina crucibles in the presence of PZT powder to play down the lead volatilization and then placed in a box furnace. These circular disks were sintered at 1250 °C for 3 h with a uniaxial rate of heating of 5 °C/min. These ceramics were polished on different emery sheets for a fine thickness of 0.2 mm with a uniform surface. The structural phase purity of polycrystalline ceramics was confirmed by using X-ray diffractometer (XRD, 7000S/L, Shimadzu Corp, Japan) using Cu Ka radiation. The temperaturedependent dielectric and impedance measurements on

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SRK INSTITUTE OF TECHNOLOGY ENIKEPADU VIJAYAWADA-521 100. the disk with electrodes were performed by using a computer-controlled LCR meter (Tonghui TH2828S, China) within the temperature range from – 5 to 600 °C with a uniform heating rate of 2 °C/min. The specimens were poled electrically at room temperature in a silicon oil bath (DOW CORNING 704) by applying DC electric fields of 0–60 kV/cm for constant time for each equal interval of time. These piezocoefficients were estimated with the help of Piezometer System PM300 (Piezotest Ltd.) operated at a frequency of 100 Hz.

3 Results and discussion

An efficient method for determining the structural distortion of polycrystalline materials is the X-ray diffraction (XRD) technique. Figure 1 shows the XRD patterns of Zr- and Ti-substituted PZT (PLZST) ceramics. Every ceramic was stabilized in a pure perovskite structure, devoid of any secondary phases coexisting with it. Super lattice reflections of monoclinic Cc have been described in literature paired with the room-temperature structure, specifically for PZT [26]. As Zr content increases at the Ti site, the peak combines and appears as a single peak. The existence of dual phase over the substitution of Zr- and Ti-substituted PZT, analyzed phase contribution quantitatively employing a methodical structural refinement procedure. Throughout the series, Rietveld refinement was

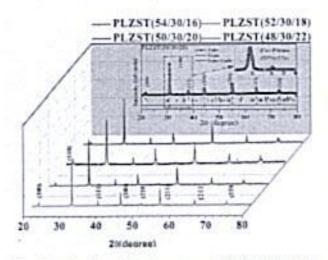


Fig. 1 Powder X-ray diffraction patterns of PLZST (54/30/16). PLZST (52/30/18), and PLZST (50/30/20) and PLZST (48/30/22). Inset shows the Rietveld refined pattern of PLZST(50/30/20), which existing in the Cc+P4mm duel phase model with reducing tetragonal reflections

performed using full proof software [27]. We choose various dual structural phase models to erform refinement by validating the structural coexistence. In order to determine the coexistence of the structural phase model for PLZST (50/30/20), the clear indication is yielded that fit was extremely good fit with Cc + P4mm. The quality and goodness of fit for PLZST (50/30/20) are shown in the inset of Fig. 1. The inset shows the evidence of the significant intense Brag reflection of the (110)_{pe} peak's best fit. The refine parameters, atomic positions, and lattice constants are provided in Table 1.

The temperature-dependent dielectric permittivity (a) and tangent loss (tan b) of the unpoled samples under a selected frequency of 100 kHz are presented in Fig. 2.The dielectric anomaly indicated by Tm, which is the most significant dielectric constant value and is related to the phase transition from the antiferroelectric to the paraelectric region, was seen in each specimen. For each specimen, the phase transition sequence exhibits a comparable pattern. At the lower temperature side (before depolarization T_d), the permittivity decreases with compositional variation and all exhibit broad peaks, suggesting the features of a diffuse phase transition [28, 29]. The dielectric permittivity value is very high for PLZST (50/30/20) compared to other ceramics PLZST (54/30/16), PLZST (52/30/18), and PLZST (48/30/22). A significant improvement in dielectric permittivity indicates that as the Ti4+ concentration increases and the Zr4" content decreases simultaneously, the antiferroelectricity gets lower and the ferroelectricity gets higher. At the same time, the temperature corresponding to maximum ϵ (named as T_) shifts slightly towards a lower temperature region upon decreasing the ratio of Zr/Ti. All these samples have shown the typical ferroelectric relaxor ferroelectric behavior due to the diffuse phase transition [30].

Figure 3 shows a schematic representation of domains and straightforward distinguished status of grain boundaries, as well as unpoled and poling situations. In terms of quantities, the orientation of domains across a particular axis represents the d₃₃ and g₃₃ values. Because of the orientation of the [001] plane [31], the maximum values of d₃₃ and g₃₃ were achieved. These PLZST polycrystalline ceramics' structural phase purity and multi-phase coexistence could have been seen elsewhere [32]. The presence of a dual structural phase [9] within the PLZST (50/30/20) with the co-substitution of La and Sn leads to the superior desirable features of these specimens. After poling the samples at high fields

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Table 1 Structural refined parameters of monoclinic Ce and tetragonal P4mm space

Cc	PLZST(50/30/20)	17	
Positions	1	у .	ŧ
Pb/La	0.0000	0.2517	0.0000
Zr/TVSn	0.0000	0.2517	0.0000
O,	0.3013	0.0296	-0.0614
02	0.1982	0.2521	0.5107
a=9.5291 Å, b=5.4956 A	c=5.5016 Å, α=γ=90°, β=125.257°		10000000
P4mm	PLZST(50/30/20)		
Positions	, a	у	ž.
PlvLa	0.0010	0.49381	0.2500
Ze/Ti/Sn	0.0000	0.2517	0.0000
0,	0.2130	0.2870	0.0260
O ₂	- 0.0572	0.0020	0.2510
O ₃	0.2130	0.2870	0.0267
a = 3.8844 Å, b = 3.8844 Å $\chi^2 = 2.51$	$\lambda, c = 3.9449 \ \lambda, \alpha = \beta = \gamma = 90^{\circ}$		

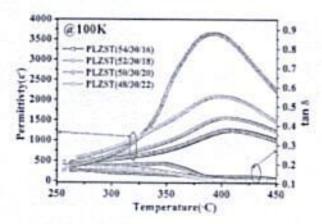


Fig. 2 Temperature dependent of dielectric constant (ε ε') and loss ton(δ) of these ceramics at 100 kHz for PLZST (54/30/16), PLZST (52/30/18), PLZST (50/30/20), and PLZST(48/30/22) ceramics, respectively

at room temperature, the piezo-coefficient (d_{33}) and voltage coefficient (g_{33}) were calculated for these PLZST specimens, as shown in Fig. 4a, b. To figure out the systematic domain orientation profile, we estimate the corresponding values of d_{33} and g_{33} of PLZST (50/30/20) after providing the specimen to fields that vary from (0.5-5) kV/cm. The PLZST (50/30/20) d_{33} and g_{33} values develop gradually and achieve saturation at maximum fields. The possibility of electrical, ionic, and orientation polarization in

the presence of an electric field is mainly accountable for the enhancement of d_{33} and g_{33} [33]. The FOM is mainly helpful to figure out if materials possess commercial utility dependent on the required features. The parameter FOM will decide the performance of the PLZST in this instance, and calculating the value of FOM employing dielectric loss indicates the PLZST (50/30/20). With the help of FOM, we can estimate the device performance, where piezo material can exist.

The electrical response (i.e., transport characteristics) of polycrystalline samples at different temperatures has been examined with complex impedance spectroscopy [34, 35]. This spectroscopy offers the direction and correlation of the real system and paired electrical circuits with discrete electrical components. Figure 5 displays the Nyquist graphs of PLZST (54/30/16), PLZST (52/30/18), PLZST (50/30/20), and PLZST (48/30/22) at 600 °C. At lower temperatures, the features of a single semicircle apply to the essential conduction mechanism. At the same temperature, the impedance spectrum intercepts alterations towards the origin, indicating that the resistivity property of the material reduces with substitution of La and Sn in PZT. These specimen impedances with compositional variation were reproduced at the same temperature employing a suitable/equivalent circuit built up of bulk resistance

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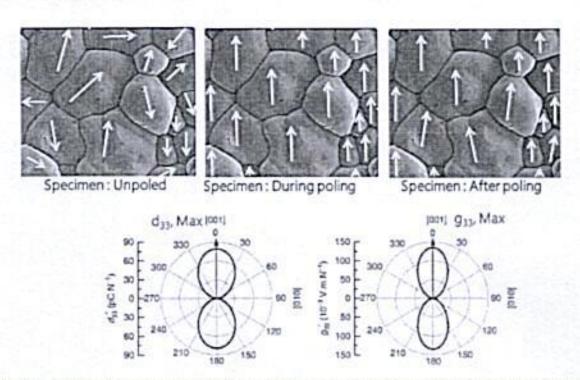


Fig. 3 Schematic representation of domain orientation under unpoled and poled conditions and the axial rotation of domain while, measuring the d₁₃ and g₁₃ at room temperature

R and CPE (constant phase element) linked in parallel. After fitting, the following equation provides accurate R and CEP data [35].

$$Z = \frac{1}{[T(jw)^p]},$$
 (1)

where CPE is represented in capacitance units and is the angular frequency ($\omega = 2\pi f$). The equations for the real (Z') and imaginary (Z") impedance components of the similar circuit are provided in the potential reports [35]. The difference in relaxation time is demonstrated by the substitution shifts of La and Sn symmetry (semicircle) size with frequency decreases in quantity. These different time constant values represent non-delay relaxation types. Apart for the PLZST (50/30/20), the peak oscillates from higher to lower frequency, which is the opposite of ideal nature's tendency. In a consequence, the effect of La and Sn substitution on the electrical properties of PLZST is evident across the spectra.

In general, it can be done to create oxygen vacancies while sintering oxide-based perovskites. The normal Ti* contribution decreases as well oxygen vacancies. The ferroelectric fatigue tolerance is explained by the control of oxygen vacancies in the presence of La* ion replacement [34]. Cation substitution impacts behavior and is highly tied to structural defects. The structural shortcomings caused by cation substitution are going to be significant interest. These can be understood through impedance spectroscopy. The plot of the imaginary part of (Z'/Z") compared to frequency of PLZST(54/30/16), PLZST(52/30/18), PLZST(50/30/20), and PLZST(48/30/22) can be seen in Fig. 6. The aforementioned graphs represent the Debay peaks with the greatest frequency characteristic shifts in the temperature range and just represent the grain contribution. With increasing temperatures, the maximum frequency values of PLZST (54/30/16), PLZST (52/30/18), PLZST (50/30/20), and PLZST (48/30/22) altered towards higher frequencies, reflecting decreases in relaxation time ($r = 1/2\pi f_{max}$).

$$r = r_0 \exp(\frac{E_g}{k_{BT}}). \tag{2}$$

It is commonly understood that is the relaxation time, ER is the dielectric relaxation activation energy, K_B is the Boltzmann constant, and T is the absolute temperature. The values of E_a in both specimens show

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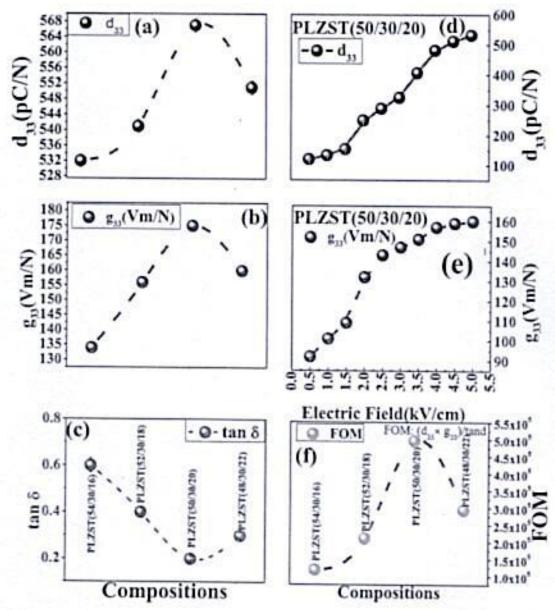


Fig. 4 a Room-temperature measurement of Piezo-coefficient (d₁₁) of PLZST(54/30/16), PLZST(52/30/18), PLZST(50/30/20), and PLZST(48/30/22). b Piezoelectric voltage coefficient (g₁₃) and dielectric loss (tan δ) ⊕ (c), Figure of merit ⊕ (f) of

PLZST(54/30/16), PLZST(52/30/18), PLZST(50/30/20), and PLZST(48/30/22). The Piezo-coefficient $(d_{33}) \oplus (d)$ and Piezo-electric voltage coefficient $(g_{33}) \oplus (e)$ at different fields for the PLZST (50/30/20)

similar dielectric relaxation. The E_g values here suggest that the existence of oxygen vacancies plays an important role in dielectric relaxation. The activation energy E_g for the smiles is slightly greater than the contribution of the grain boundary. Table 2 shows the values of complete set bulk resistance and capacitance as they sweep the temperature range from 400 to

600 °C. Figure 7 shows the inverse of frequency (relaxation time) versus function of temperature in order to figure out the grain contribution for these specimens. The E_g value for the PLZST (50/30/20) shows that the structure easily supports the grain or domain orientation for obtaining better d₃₃ and g₃₃ while achieving lower dielectric loss.

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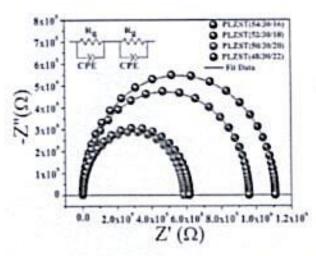
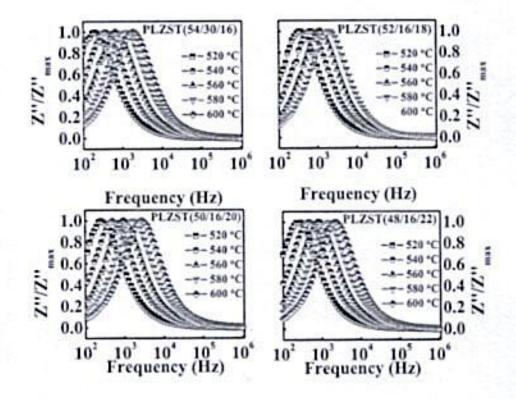


Fig. 5 Experimental and simulated semicircles plot at 600 °C for the PLZST(54/30/16), PLZST(52/30/18), PLZST(50/30/20), and PLZST(48/30/22)

4 Conclusions

A solid-state approach was employed to successfully produce high-density pure phase polycrystalline materials. The structural phase purity of these substances was quantified via structural refinement. From structural phase purity, it was confirmed that PLZST ceramics were successfully synthesized via a solid-state route. The dual phase presence of P4mm and Cc over the co-substitution of Zr4* and Ti4* in PLZST (50/30/20) ceramics confirms the contribution of both polarization directions. The piezoelectric and impedance studies suggested that the PLZST (50/30/20) is the most effective composition. The estimated activation energy of these specimens also supports the ideal composition. This perfect chemical is a viable choice for meeting the commercial needs of industries.

Fig. 6 Frequency dependence of imaginary part of impedance (Z'/Z") of PLZST(54/30/16), PLZST(52/30/18), PLZST(50/30/20), and PLZST(48/30/22)



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Table 2 Bulk resistance R and CPE (constant phase element) of PLZST(54/30/16), PLZST(52/30/18), PLZST(50/30/20), and PLZST(48/30/22)

Temp (°C)	$Rg(\Omega)$	CPE(nF)	$Rg(\Omega)$	CPE(nF)	$Rg(\Omega)$	CPE(nF)	$R_{g}(\Omega)$	CPE(nF)
	PLZST(54/30/	16)	PLZST(52/30/	18)	PLZST(50/30/	20)	PLZST(48/30	V22)
400	4.38×10 ⁸	0.14	7.128×10 ⁸	0.1685	3.714×10 ⁸	0.2082	3.438×10*	0.2275
420	1.717×108	0.13	2.374×10 ⁸	0.1535	1.41×10 ⁸	0.188	1.263×10*	0.2.064
440	1.01×10 ⁸	0.124	9.986×107	0.141	6.159×107	0.1722	5.53×107	0.1894
460	5.0049 × 10 ³	0.1142	5.142×107	0.131	3.077×107	0.1621	2.7×10°	0.1758
480	2.699×10 ⁷	0.1078	2.5789×107	0.1227	1.529×10 ⁷	0.1504	1.407×10 ³	0.164
500	1.453 × 107	0.1045	1.39×10 ²	0.1147	7.682×10 ^A	0.144	7.503×10 ⁸	0.1522
520	8.174×10 ⁶	0.094	7.588×10 ⁶	0.1092	4.046×10 ⁶	0.1505	4.29×10 ⁴	0.1447
540	4.678×10 ⁶	0.09328	4.319×10 ⁶	0.1042	2.25×10 ⁶	0.154	2.53×10 ⁶	0.1373
560	2.73×10 ⁶	0.08964	2.549×10 ⁶	0.09735	1.3957×10 ⁶	0.1407	1.519×10 ⁶	0.1296
580	1.6298×10 ⁶	0.08555	1.54×10 ⁴	0.09307	894,000	0.1155	940,000	0.1243
600	1.107×10 ⁶	0.08055	956,800	0.08899	584,800	0.1051	616,000	0.1171

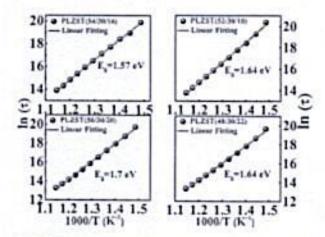


Fig. 7 Inverse frequency (relaxation time) versus temperature of PLZST(54/30/16), PLZST(52/30/18), PLZST(50/30/20), and PLZST(48/30/22)

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Author contributions

KT: Investigation and methodology, JA: Data curation and writing draft, RG: Methodology and data curation, NCRB, PS: Methodology and data validation, PG: Data validation and review and editing the manuscript, GN, ACB, Data validation, review, and editing the manuscript. VP: Conceptualization, supervision, and review and writing the manuscript.

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Data availability

The authors declare that all the data generated or analyzed during this study are included in this manuscript.

Declarations

Conflict of interest The authors declare that they have no conflict of interest.

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