



Verification Submitted Institute Data for Atal Ranking of Institutions on Innovation Achievements (ARIIA) - 2020-21

Institute Name: SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR [ARI-C-43606]

List all the departments / centers / units are part of innovation and startup ecosystem of the institite

No Data Flled!

Participation of HEI in Innovation & Entrepreneurship Initiatives of Ministry of Education (Till Today)

Tarticipation of the infinitivation & Entrep	T OTTO GIT OTTO	initiati voo oi	minoti y oi		(11111111111111111111111111111111111111	,,						
Programs/Initiatives	Status	Registration ID	Status Phase-1	Reason Phase-1	Comment Phase-1	Document Phase-1	Remarks Phase-1	Status Phase-2	Reason Phase-2	Comment Phase-2	Document Phase-2	Remarks Phase-2
Adopted National Innovation and Start-up Policy at the HEI	Yes	Not Required	Approved									
Establishment of Institution's Innovation Council (IIC) at HEI	YES	IIC Registration ID : IC201811446	Approved									
Trained Innovation Ambassadors at HEI	YES	Not Required	Approved									
Participation in Smart India Hackathon (SIH)	Yes	Not Required	Approved									
Facilitated listing start-ups/ technologies in Young India combating COVID with Knowledge, Technology and Innovation (YUKTI 2.0) portal of MIC	No	Not Required	Approved									
Participation in National Education Alliance of Technology (NEAT)	No	Not Required	Approved									

Nam e of Prog ram (Full Nam e)	Prog ram The me	Prog ram Type	Prog ram Cate gory	Orga nizin g Depa rtme nt / Cent re / Stud ent Body Nam e	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Prog ram Loca tion	Inter nal Parti cipan ts (Stud ent)	Inter nal Parti cipan ts (Fac ulty)	Exter nal Parti cipan ts (Stud ent)	Exter nal Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Had institute spent expenses either from own resource/received fund to organise the program/activity/eve nt?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
Chall enge s in Biop olym er Prod uctio n	Inno vatio n	Work shop	Instit ute Lead Activi ty	Depa rtme nt of Biote chnol ogy and Bioc hemi cal Engi	28-1 0-20 19 00:0 0:00	28-1 0-20 19 00:0 0:00	1	Withi n Cam pus	140	10	0	0	150		No	Appr oved									

Sr no	Nam e of Prog ram (Full Nam e)	Prog ram The me	Prog ram Type	Prog ram Cate gory	Orga nizin g Depa rtme nt / Cent re / Stud ent Body Nam e	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Prog ram Loca tion	Inter nal Parti cipan ts (Stud ent)	Inter nal Parti cipan ts (Fac ulty)	Exter nal Parti cipan ts (Stud ent)	Exter nal Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Had institute spent expenses either from own resource/received fund to organise the program/activity/eve nt?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
					neeri ng										Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )											
2	Natio nal Pollu tion Prev entio n Day	Inno vatio n	Awar enes s	Instit ute Lead Activi ty	Depa rtme nt of Biote chnol ogy and Bioc hemi cal Engi neeri ng	02-1 1-20 19 00:0 0:00	02-1 1-20 19 00:0 0:00	1	Within Campus	65	9	0	0	74	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Approved									
3	TWO DAY WO RKS HOP ON INN OVA TION LEA DER SHIP AND CRE ATIV ITY	Entre pren eurs hip/S tartu p	Work shop	Instit ute Lead Activi ty	Inno vatio n and Entre pren eurs hip Deve lopm ent Club	26-0 4-20 19 00:0 0:00	27-0 4-20 19 00:0 0:00	2	Within Campus	25	2	0	0	27	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees	No	Approved									

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Sr no	Nam e of Prog ram (Full Nam e)	Prog ram The me	Prog ram Type	Prog ram Cate gory	Orga nizin g Depa rtme nt / Cent re / Stud ent Body Nam e	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Prog ram Loca tion	Inter nal Parti cipan ts (Stud ent)	Inter nal Parti cipan ts (Fac ulty)	Exter nal Parti cipan ts (Stud ent)	Exter nal Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Had institute spent expenses either from own resource/received fund to organise the program/activity/eve nt?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
4	TWO DAY WO RKS HOP ON FOU NDA TION SKIL LS ON ENT REP REN EUR SHIP	Entre pren eurs hip/S tartu p	Work shop	Instit ute Lead Activi ty	IN A O TO T	21-0 8-20 19 00:0 0:00	22-0 8-20 19 00:0 0:00	2	Within Campus	23	1	4	0	28	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Approved									
5	PRO BLE M SOL VIN G THR OUG H PYT HON	Entre pren eurs hip/S tartu p	Skill devel opm ent	Instit ute Lead Activi ty	NANDTP REUTE OELANT OELANT PREED DELANT CB	14-1 0-20 19 00:0 0:00	14-1 0-20 19 00:0 0:00	1	Withi n Cam pus	35	3	0	0	38	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees	No	Appr oved									
6	MOB ILE APP DEV ELO PME NT USIN G FLU TTE R	Entre pren eurs hip/S tartu p	Skill devel opm ent	Stud ent Lead Activi ty	DEPT MENTOF MENTOF COUTER IE NOT ER IE NOT EN	28-1 0-20 19 00:0 0:00	28-1 0-20 19 00:0 0:00	1	Within Campus	35	0	0	0	35	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Approved									

36	CUOII	///	Jetani	3 01 0	0-cuii	Iculai	even	ισιρισ	granis	Telati	tu tu	IIIIOV	ation,	IF IX al	iu Lilitepreneu	rsnip/Start-up C	onduc	ieu b	y tile i	ILI						
Sr no	Nam e of Prog ram (Full Nam e)	Prog ram The me	Prog ram Type	Prog ram Cate gory	Orga nizin g Depa rtme nt / Cent re / Stud ent Body Nam e	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Prog ram Loca tion	Inter nal Parti cipan ts (Stud ent)	Inter nal Parti cipan ts (Fac ulty)	Exter nal Parti cipan ts (Stud ent)	Exter nal Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Had institute spent expenses either from own resource/received fund to organise the program/activity/eve nt?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
7	A PEE K INTO THE WO RLD OF IoT, DAT A SCIE NCE AND AI	Inno vatio n	Awar enes s	Stud ent Lead Activi ty	DEP ART MEN T OF COM PUT SCIE NCE ANG ENEE RINE G	07-0 8-20 19 00:0 0:00	07-0 8-20 19 00:0 0:00	1	Within Campus	123	8	0	0	131	Total Expens e e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Appr oved									
8	Rece nt Adva nces in Mec hanic al Engi neeri ng (RA ME 2019	Inno vatio n	Conf eren ce	Instit ute Lead Activi ty	Depa rtme nt of Mec hanic al Engi neeri ng	18-0 6-20 19 00:0 0:00	18-0 6-20 19 00:0 0:00	1	Withi n Cam pus	51	23	76	9	159	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees	Award / Position / Recogn ition Secure d	Approved									
9	Tech nolo gy and Inno vatio n	Inno vatio n	Awar enes s	Instit ute Lead Activi ty	Depa rtme nt of Mec hanic al Engi neeri ng	15-1 0-20 19 00:0 0:00	15-1 0-20 19 00:0 0:00	1	Outsi de Cam pus	0	2	50	10	62	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Approved									

Sec	tion 1	> I : I	Jetails	of Co	o-curr	icular	event	ts/pro	grams	relate	ed to I	nnova	ation,	IPR a	nd Entrepreneu	rship/Start-up Co	onduc	ted by	the F	IEI						
Sr no	Nam e of Prog ram (Full Nam e)	Prog ram The me	Prog ram Type	Prog ram Cate gory	Orga nizin g Depa rtme nt / Cent re / Stud ent Body Nam e	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Prog ram Loca tion	Inter nal Parti cipan ts (Stud ent)	Inter nal Parti cipan ts (Fac ulty)	Exter nal Parti cipan ts (Stud ent)	Exter nal Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Had institute spent expenses either from own resource/received fund to organise the program/activity/eve nt?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
10	Stud ent conv entio ns progr amm es of SAE	Inno vatio n	Inno vatio n Cont est	Instit ute Lead Activi ty	Depa rtme nt of Mec hanic al Engi neeri ng	14-0 1-20 20 00:0 0:00	14-0 1-20 20 00:0 0:00	1	Withi n Cam pus	20	3	0	0	23	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Approved									
11	Role of elect ronic s and softw are in auto motiv e adva nce ment	Inno vatio n	Motiv ation al spea k	Instit ute Lead Activi ty	Depa rtme nt of Mec hanic al Engi neeri ng	03-0 3-20 20 00:0 0:00	03-0 3-20 20 00:0 0:00	1	Withi n Cam pus	50	20	0	0	70	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Appr oved									
12	ANS YS	Inno vatio n	Work shop	Instit ute Lead Activi ty	Depa rtme nt of Mec hanic al Engi neeri ng	05-0 3-20 20 00:0 0:00	05-0 3-20 20 00:0 0:00	1	Within Campus	120	6	0	0	126	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Appr oved									

Se	ction 1	>   :	Details	S OT C	o-curr	icular	even	ts/pro	grams	relate	ed to I	nnova	ation,	IPK a	na Entrepreneul	rship/Start-up Co	onauc	tea by	tne r	1EI						
Sr no	Nam e of Prog ram (Full Nam e)	Prog ram The me	Prog ram Type	Prog ram Cate gory	Orga nizin g Depa rtme nt / Cent re / Stud ent Body Nam e	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Prog ram Loca tion	Inter nal Parti cipan ts (Stud ent)	Inter nal Parti cipan ts (Fac ulty)	Exter nal Parti cipan ts (Stud ent)	Exter nal Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Had institute spent expenses either from own resource/received fund to organise the program/activity/eve nt?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
13	Bioe nterp rene urshi p- Opp ortun ities and Chall eneg es	Entre pren eurs hip/S tartu p	Motiv ation al spea k	Stud ent Lead Activi ty	Depa rtme nt of Biote chnol ogy and Bioc hemi cal Engi neeri ng	05-0 2-20 20 00:0 0:00	05-0 2-20 20 00:0 0:00	1	Withi n Cam pus	98	7	0	0	105	No	No	Appr oved									
14	Time T4 Trav el 2020	Inno vatio n	Inno vatio n Cont est	Stud ent Lead Activi ty	Depa rtme nt of Biote chnol ogy and Bioc hemi cal Engi neeri ng	28-0 2-20 20 00:0 0:00	28-0 2-20 20 00:0 0:00	1	Within Cam pus	10	5	0	0	15	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Approved									
15	Robo tic Desi gn and Prod uct Deve lopm ent	Inno vatio n	Work shop	Stud ent Lead Activi ty	Depa rtme nt of Elect ronic s and Com muni catio n Engi neeri ng	25-1 0-20 19 00:0 0:00	26-1 0-20 19 00:0 0:00	2	Withi n Cam pus	60	0	11	0	71	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Approved									

3	ection	1 > 1.	Detail	SOIC	o-curr	iculai	even	(S/pro	grams	relati	eu to	IIIIIOV	ation,	IFK a	ia Entrepreneu	rsnip/Start-up C	onauc	tea by	, the r	161						
S n	Nam e of Prog	Prog ram The me	Prog ram Type	Prog ram Cate gory	Orga nizin g Depa rtme nt / Cent re / Stud ent Body Nam e	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Prog ram Loca tion	Inter nal Parti cipan ts (Stud ent)	Inter nal Parti cipan ts (Fac ulty)	Exter nal Parti cipan ts (Stud ent)	Exter nal Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Had institute spent expenses either from own resource/received fund to organise the program/activity/eve nt?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
1	6 Shas tra 2019	Inno vatio n	Inno vatio n Cont est	Stud ent Lead Activi ty	Depa rtme nt of Elect ronic s and Com muni catio n Engi neeri ng	15-1 0-20 19 00:0 0:00	15-1 0-20 19 00:0 0:00	1	Withi n Cam pus	0	0	40	0	40	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	Award / Position / Recogn ition Secure d	Approved									
1	7 Intro duct ory work shop in Ardui no and Sens ors		Skill devel opm ent	Instit ute Lead Activi ty	Depa rtme nt of Elect ronic s and Com muni catio n Engi neeri ng	06-0 1-20 20 00:0 0:00	08-0 1-20 20 00:0 0:00	3	Withi n Cam pus	30	0	0	0	30	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Approved									
1	8 IEE AWA REN ESS GRA MME	vatio n	Awar enes s	Instit ute Lead Activi ty	DEP ART MEN T OF ELE CTRI CAL AND ELE CTR ONI CS ENG INEE RIN G	23-1 1-20 19 00:0 0:00	23-1 1-20 19 00:0 0:00	1	Withi n Cam pus	52	1	0	0	53	No	No	Approved									

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Sr no	Nam e of Prog ram (Full Nam e)	Prog ram The me	Prog ram Type	Prog ram Cate gory	Orga nizin g Depa rtme nt / Cent re / Stud ent Body Nam e	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Prog ram Loca tion	Inter nal Parti cipan ts (Stud ent)	Inter nal Parti cipan ts (Fac ulty)	Exter nal Parti cipan ts (Stud ent)	Exter nal Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Had institute spent expenses either from own resource/received fund to organise the program/activity/eve nt?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?	Statu S Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
19	PES QUIZ 2019	Inno vatio n	Skill devel opm ent	Instit ute Lead Activi ty	DEPT MEN OF ELTRI CANDELT CON CONTROL	01-1 0-20 19 00:0 0:00	01-1 0-20 19 00:0 0:00	1	Within Campus	70	5	0	0	75	No	No	Appr oved									
20	KNO W YOU R BRA NCH BE A STE P AHE AD	Inno vatio n	Awar enes s	Instit ute Lead Activi ty	DEP ART MEN T OF ELE CTRI CAL AND ELTR ONI CS ENG ENG RIN G	09-0 1-20 20 00:0 0:00	10-0 1-20 20 00:0 0:00	2	Withi n Cam pus	12	8	0	0	20	No	No	Approved									
21	POW ER QUIZ	Inno vatio n	Awar enes s	Instit ute Lead Activi ty	DEP ART MEN TOF ELTRI CAND ELTR ONI CS ENG EINEE RIN G	03-1 0-20 19 00:0 0:00	03-1 0-20 19 00:0 0:00	1	Within Cam pus	90	1	0	0	91	No	No	Approved									

Sr no	Nam e of Prog ram (Full Nam e)	Prog ram The me	Prog ram Type	Prog ram Cate gory	Orga nizin g Depa rtme nt / Cent re / Stud ent Body Nam e	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Prog ram Loca tion	Inter nal Parti cipan ts (Stud ent)	Inter nal Parti cipan ts (Fac ulty)	Exter nal Parti cipan ts (Stud ent)	Exter nal Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Had institute spent expenses either from own resource/received fund to organise the program/activity/eve nt?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
22	ELE CTRI C VEHI CLE S FOR SUS TAIN ABL E ENVI RON MEN T	Inno vatio n	Awar enes s	Instit ute Lead Activi ty	DATE OF LET LET CONTROL OF LET LET CONTROL OF LET	30-1 0-20 19 00:0 0:00	30-1 0-20 19 00:0 0:00	1	Within Cam pus	75	1	0	0	76	No	No	Approved									
23	AUT OCA D- ELE CTRI CAL SOF TWA RE	Inno vatio n	Skill devel opm ent	Instit ute Lead Activi ty	DATE OF LET A MENT OF LET A ME	13-0 2-20 20 00:0 0:00	13-0 2-20 20 00:0 0:00	1	Within Cam pus	15	1	0	0	16	No	No	Appr oved									
24	Rece nt trend s in Civil Engi neeri ng	Inno vatio n	Semi nar	Instit ute Lead Activi ty	Depa rtme nt of Civil Engi neeri ng	21-1 0-20 19 00:0 0:00	21-1 0-20 19 00:0 0:00	1	Within Cam pus	290	15	0	0	305	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees	No	Approved									

Sec	tion 1	> I : L	Jetails	s of Co	o-curr	icular	event	ts/pro	grams	relate	ed to I	nnova	ation,	IPK a	nd Entrepreneu	rship/Start-up Co	onduc	ted by	the F	IEI						
Sr no	Nam e of Prog ram (Full Nam e)	Prog ram The me	Prog ram Type	Prog ram Cate gory	Orga nizin g Depa rtme nt / Cent re / Stud ent Body Nam e	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Prog ram Loca tion	Inter nal Parti cipan ts (Stud ent)	Inter nal Parti cipan ts (Fac ulty)	Exter nal Parti cipan ts (Stud ent)	Exter nal Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Had institute spent expenses either from own resource/received fund to organise the program/activity/eve nt?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
25	Futur e Fit # 3: Tow ards a new philo soph y of const ructi on	Inno vatio n	Ment oring Sess ion	Instit ute Lead Activi ty	Depa rtme nt of Civil Engi neeri ng	15-1 1-20 19 00:0 0:00	15-1 1-20 19 00:0 0:00	1	Withi n Cam pus	171	15	0	0	186	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Appr oved									
26	Revit softw are traini ng	Inno vatio n	Work shop	Instit ute Lead Activi ty	Cent er for Inno vatio n and Rese arch, CE	13-0 2-20 20 00:0 0:00	14-0 2-20 20 00:0 0:00	2	Withi n Cam pus	66	15	0	0	81	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Approved									
27	Fund ame ntals of Struc tural Anal ysis	Inno vatio n	Semi nar	Instit ute Lead Activi ty	Depa rtme nt of Civil Engi neeri ng	20-0 2-20 20 00:0 0:00	20-0 2-20 20 00:0 0:00	1	Withi n Cam pus	55	15	0	0	70	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	No	Appr oved									

36	CLIOII		Details	S OI C	o-cui i	lculai	CVCII	ισιριο	granis	leiau	cu to i	11111046	ation,	II IX ai	iu Liitiepi	reneui	Snip/Start-up Co	Jiiuuc	teu Dy	, me i	1121						
Sr no	Nam e of Prog ram (Full Nam e)	Prog ram The me	Prog ram Type	Prog ram Cate gory	Orga nizin g Depa rtme nt / Cent re / Stud ent Body Nam e	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Prog ram Loca tion	Inter nal Parti cipan ts (Stud ent)	Inter nal Parti cipan ts (Fac ulty)	Exter nal Parti cipan ts (Stud ent)	Exter nal Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Had institute expenses of from ow resource/rec fund to organ program/activ nt?	either wn ceived nise the	Did any of the participants received any awards/recognition for startup / innovation ideas / research?	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
28	Inno vativ e tech nolo gies in Com putin g, Emb edde d and powe r engi neeri ng	Inno vatio n	Conf eren ce	Instit ute Lead Activi ty	Depa rtme nt of Elect ronic s and Com muni catio n	08-0 5-20 19 00:0 0:00	09-0 5-20 19 00:0 0:00	2	Withi n Cam pus	20	Э	5	2	30	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	30000	No	Approved									
29	Rece nt Adva nces in Mec hanic al Engi neeri ng (RA ME 2019	Inno vatio n	Conf eren ce	Instit ute Lead Activi ty	Depa rtme nt of Mec hanic al Engi neeri ng	18-0 6-20 19 00:00 0:00	18-0 6-20 19 00:0 0:00	1	Withi n Cam pus	51	23	76	9	159	Total Expens e Amount Incurre d by Institute to Organis e the Progra m (In Rupees )	5000	Award / Position / Recogn ition / Secure d Design and Devel opme on to fan Autom attic Ironin g Machine Award / Recogn ition / Award	Approved									

_	Liiti e	n eneur	silip/Ot	ai t-up	at tile	Stati	e, Ivali	Ollai a	illu (U	i) iiile	matio	mai Le	<i>y</i> 61 (C	n gain	Zed by External	Organizations)	Selli r	y tile								
	N: e Sr Pr no (F N:	of Progom ram The me	Prog ram Type	Orga nizin g Agen cy / Instit ute Nam e	Orga nizin g Agen Cy Type	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Parti cipan ts (Stud ents)	Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Awar ds/R ecog nition s/Ac hieve ment s	Awar d/Position/ Reco gnitio n Secu red	Title of Inno vatio n/ Start -up Secu red the Awar Reco gnitio n	Had institute spent expenses either from own resource/ received fund towards sending delegation to participate / represent the activity /event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
	1 Cuentre in succe me fict on proper essential in the second in the seco	Inno vatio n fa di di atti di A Dili iio n	Work	Muth aya mma l Engi neeri ng Colle ge, Nam makk al, Tami l Nadu	Educ ation al Instit ute	04-1 1-20 19 00:0 0:00	06-1 1-20 19 00:0 0:00	3	0	2	2	No			No	No	Approved									
	2 Rentado no in co po e m ria	Inno vatio n m sit	Skill devel opm ent	Vidy a Acad emy of Scie nce and Tech nolo gy Tech nical Cam pus, Kilim anoo r, Keral a	Educ ation al Instit ute	16-1 2-20 19 00:0 0:00	18-1 2-20 19 00:0 0:00	3	0	3	3	No			No	No	Approved									
	3 Na tec nil y t Na Tr log	h Inno og vatio o n no bo	Skill devel opm ent	Gove rnme nt Engi neeri ng Colle ge, Kozh ikode	Educ ation al Instit ute	06-0 1-20 20 00:0 0:00	11-0 1-20 20 00:0 0:00	6	0	2	2	No	1	1	No	No	Appr oved									

	. ор. о.	10010	11/0/01	art ap	at the	<del>J Ottati</del>	o, mai	ona c	arra (O	· / ····to	matio	man Ec	7701 (0	n gain	Edd by External	Organizations)	OOH K	<i>y</i>								
Sr no	Nam e of Prog ram (Full Nam e)	Prog ram The me	Prog ram Type	Orga nizin g Agen cy / Instit ute Nam e	Orga nizin g Agen cy Type	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days )	Parti cipan ts (Stud ents)	Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Awar ds/R ecog nition s/Ac hieve ment s	Awar d / Posit ion / Reco gnitio n Secu red	Title of Inno vatio n / Start -up Secu red the Awar d / Reco gnitio n	Had institute spent expenses either from own resource/ received fund towards sending delegation to participate / represent the activity /event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
4	Indu strial Auto mati on	Inno vatio n	Skill devel opm ent	Colle ge of Engi neeri ng, Triva ndru m	Educ ation al Instit ute	30-1 2-20 19 00:0 0:00	04-0 1-20 20 00:0 0:00	6	0	5	5	No			No	No	Appr oved									
5	Teac hing learn ing proc ess	Inno vatio n	Skill devel opm ent	Mala bar Instit ute of Tech nolo gy, Kann ur	Educ ation al Instit ute	30-1 2-20 19 00:0 0:00	01-0 1-20 20 00:0 0:00	3	0	1	1	No			No	No	Appr oved									
6	NBA accr edita tion	Inno vatio n	Work shop	Mari an Man age ment Instit ute, Peer ume de, Keral a	Educ ation al Instit ute	06-0 2-20 20 00:0 0:00	06-0 2-20 20 00:0 0:00	1	0	2	2	No			No	No	Appr oved									
7	Rebo ot Keral a Hack atho n	Inno vatio n	Hack atho n	Depa rtme nt of High er Educ ation Keral a	Govt. Agen cy (Stat e)	28-0 2-20 20 00:0 0:00	01-0 3-20 20 00:0 0:00	3	12	0	12	No			TotalTo 18 2600 tal 28 2600 tal 29 2600 tal 29 2600 tal 20 2600 ta	No	Appr oved									

	i chi c	i icui 3	iiip/Oti	αι ι-αρ	at till	Cotati	o, Hati	Onan c	iiia (O	1 <i>)</i> 11110	inatio	iiai L	2 4 CI ( 1	or garn	zed by External	Organizations)	SCIIL K	y tile								
Sr no	Nam e of Prog ram (Full Nam e)	Prog ram The me	Prog ram Type	Orga nizin g Agen cy / Instit ute Nam e	Orga nizin g Agen cy Type	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Parti cipan ts (Stud ents)	Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Awar ds/R ecog nition s/Ac hieve ment s	Awar d / Position / Reco gnitio n Secu red	Title of Inno vatio n / Start -up Secu red the Awar d / Recognitio n	Had institute spent expenses either from own resource/ received fund towards sending delegation to participate / represent the activity /event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
8	ICTA K Tech athlo n	Inno vatio n	Inno vatio n Cont est	ICT Acad emy of Keral a	Govt. Agen cy (Stat e)	05-0 3-20 20 00:0 0:00	06-0 3-20 20 00:0 0:00	2	4	1	5	No			TotalTo tal Expens e Amount Incurre d by Institute ? (In Rupees	No	Appr oved									
9	Proje ct EXE RGY 2020	Inno vatio n	Inno vatio n Cont est	Colle ge of Appli ed Scie nce Adoo r	Educ ation al Instit ute	10-0 2-20 20 00:0 0:00	10-0 2-20 20 00:0 0:00	1	2	0	2	Yes	First	Spea k Up App	TotalTo tal Expens e Amount Incurre d by Institute ? (In Rupees )	Award / Position / Recogn ition Secure d Speak Up App Start-up Secure d the Award / Recogn ition Award/ Recogn ition/Ac hievem ent Receiv ed for	Approved									

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S	Nam e of Prog ram o (Full Nam e)	Prog ram The me	Prog ram Type	Orga nizin g Agen cy / Instit ute Nam e	Orga nizin g Agen Cy Type	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Parti cipan ts (Stud ents)	Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Awar ds/R ecog nition s/Ac hieve ment s	Awar d / Positi ion / Reco gnitio n Secu red	Title of Inno vatio n / Start -up Secu red the Awar d / Reco gnitio n	Had institute spent expenses either from own resource/ received fund towards sending delegation to participate / represent the activity /event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
1	0 Proje ct EXE RGY 2020	Inno vatio n	Inno vatio n Cont est	Colle ge of Appli ed Scie nce Adoo r	Educ ation al Instit ute	10-0 2-20 20 00:0 0:00	10-0 2-20 20 00:0 0:00	1	2	0	2	Yes	Seco nd prize	Mr. Save r (Har dwar e)	TotalTo tal Expens e Amount Incurre d by Institute ? (In Rupees )	Award / Position / Position / Position / Position / Provided ition / Provided ition/Ac	Approved									
1	1 Youn g innov ators Meet Facili tator s Work shop	Entre pren eurs hip/S tartu p	Skill devel opm ent	ICT Acad emy Keral a	Govt. Agen cy (Stat e)	02-1 2-20 19 00:0 0:00	03-1 2-20 19 00:0 0:00	2	0	1	1	No			No	No	Appr oved									
1	2 KPIT Spar kle 2020	Entre pren eurs hip/S tartu p	Inno vatio n Cont est	KPIT	Corp orate / Indu stry Asso ciatio n	25-1 1-20 19 00:0 0:00	25-1 1-20 19 00:0 0:00	1	4	0	4	No			TotalTo tal Expens e Amount Incurre d by Institute ? (In Rupees )	No	Appr oved									

	nti opi o	iicui 3	iip/Ot	art-up	at the	Juan	e, man	onai a	and (O	i) iiite	matio	mai Ec	<i>y</i> (C	n gain	zed by External	Organizations)	SCIIL L	y tile								
S	Nam e of Prog r ram o (Full Nam e)	Prog ram The me	Prog ram Type	Orga nizin g Agen cy / Instit ute Nam e	Orga nizin g Agen cy Type	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Parti cipan ts (Stud ents)	Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Awar ds/R ecog nition s/Ac hieve ment s	Awar d / Posit ion / Reco gnitio n Secu red	Title of Inno vatio n / Start -up Secu red the Awar d / Reco gnitio n	Had institute spent expenses either from own resource/ received fund towards sending delegation to participate / represent the activity /event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
1:	KTU NSS Cell Proje ct Com petiti on	Inno vatio n	Inno vatio n Cont est	Keral a Tech nolo gical Univ ersity	Govt. Agen cy (Stat e)	21-0 6-20 19 00:0 0:00	21-0 6-20 19 00:0 0:00	1	4	0	4	No			No	No	Appr oved									
1.	4 Youn g Inno vator s Prog ram 2019	Entre pren eurs hip/S tartu p	Inno vatio n Cont est	Keral a Deve lopm ent and Inno vatio n Strat egic Coun cil	Govt. Agen cy (Stat e)	02-1 1-20 19 00:0 0:00	02-1 1-20 19 00:0 0:00	1	8	0	8	No			No	No	Appr oved									
15	iBET O 2019	Inno vatio n	Inno vatio n Cont est	Mod el Engi neeri ng colle ge Koch i	Educ ation al Instit ute	02-1 1-20 19 00:0 0:00	02-1 1-20 19 00:0 0:00	1	5	0	5	No			No	No	Appr oved									
10	6 Hack Cam p	Inno vatio n	Hack atho n	Hack Club	Corp orate / Indu stry Asso ciatio n	08-0 2-20 20 00:0 0:00	08-0 2-20 20 00:0 0:00	1	8	0	8	No			No	No	Appr oved									
1	7 Haku na Mata ta	Inno vatio n	Ideat ion	Sri Saira m Engi neeri ng Colle ge	Educ ation al Instit ute	20-0 9-20 19 00:0 0:00	21-0 9-20 19 00:0 0:00	2	4	0	4	No			TotalTo 2000 tal Expens e Amount Incurre d by Institute ? (In Rupees	No	Appr oved									

	ti opi ci	icui 3i	прос	ar t-up	at till	Juan	c, ivat	ionai e	ariu (o	i) iiic	matio	mai L	7 13 15	71 gairi	zed by External	Organizations	SCIIL L	y tile	11121							
Sr no	Nam e of Prog ram (Full Nam e)	Prog ram The me	Prog ram Type	Orga nizin g Agen cy / Instit ute Nam e	Orga nizin g Agen cy Type	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Parti cipan ts (Stud ents)	Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Awar ds/R ecog nition s/Ac hieve ment s	Awar d / Position / Reco gnitio n Secu red	Title of Inno vatio n / Start -up Secu red the Awar d / Reco gnitio n	Had institute spent expenses either from own resource/ received fund towards sending delegation to participate / represent the activity /event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
18	Githu b and Late x	Inno vatio n	Skill devel opm ent	Sree Ayya ppa Colle ge and ICFO SS	Educ ation al Instit ute	10-0 1-20 20 00:0 0:00	11-0 1-20 20 00:0 0:00	2	2	0	2	No			No	No	Appr oved									
19	Five day FDP on Com puter Prog ram ming in C	Inno vatio n	Work shop	Sree Budd ha Colle ge of Engi neeri ng, patto or, Alap puzh a	Educ ation al Instit ute	16-1 2-20 19 00:0 0:00	20-1 2-20 19 00:0 0:00	5	0	2	2	No			No	No	Appr oved									
20	NPT EL Onlin e certifi catio n	Inno vatio n	Awar enes s	IIT Khar agpu r	Govt. Agen cy (Cen tral)	01-0 7-20 19 00:0 0:00	31-1 0-20 19 00:0 0:00	12	0	1	1	No			No	No	Appr oved									
21	Wate r Thou ghts-A journ ey throu gh wate r builts cape s	Inno vatio n	Train ing	TKM COL LEG ENG INEE RIN G,OL LAM, KER ALA	Educ ation al Instit ute	15-0 7-20 19 00:0 0:00	19-0 7-20 19 00:0 0:00	5	0	1	1	No			No	No	Appr oved									

S		Prog ram The me	Prog ram Type	Orga nizin g Agen cy / Instit ute Nam e	Orga nizin g Agen cy Type	Prog ram Start Date	Prog ram End Date	Prog ram Dura tion(i n Days	Parti cipan ts (Stud ents)	Parti cipan ts (Fac ulty)	Total Num ber of Parti cipan ts	Awar ds/R ecog nition s/Ac hieve ment s	Awar d / Posit ion / Reco gnitio n Secu red	Title of Inno vatio n / Start -up Secu the Awar d / Reco gnitio n	Had institute spent expenses either from own resource/ received fund towards sending delegation to participate / represent the activity /event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research	Statu s Phas e-1	Reas on Phas e-1	Com ment Phas e-1	Docu ment Phas e-1	Rem arks Phas e-1	Statu s Phas e-2	Reas on Phas e-2	Com ment Phas e-2	Docu ment Phas e-2	Rem arks Phas e-2
2	2 AICT E Quali ty Initiat ives, Natio nal Initiat ives for Tech nical Teac hers Train ing and NEA T	Inno vatio n	Train ing	AICT E, MINI STR Y OF HRD	Govt. Agen cy (Cen tral)	06-0 3-20 20 00:0 0:00	06-0 3-20 20 00:0 0:00	1	0	1	1	No			No	No	Approved									

Section 2 > i : List the Academic Programs on Innovation, IPR and Entrepreneurship Development Offered During the Academic Period (2019-20)

Srn o	Title of Course/Subje ct Offered	Program Theme	Type of Course	Course Offering Depart ment/Ce ntre/Unit Name	Level of Cour se	Progr am Start Date	Progr am End Date	Progra m Duration (in Days)	Mode of Delivery	Total Number s of Particip ants	Total Numbers of Contact Hours of Course ( Minimum 30 Contact hours)	Status Phase-1	Reason Phase-1	Comme nt Phase-1	Docume nt Phase-1	Remark s Phase-1	Status Phase-2	Reason Phase-2	Comme nt Phase-2	Docume nt Phase-2	Remark s Phase-2
1	Marketing management	Entrepreneur ship/Startup, Innovation	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Mech anical Engin eerin g	01-08 -2019	31-12 -2019	153	Offline	60	45	Approve d									
2	Automobile Engineering	Innovation	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Mech anical Engin eerin g	01-01 -2020	25-05 -2020	146	Offline	60	45	Approve d									

3	Micro and nano manufacturin g systems	Innovation	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Mech anical Engin eerin g	01-01 -2020	25-05 -2020	146	Offline	60	45	Approve d					
4	Project	Innovation	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Mech anical Engin eerin g	01-08 -2019	25-05 -2020	299	Offline	120	80	Approve d					
5	Design Project	Innovation	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Mech anical Engin eerin g	01-08 -2019	31-12 -2019	153	Offline	82	45	Approve d					
6	Design Engineering	IPR, Innovation	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Mech anical Engin eerin g	01-01 -2020	25-05 -2020	146	Offline	82	45	Approve d					
7	Research methodology	Innovation	Elective/ Core Credit Course	Master	Depa rtmen t of Mech anical Engin eerin g	01-08 -2019	31-12 -2019	153	Offline	1	45	Approve d					
8	Sustainable energy processes	Innovation	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Mech anical Engin eerin g	01-01 -2020	25-05 -2020	146	Offline	60	45	Approve d					
9	Project	Innovation	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Biote chnol ogy and Bioch emic al Engin eerin g	16-12 -2019	10-08 -2020	239	Offline	34	50	Approve d					

10	Design project	Innovation	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Biote chnol ogy and Bioch emic al Engin eerin g	01-08 -2019	31-12 -2019	153	Offline	29	45	Approve d					
11	Principles of Management	IPR, Entrepreneur ship/Startup	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Com puter Scien ce and Engin eerin g	03-01 -2019	19-04 -2019	107	Offline	60	60	Approve d					
12	Design Project	Innovation	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Com puter Scien ce and Engin eerin g	01-08 -2019	31-12 -2019	153	Offline	75	60	Approve d					
13	Business Economics	IPR	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Com puter Scien ce and Engin eerin g	01-08 -2019	31-12 -2019	153	Online	47	60	Approve d					
14	Life Skills	Entrepreneur ship/Startup	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Com puter Scien ce and Engin eerin g	01-08 -2019	31-12 -2019	153	Online	64	45	Approve d					
15	Project	Innovation	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Com puter Scien ce and Engin eerin g	31-12 -2019	20-05 -2020	142	Offline	60	35	Approve d					

16	Energy Management and Auditing	Innovation	Elective/ Core Credit Course	Bachelo r	DEP ART MEN T OF ELEC TRIC AL AND ELEC TRO NICS ENGI NEE RING	13-02 -2020	26-06 -2020	135	Offline	28	45	Approve d					
17	Power Quality	Innovation	Elective/ Core Credit Course	Bachelo r	DEP ART MEN T OF ELEC TRIC AND ELEC TRO NICS ENGI NEE RING	19-08 -2019	29-11 -2019	103	Offline	28	45	Approve d					
18	Civil Engineering Drafting	Innovation	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	01-09 -2019	15-12 -2019	106	Offline	55	70	Approve d					
19	Advanced Concrete Technology	Innovation	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	01-08 -2019	15-12 -2019	137	Offline	46	45	Approve d					
20	Environment Impact and Assessment	Innovation	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	01-08 -2019	16-12 -2019	138	Offline	29	45	Approve d					
21	Design of Steel structures	Innovation	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	01-08 -2019	16-12 -2019	138	Offline	66	70	Approve d					
22	Highway Pavement Design	Innovation	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	01-08 -2019	16-12 -2019	138	Offline	37	70	Approve d					
23	Advanced Foundation Engineering	Innovation	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	01-08 -2019	16-12 -2019	138	Offline	14	45	Approve d					
24	Design project	Entrepreneur ship/Startup	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	01-08 -2019	16-12 -2019	138	Offline	66	45	Approve d					
25	Life skills	Entrepreneur ship/Startup	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	01-08 -2019	16-12 -2019	138	Offline	55	70	Approve d					
26	Business Economics	Entrepreneur ship/Startup	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	01-08 -2019	16-12 -2019	138	Offline	55	50	Approve d					

27	Principles of Management	Entrepreneur ship/Startup	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	13-01 -2020	30-06 -2020	170	Offline	66	70	Approve d					
28	Advanced Theory and Design of Reinforced Concrete Structures	Innovation	Elective/ Core Credit Course	Master	Civil Depa rtmen t	01-08 -2019	16-12 -2019	138	Offline	14	55	Approve d					
29	Research Methodology	Innovation	Elective/ Core Credit Course	Master	Civil Depa rtmen t	01-08 -2019	16-12 -2019	138	Offline	14	60	Approve d					
30	Advanced Metal Structures	Innovation	Elective/ Core Credit Course	Master	Civil Depa rtmen t	01-08 -2019	16-12 -2019	138	Offline	14	60	Approve d					
31	Experimental Methods and Instrumentati on	Innovation	Elective/ Core Credit Course	Master	Civil Depa rtmen t	01-08 -2019	16-12 -2019	138	Offline	14	60	Approve d					
32	Forensic Engineering	Entrepreneur ship/Startup	Elective/ Core Credit Course	Master	Civil Depa rtmen t	13-01 -2020	30-07 -2020	200	Online	14	50	Approve d					
33	Municipal Solid waste management	Innovation	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	13-01 -2020	30-07 -2020	200	Online	48	60	Approve d					
34	Town and Country planning	Innovation	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	13-01 -2020	30-07 -2020	200	Online	18	50	Approve d					
35	Project	Innovation	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	01-08 -2019	25-05 -2020	299	Offline	66	140	Approve d					
36	MINI PROJECT	Innovation	Elective/ Core Credit Course	Master	Civil Depa rtmen t	13-01 -2020	30-07 -2020	200	Offline	14	60	Approve d					
37	Thesis	Innovation	Elective/ Core Credit Course	Master	Civil Depa rtmen t	13-01 -2020	30-07 -2020	200	Offline	24	70	Approve d					
38	Design of Hydraulic structures	Innovation	Elective/ Core Credit Course	Bachelo r	Civil Depa rtmen t	13-01 -2020	30-07 -2020	200	Online	66	60	Approve d					
39	Theory and Design of Plates and Shells	Innovation	Elective/ Core Credit Course	Master	Civil Depa rtmen t	13-01 -2020	30-07 -2020	200	Online	14	50	Approve d					
40	Theory and design of plate and shells	Innovation	Elective/ Core Credit Course	Master	Civil Depa rtmen t	13-01 -2020	30-07 -2020	200	Offline	14	50	Approve d					

41	Advanced Design of Substructure s	Innovation	Elective/ Core Credit Course	Master	Civil Depa rtmen t	13-01 -2020	30-07 -2020	200	Offline	14	50	Approve d					
42	High Rise Structures	Innovation	Elective/ Core Credit Course	Master	Civil Depa rtmen t	01-08 -2019	15-12 -2019	137	Offline	24	50	Approve d					
43	Sustainable Construction	Innovation	Elective/ Core Credit Course	Master	Civil Depa rtmen t	01-08 -2019	15-12 -2019	137	Offline	24	50	Approve d					
44	Life Skills	Entrepreneur ship/Startup, Innovation	Elective/ Core Credit Course	Bachelo r	Depa rtmen t of Mech anical Engin eerin g	01-08 -2019	31-12 -2020	519	Offline	82	45	Approve d					

Section 2 > ii : List the Employment Generation Skill Development Programs Organized by the HEI on Innovation, IPR and Entrepreneurship Development During the Academic Period (2019-20)

Srno	Title of the Training Program	Program Theme	Type of Course	Course Offering Departm ent/Cent re/Unit Name	Progr am Start Date	Progr am End Date	Progr am Durati on(in Days)	Mode of Delivery	Total Numbers of Participa nts	Total Numbers of Contact Hours of Course ( Minimum 30 Contact hours)	Status Phase-1	Reason Phase-1	Commen t Phase- 1	Docume nt Phase-1	Remarks Phase-1	Status Phase-2	Reason Phase-2	Commen t Phase- 2	Docume nt Phase-2	Remarks Phase-2
1	Advanced Material Processing Technologies	Innovation	FDP in I&E / IPR	Departm ent of Mechani cal Engineer ing	08-07 -2019	12-07 -2019	5	Offline	30	35	Approve d									
2	Mathematics for Engineering research	Innovation	FDP in I&E / IPR	Mathem atics and Basic Sciences	10-08 -2020	14-08 -2020	5	Online	121	35	Approve d									
3	Futuristic research areas in Mechanical Engineering	Innovation	FDP in I&E / IPR	Departm ent of Mechani cal Engineer ing	21-07 -2020	25-07 -2020	5	Online	51	35	Approve d									
4	Current Environmental Impacts and Sustainable Research Solutions	Innovation	FDP in I&E / IPR	Departm ent of Biotechn ology and Biochem ical Engineer ing	21-07 -2020	27-07 -2020	7	Online	72	35	Approve d									
5	Research Methodology and Scientific Writing	IPR	FDP in I&E / IPR	IQAC	29-06 -2020	02-07 -2020	4	Online	168	35	Approve d									

6	Emerging Trends in Information Technology	Innovation	FDP in I&E / IPR	Departm ent of Compute r Science and Engineer ing	13-07 -2020	17-07 -2020	5	Online	102	30	Approve d					
7	FACULTY DEVELOPME NT PROGRAMM E ON COMPUTER PROGRAMMI NG IN C	Innovation	Employ ment Generati on Training Program s	DEPART MENT OF COMPU TER SCIENC E AND ENGINE ERING	16-12 -2019	20-12 -2019	5	Offline	23	35	Approve d					
8	FUNDAMENT ALS OF COMPUTERS AND NETWORKIN G	Entrepreneurs hip/Startup, Innovation	Employ ment Generati on Training Program s	COMPU TER SCIENC E AND ENGINE ERING	06-01 -2020	09-01 -2020	4	Offline	64	32	Approve d					
9	Innovative Design and Product Development	Innovation	FDP in I&E / IPR	Departm ent of Electroni cs and Commun ication Engineer ing	08-07 -2019	12-07 -2019	5	Offline	30	30	Approve d					

Section 2 > iii : List the Full Time Faculties had with a Degree (UG/PG/PhD) in Innovation/IPR/Entrepreneurship and (or) Received Specialized Training program of I&E, IPR (MDP, EDP, FDP, Short-term Certificate Course, of minimum 30 hours Duration) conducted by various State, Central Govt. agencies, and Knowledge Agencies in the Academic Period (2019-20)

Srno	Faculty Name	Department/Centr e/Unit Name	Designation	Do you have a degree in I&E & IPR?	Had the faculty received training on I&E & IPR during AY 2019- 20	Status Phase-1	Reason Phase-1	Comment Phase-1	Document Phase-1	Remarks Phase-1	Status Phase-2	Reason Phase-2	Comment Phase-2	Document Phase-2	Remarks Phase-2
1	Mr. Venugopal N	Department of Mechanical Engineering	Assistant Professor	No	No	Approved			Areas/Valid ate/Uploads /ARI-C- 43606/ARI- C- 43606_22-0 9-2021-09- 23-12.pdf	FDP Certificate					
2	Mr. V P Jayaprakash	Department of Computer Science and Engineering	Network Engineer	No	No	Approved			Areas/Valid ate/Uploads /ARI-C- 43606/ARI- C- 43606_22-0 9-2021-09- 31-28.pdf	FDP Certificate					

Section 3 > i : List Idea/Innovation Centric Student Clubs Are Functional at the HEI with Access to Co-working Space/Work-stations for Students with Facilities & Equipment Available to promote and Support Innovation, Entrepreneurship and IPR Activities in Campus

Srno	Name of Student Club	Type of Club	Year of Establish ment	Type of Facilities Available at the Club	Stude nt Club with Acces s to Other I&E Faciliti es at the HEI	No of Progra ms/Act ivities Organi zed by the Stude nt Club During the AY 2019- 20	Stude nt Club Team Lead Name	Student Club Team Lead Email	Student Club Team Lead Phone	Status Phase-1	Reason Phase-1	Comment Phase-1	Documen t Phase-1	Remarks Phase-1	Status Phase-2	Reason Phase-2	Comment Phase-2	Documen t Phase-2	Remarks Phase-2
1	Robotics Club	Idea Club	2019	3D Printing	Pre- Incuba tion Unit	0	Mr. U Aksha y	akshayu1 65492@g mail.com	8921243 620	Approved									
2	Makers Club	Innovation Club	2018	Co- working Space,3D Printing	Incuba tion Unit	1	Sivapr asad	sivasbce1 998@gm ail.com	8921058 375	Approved									

Sr no	Name of Pre- Incubatio n Centre	Type of Facilit y	Year of Establ ishme nt	Type of Faciliti es Availa ble at the Centr e	Pre- Incubati on with Access to Other I&E Facilities at the HEI	Name of the Funding Sche mes Availa ble with Pre-Incubation Unit, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Man agement team Strength Engaged at the Facility	Had the Pre- Incubation Unit Provided any Funding Support for Idea/Prototy pe/Innovatio n Development and implementati on during the Financial Year 2019- 20	Had institute Generated Income either from Services Offered by Pre- Incubation Centre/Facilit ies?	Had institute spent expenses either from own resource/received fund towards Establishment/Oper ation of Pre- Incubation Centre/Facilities?	Status Phase -1	Reaso n Phase -1	Comm ent Phase -1	Docu ment Phase -1	Rema rks Phase -1	Status Phase -2	Reaso n Phase -2	Comm ent Phase -2	Docu ment Phase -2	Rema rks Phase -2	
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1	Center for Innovatio n and Research - ME (CIR-ME)	Innov ation Centr e	2019	Co- workin g Space ,3D Printin g & Protot ype Equip ment	IPR Cell/Tec hnology Transfer Centre,S tudent Clubs	IPR Cell/T echnol ogy Transf er Centr e,Stud ent Clubs	Fac Sility Se Inc har hil Na ra me va na n	0	No	No	Yes	Appro ved					
							Fac an ail.										
							Fac 99 ility 40 Inc 23 har 63 ge 95 Ph one										

Source of Grant / Fund	Agency Name	Agency Type	Total Grants / Funds Received by Pre- Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)
Funding Agency	Centre for Engineering Research and Development-APJ Abdul Kalam Technological University	Govt. Agency (State)	200000
Funding Agency	Kerala State Council for Science, Technology and Environment (KSCSTE)	Govt. Agency (State)	20000
Institute's Own Fund / Resource	Sree Buddha College of Engineering, Pattoor	Educational Institute	0

2	Sree Buddha incubatio n Space	Innov ation Centr e	2018	Co- workin g Space ,Work Statio ns	Incubati on Unit	Incub ation Unit	Fac ility Inc har ge Em ail in  Fac ility Inc har ge Em ail in  Fac ility Inc har ge Em ail in	6	Yes	No	Yes	Approved								
			5	Source of	Grant / Fund	d			Age	ency Name			Ager	псу Туре		Total ( Incubati ex	Grants / Fu ion & Incul xists in Ca	unds Rece bation Cen mpus (In F	ived by Pre tre / Facilit Rupees)	e- ies
	Institute's	Own Fund	/ Resoure	ce				SREE BUDE	DHA COLLEGE	OF ENGINEERIN	NG I	Educational	Institute		С	)				
3	Centre for Innovatio n and Research - CE (CIR-CE)	Innov ation Centr e	2020	Co- workin g Space	No Such Facilities Exist in	No Such Faciliti es Exist	Fac . ility R. Inc G	0	No	No	Yes	Appro ved								

				Source of	Grant / Fun	d				Age	ency Name			Ageı	псу Туре	T Inc	otal Gran cubation & exists	nts / Fund & Incubati s in Campo	ls Receive ion Centre us (In Ru	ed by Pre e / Faciliti pees)	- es
	Funding A	Agency							CERD				Govt. Agen	cy (State)		20000	00				
	Funding A	Agency							KSCSTE				Govt. Agen	cy (State)		45000	)				
	Institute's	Own Fund	d / Resou	rce					Sree Buddha	a Educational So	ociety		Educationa	I Institute		0					
4	INNOVA TION AND ENTREP RENEUR SHIP DEVELP OMENT CENTRE	IEDC	2015	Co- workin g Space	Student Clubs	Stude nt Clubs	Fac ility Inc har ge	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Yes	No	No	Approved								

#### Section 3 > ii > b : List the Centre of Excellence (CoE) Facilities with Advance Tools and Equipment at the HEI (>= 1000 Sq. Ft. Floor Area)

No Data Flled!

#### Section 3 > ii > c : List the Incubation Facilities at the HEI (>= 1500 Sq. Ft. Floor Area)

No Data Flled!

#### Section 3 > ii > d : List the Innovation Park/Research Park Facilities at the HEI (>= 5000 Sq. Ft. Floor Area)

No Data Filed!

# Section 3 > ii > e : List the IPR Cell/Technology Transfer Centre Facilities at the HEI

Srn o	Name of IPR Cell/Techno logy Transfer	Year of Establis hment	IPR Cell/Tec hnology Transfer Centre	Name of the Funding Scheme s	Facility Details	Total Nos of Dedicat ed Executi	Had the IPR Cell/Technology Transfer Centre Provided any Funding	Had institute Generated Income either from Services Offered by IPR	Had the IPR Cell/Technology Transfer Centre Provided any Funding	Status Phase-1	Reason Phase-1	Comme nt Phase-1	Docume nt Phase-1	Remark s Phase-1	Status Phase-2	Reason Phase-2	Comme nt Phase-2	Docume nt Phase-2	Remark s Phase-2
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### Section 3 > ii > e : List the IPR Cell/Technology Transfer Centre Facilities at the HEI

	Centre Facility	t	with Access to Other I&E Facilitie s at the HEI	Availabl e with IPR Cell/Tec hnology Transfer Centre, if any (Option al)		ve/Man agemen t team Strengt h Engage d at the Facility	Support for Idea/Prototype/I nnovation Development and implementation during the Financial Year 2019-20?	Cell/Technology Transfer Centre?	Support for Idea/Prototype/I nnovation/Start up/Venture Development and implementation during the Financial Year 2019-20?						
1	IPR and Patent Facilitation Centre	F	Innovati on Park/Re search Park	BioCAR e Scheme Depart ment of Biotech nology	Palitynchargenane Palitynchargenan Palitynchargenane Palitynchargenan Pali	01	No	No	No	Approve d					

# Section 3 > iii > a : Provide detail list of Faculties as Mentor to help Ideas/Innovations/Startups

Sr n o	Name of the Faculty	Designation of the Faculty	Mentor Expert Area	Years of Experience in Mentorship (In Years)	Status Phase-1	Reason Phase-1	Comment Phase-1	Document Phase-1	Remarks Phase-1	Status Phase-2	Reason Phase-2	Comment Phase-2	Document Phase-2	Remarks Phase-2
1	Mr. Alex V	Assistant Professor	Idea/Innovation Development	3	Approved									

### Section 3 > iii > a : Provide detail list of Faculties as Mentor to help Ideas/Innovations/Startups

		Name	e of Idea/Innovation/ Startup Mentore	d			Mentoring S	etup [Within (or)	Outside] HEI		CIN (in case	e it is Startup)	
	Solar water pump					Within							
	Onboard electric v	ehicle charging s	tation			Within							
	Solar based DAES	3				Within							
	IGBT based DC m	otor control				Within							
	Phase control of u	niversal motor us	sing SCR			Within							
	Solar based induct	tion cooking syste	em		Within								
2	Mr. Venugopal N	Assistant Professor	Idea/Innovation Development	3	Approved								
		Name	e of Idea/Innovation/ Startup Mentore	d			Mentoring S	etup [Within (or)	Outside] HEI		CIN (in case	e it is Startup)	
	Child bore well res	cue system	·			Within		_		_			

### Section 3 > iii > b : Provide detail list of External Experts/Agencies engaged as Mentor to help Ideas/Innovations/Startups

Srno	Name of the External Expert/Agency as Mentor	Mentor Expert Area	Type of Mentorship	Status Phase- 1	Reason Phase-1	Comment Phase-1	Document Phase-1	Remarks Phase-1	Status Phase- 2	Reason Phase-2	Comment Phase-2	Document Phase-2	Remarks Phase-2
1	Mr. Suresh Kumar T O	Idea/Innovation Development	Unstructured Mentorship	Approved									
2	Mr. Anish S Nair	Idea/Innovation Development	Unstructured Mentorship	Approved									
3	Mr. Premkumar S	Idea/Innovation Development	Unstructured Mentorship	Approved									
4	Mr. Santhosh Warriam Ayani	Idea/Innovation Development	Unstructured Mentorship	Approved									
5	Mr. Jerin J Mathew	Idea/Innovation Development	Unstructured Mentorship	Approved									
6	Dr. Sreejith Mohan	Idea/Innovation Development	Unstructured Mentorship	Approved									
7	Dr. L Godson Asirvatham	Idea/Innovation Development	Unstructured Mentorship	Approved									
8	Ms. Ardra Chandra Mouli	Idea/Innovation Development	Unstructured Mentorship	Approved									
9	Mr. Giby Varghese Jaison	Idea/Innovation Development	Unstructured Mentorship	Approved									
10	Mr. Mohammed Aseem	Idea/Innovation Development	Unstructured Mentorship	Approved									
11	Ms. Bindu Sunil	Idea/Innovation Development	Unstructured Mentorship	Approved									

#### Section 3 > iii > b : Provide detail list of External Experts/Agencies engaged as Mentor to help Ideas/Innovations/Startups

12	Dr. Anil Joseph	Idea/Innovation Development	Unstructured Mentorship	Approved					
13	Mr. Sajil Satheek	Idea/Innovation Development	Unstructured Mentorship	Approved					
14	Mr. Amal Prakash	Idea/Innovation Development	Unstructured Mentorship	Approved					

Section 4 : List all the Innovations Generated Developed, Completed and Implemented in Ground with Support of Pre-incubation & Incubation facilities at the HEI and Recognitions Received

SEO	Name of the Innovation Generated with the Support of HEI	Type of Innovati on	Natu re of Inno vatio n	Nam e ofe HEI Supt ed Inno vatio n Dev elop men t	In no vat ion De vel by	Stage of In no at ion	St ag e of In no vat ion /St ag e of TR L re ac he d as on 31 st M ar ch 20	Stat us Pre- Incu batio on/Inc ubati on Sup port to Inno vatio n as on 31st Mar ch 202 0	Had the Innovation Received any Recognition at State, National, Internation nat Level Programs during the financial period 2019-20	Had the Inno vatio n Con vert ed into Vent ure/ Start up/S ME Unit duri ng the finan cial peri od 20109-20	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2019- 20	Had the Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or HEI during the financial period 2019-20	Had the Pre- incubation/Incubation Centre/HEI received any income/revenue from Idea/Prototype/Innovati ons for the pre- incubation/incubation support and the services offered by Pre- incubation/incubation or institute during the financial period 2019	Stat us Pha se-1	Rea son Pha se-1	Com men t Pha se-1	Doc ume nt Pha se-1	Rem arks Pha se-1	Stat us Pha se-2	Rea son Pha se-2	Com men t Pha se-2	Doc ume nt Pha se-2	Re ari Pr se
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IBF-vehicle: Intelligent balancing Vehicle Frame	Product Innovati on	Tec hnol ogic al	Cent er for Inno vatio n and Res earc h- ME (CIR -ME)	Fa cul ty	TR L : Appli ed re se ar ch. Fir st lab or at or y tes ts co m ple te d; proof f of co nc ep t.	TR L : S m all sc ale pr ot oty pe built in a lab or at or y en t ("gly" prot oty pe).	Inno vatio n Dev elop men t Ong oing	No	No	No	No	No	0	Approved						
		Name							Туре		(	Sender			Email			(	Contact	
Dr. M S Senthi	l Saravanar	)					Facult	у			Male		bhatranitt@gmail.co	m			99402	36395		
		Name							Туре		(	Gender		E	Email			(	Contact	
Dr. J B Sajin							Facult	y			Male		mechanicalsajin@gi	mail.com	1		82487	17243		

Jackfruit dressing machine	Product Innovati on	Tec hnod ogic al	Cent er for Inno vatio n and Res earc h- ME (CIR)	St ud en t- Fa cul ty	TR . : A pie de e se arch. Fir stab or at or y tests on me te d; proof of occident.	R a la c le p t d y e la a la c ta c y e la c le t ("の" pt d y e).	Inno vatio n Dev elop men t Ong oing	No	No	No	No	No		Approved						
		Name							Туре		Gen	der		E	Email			(	Contact	
Mr. Vaisakh F	S						Facult	/			Male		vaisakh.vps@gmail.	.com			79079	18600		
		Name							Туре		Gene	der		E	Email			(	Contact	
Dr. J B Sajin							Facult	/			Male		mechanicalsajin@g	mail com	1		82487	17243		

5		4
GoKART	Mr. Vaisakh P	Coconut tree climbing machine
Product Innovati on		Product Innovati on
Tec hnol ogic al	Name	Tec hnol ogic al
Cent er for Inno vatio n and Res earc h- ME (CIR -ME)		Cent er for Inno vatio n and Res earc h- ME (CIR -ME)
St ud en t- Fa cul ty		St ud en t-Fa cul ty
TR L :: A pied ere se arch. Fir stab or at or y tests completed; proof of concept.		TR 1: A pied rese archir stalor at or y tests completed; proof of concept.
TR L 4: S m alle sc ale prot otype built in a lab or at or y en vir on m en t ("u (gly " rot otype).		TR L 4: S m all scale prototy pe built in a lab or at or y en t ("u g!y prototy pe).
Inno vatio n Dev elop men t Ong oing	Facult	Inno vatio n Dev elop men t Ong oing
No	<b>y</b>	No
No	Туре	No
Grant Amount in Rs		No
100000	Mal	
No	Gender	No
No		No
	vaisakh.vps@gmail.c	
Approved		Approved
	mail	
	79079	
	918600	
	Contact	

		Name							Ту	ре				Gender		E	Email			C	ontact	
	Dr. M S Senthil Sarava	anan					Facult	у				M	lale			bhatranitt@gmail.com			99402	36395		
6	Quad Bike Produ	ati hnol ogic al	Cent er for Inno vatio n and Res earc h- ME (CIR -ME)	St ud en t- Fa cul ty	TR 3: Apij ed re se ar ch. Fr st lab or at or y tes ts comple te d; proof of concept.	TR 4: S m all sc ale protype built in a lab or at or y en viron m en t ("uly protype).	Inno vatio n Dev elop men t Ong oing	No	No		Grant Amount in Rs	50000	No		No	Approved						
		Name							Ту	ре				Gender		E	Email			C	ontact	
	Mr. Sreekumar E N						Facult	у				M	lale			sreekumar.rit@gmail.com			94477	81269		

Name Type Gender Email Contact
--------------------------------

			9
Mr. Kalesh K K	Synthesis of bioplastics with enhanced thermal, mechanical and barrier properties	Mr. Ratheesh F	Break pad using orange fibre and Al2O3
(	Product Innovati on	R	Product Innovati on
	Tec hnol ogic al	Name	Tec hnol ogic al
	Cent er for Inno vatio n and Res earc h- ME (CIR -ME)		Cent er for Inno vatio n and Res earc h- ME (CIR -ME)
	St ud en t-Fa cul ty		St ud en t-Fa cul ty
	TR L 2: Tech nology for mula tion. Concept and dapplit cattion has veen for mula ted.		TR L 2: Tee ch nol og y for m ula tio n. Co nc ep t an d ap pli cat ion ha ve be en for m ula te d.
	TR L 3: Applied research. First lab or at or y tests complete d; proof of concept.		TR L 3: A pii ed re se ar chir st lab or at or y tes ts com le te d; proof of concept.
Facult	Inno vatio n Dev elop men t Ong oing	Facult	Inno vatio n Dev elop men t Ong oing
/	No	<i>y</i>	No
	No	Туре	No
	No		No
Mal		Mal	
	No	Gender e	No
	No		No
kalesh24@gmail.com	· ·	ratheeshsbce@gma	
	Approved		Approved
	imail	mail	
94961		94477	
13281		( '88628	
	Contact	Contact	

	1 2		1 1
Mr. Hari Krishr	Design and development of low fume welding electrodes	Dr. J B Sajin	Supercapacito r electrode from biomaterials
nan G	Product Innovati on		Product Innovati on
	Tec hnol ogic al	Name	Tec hnol ogic al
	Cent er for Inno vatio n and Res earc h- ME (CIR -ME)		Cent er for Inno vatio n and Res earc h- ME (CIR -ME)
	St ud en t- Fa cul ty		St ud en t- Fa cul ty
	TR L 2: e ch nolog y for m ula tio n. Co nc e t an d appli cation ha ve e e n m ula tio un. La nolog un. La nolog un un un un un un un un un un un un un		TR L 2: Tech nol og y for m ula tio n. Co nc ep t an d ap pli cat ion ha ve be en for m ula te d.
	TR L 3: Applied re se ar ch. Fir st lab or at or y tes ts co m ple te d; pr oo f of co nc ep t.		TR L 3: A piede re se ar chir st lab or at or y test to cm ple te d; proof of concept.
Facult	Inno vatio n Dev elop men t Ong oing	Facult	Inno vatio n Dev elop men t Ong oing
/	No	<i>y</i>	No
	No	Туре	No
	No		No
Mal		Mal	
	No	Gender le	No
	No		No
harikrishnangs24@g		mechanicalsajin@gi	
	Approved		Approved
	imail	mail	
94969		82487	
92393		( 17243	
	Contact	Contact	

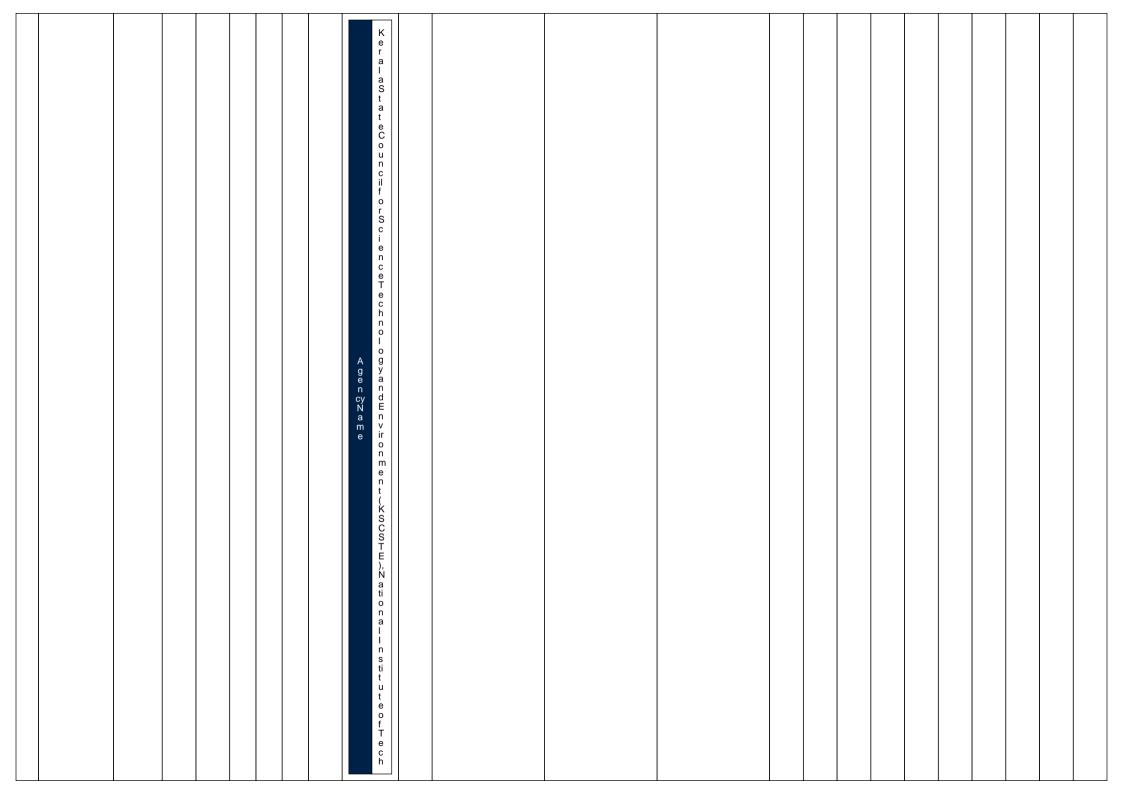
	1 1 1		1 3 1
Mr. Jinan S	Mr. Jinan S  Turning wheels through 90 degree in parallel parking	Mr. Jinan S	Child bore well rescue system
	Product Innovati on		Product Innovati on
Name	Tec hnol ogic al	Name	Tec hnol ogic al
	Cent er for Inno vatio n and Res earc h- ME (CIR -ME)		Cent er for Inno vatio n and Res earc h- ME (CIR -ME)
	St ud en t-Fa cul ty		St ud en t- Fa cul ty
	TR L 2: Te ch nol og y for m ula tio n. Co nc ep t an d application ha ve en for m ula te d.		TR L : Te ch nol og y for m ula tio n. Co nc ep t an d ap pii cation ha ve be en for m ula te d.
	TR L :: Applied re se arch. First lab or at or y tests complete d; proof of concept.		TR L : Apid ed re se ar ch. Fir st lab or at or y test to complete d; proof of concept.
	Inno vatio n Dev elop men t Ong oing	Facult	Inno vatio n Dev elop men t Ong oing
<i>y</i>	No	<i>y</i>	No
Туре	No	Туре	No
	No		No
	Male	Male	
Gender	No	Gender	No
	jinan6@gm	jinan6@gm	No
		nail.com	
E	Approved	E	Approved
mail		mail	
	90371	90371	
(	07413		
Contact		Contact	

1 5	Thermite nest reinforced composites	Product Innovati on	Tec hnol ogic al	Cent er for Inno vatio n and Ress earc h- ME (CIR -ME)	St ud en t-Fa cul ty	TR L: Te ch nol og y for m ula tio n. Co ep t and d apli cat ion ha ve be en for m ula te d.	TR L :: App plid re se ar ch. First lab or y tess ts co m ple te d; pr oo f of co nce pe t.	Inno vatio n Dev elop men t Ong oing	No	No	No		No	No	Approved					
	Dr. J B Sajin		Name					Facult	<i>y</i>	Туре		Male	Gender	mechanicalsajin@		Email n		82487	Contact	
1 6	Smart Helmet	Product Innovati on	Tec hnol ogic al	IED C	St ud	TR L 0: Id ea	TR L	Inno vatio	No	No	10	0000	No	No	Appr					
			aſ		St ud en t- Fa cul ty	ld ea . Un pr ov en co ncep t, no tes tin g ha s be en pe rfor m ed .	L 2: Te ch nol og y for m ula tio n. Co nc ep t and application has vee en for m ula te d.	n Dev elop men t Ong oing			Grant Amount in Rs									
	Raj Suresh Ge		Name		t- Fa cul ty	Un pr ov en co nc ep t, no tes tin gha s be en	ogly for mula tio n. Co nc ep t an d applicat ion ha ve be en for mula te	Dev elop men t Ong		Туре	Grant Amount in Rs	Male	Gender	rajsuresh1999@gr		Email		96054(	Contact	

Name Alex V								Туре				Gender				Email						Contact			
Alex V							Facult	ty				Male	е		alexvincent.s@gmail	.com					82813	345157			
SANITARY WASTE DISPOSAL SYSTEM	Product Innovati on	Tec hnol ogic al	IED C	St ud en t-Fa cul ty	TR L 0: Id ea. Un prov en conc ep t, no test tin g ha s be en perform ed .	TR L 4: S m all sc e prototype built in a lab or at or y en iron m en t ("uly" prototype).	Inno vatio n Dev elop men t Com plete d	No		No	No		No	No		Approved									
		Name								Туре			Gender			E	Email						Contact		
ATHIRA B							Facult	ty				Fem	nale		athiraasok1990@gm	ail.com					99953	345232			

		٩
		NANO CHEMICAL STABILIZATI ON OF EXPANSIVE KUTTANAD CLAYS
		Service Innovati on
		Tec hnol ogic al
		Lab
		Fa cul ty
	Un pr ov en cco nc tes tin g ha s be en pe rfo rm ed .	TR L 0: Id ea Un pr ov en
	Principle s po stuted and obe srved but no exprimental proof avail able.	1: Ba sic re se ar ch. Pri
		Inno vatio n Dev elop men t Ong oing
seed money	ame  Agency(State)  Researchs  Award/Postio	CERDKTU ,K
		No
	Grant Amount in Rs	
		200000
		No
		No
		Appr oved

1 9	STUDY ON STRENGTH, DURABILITY AND MICROSTRU CTURAL CHARACTERI STICS OF CONCRETE WITH PUMICE POWDER POZZOLAN AND POLYPROPY LENE FIBRE AS ADDITIVES	Process Innovati on	Tec hnol ogic al	LAB	St ud en t-Fa cul ty	TR L 0: Id ea. Un proven concept, no testin ghas be en performed.	TR 3: Appled research. First lab or at or y tests completed; proof of concept.	Inno vatio n Dev elop men t Com plete d	No	Grant Amount in Rs	15000	No	Ne	No	Approved					
						ha s be en per fro rm ed .	ts co m ple te d; pr oo f of co nc ep t.			Amount in Rs										



nologyCaiicut GovtAgency(State)		
A gencyType		

|--|

Name	Туре	Gender	Email	Contact
ANSU J LALU	Student	Female	ansu.j.lalu@gmail.com	8848504486

Ms		0 AL INVE ON 0 STR AND DUR PRO OF MREA
ls. Shobha Eli		/ESTIGATI I ON RENGTH D IRABILITY OPERTIES MODIFIED ACTIVE WOER WORETE TH NANO
zabeth Tho		Service Innovati on
mas	Name	Tec hnol ogic al
		LAB
		St ud en t-Fa cul ty
		RL : asic re sar ch. ricides post lated and obsered but nex per mentaprofavial abe.
		TR : Apied rese archir st lab or at or y test ts complete d; proof of concept.
Faculty		Inno vatio n Dev elop men t Com plete d
		A gen CYZame  A gen CYZame
	Туре	No
		Grant Amount in Rs
F		15000
emale		No
	Gender	
ce.sh		No
obhaet@sbce		
mail.in	Е	Approved
	mail	
95624		
47155	C	
	ontact	

Gender

Female

Email

vrindhav.vinod@gmail.com

Contact

8075347116

Туре

Student

Name

Vrinda V.

2 3				2 2
loT based real time flood prediction and monitoring system	Rintu Ann Che	Vishnu V S		Voice Controlled Robotic arm for differently abled people
Product Innovati on	erian			Product Innovati on
Tec hnol ogic al	Name	Name		Tec hnol ogic al
Cent er for Inno vatio n and Res earc h at ECE (CIR -EC)				Cent er for Inno vatio n and Res earc h at ECE (CIR -EC)
St ud en t-Fa cul ty				St ud en t- Fa cul ty
TR L : Id ea . Un pr ov en concept, no test tin ghas be en per from ed .				TR L : Id ea . Un pr ov e co nc e et, no stein g ha s be en pe rfo med
TR L :: Appled research. First lab or at or y ests completed; proof of concept.			nc ep t.	TR L : Api ed rese arch.Fir stab or at or y test ts complete d; proof of oco
Inno vatio n Dev elop men t Com plete d	Stude	Facult		Inno vatio n Dev elop men t Com plete d
No	nt	у		No
No	Туре	Туре		No
No				No
	Fer	Mal		
No	Gender	Gender le		No
No	cherianrintu@gmai	vishnu.vs.kkd@gm		No
Approved				Approved
	mail	mail		
	8848	9947		
	542565	062806		
	Contact	Contact		

	Name									Туре			Gender			E	Email			(	Contact	
	Jasmin Bashe	er						Facult	у			Fem	nale		jasminbasheer@gm	ail.com			94477	787407		
2 4	Performance enhancement of solar electric tripad using IoT	Product Innovati on	Tec hnol ogic al	Cent er for Inno vatio n and Res earc (CE (CEC)	Fa cul ty	TR L 0: Id ea . Un pr ov en co nc ep t, no tes tin g ha s be en pe rfo rm ed .	TR L 3: Applied re se arch. First lab or at or y tests completed; proof of oconce et.	Inno vatio n Dev elop men t Com plete d	No	No	No		No	No		Approved						
	A		Name					- I		Туре		M	Gender				Email		00046		Contact	
25	Design and Implementatio n of a Novel Flying Sailing Drone for sureveillance	Product Innovati on	Tec hnol ogic al	Cent er for Inno vatio n and Ress earc h at ECE (CIR -EC)	St ud en t-Fa cul ty	TR L 0: Id ea . Un pr ov en co nc ep t, no tes tin g ha s be en pe fro rm ed .	TR L 3:: App pli ded re se ar ch. First lab or y tes ts co m ple te d; pr oo f of co nc ep t.	Inno vatio n Dev elop men t Com plete d	No	No	No	Male	No	No	alexvincent.s@gmai	Approved			82813	345157		

			Name							Туре			Gender			E	Email				Contact	
	Ambika Sekha	r						Facult	у			Fem	nale		ambikasekharmtv@	gmail.co	m		94462	204252		
			Name							Туре			Gender			E	Email				Contact	
	VINEETH KUN	MAR V						Stude	nt			Male	9		vinu373.vk@gmail.c	om			95449	947989		
2 6	Development of smart spectacles for visually impaired people.	Product Innovati on	Tec hnol ogic al	Cent er for Inno vatio n and Res earc h at ECE (CIR -EC)	Fa cul ty	TR L 0: Id ea	TR 1 3 : Apli ed re se ar ch. Fir st lab or at or y test to complete d; proof of concept.	Inno vatio n Dev elop men t Com plete d	No	No	No		No	No		Approved						
			Name							Туре			Gender			_ <u>E</u>	mail				Contact	
	Jayaraj V S							Facult	у			Male	9		jayarajvs2050@gma	ail.com			99460	005469		

2 8		2 7
Justy John  Low cost IoT based Cooking Gas Assistive System		Energy efficient Batter Management System for all terrain electric board
Product Innovati on		Product Innovati on
Tec hnol ogic al	Name	Tec hnol ogic al
Cent er for Inno vatio n and Res earc h at ECE (CIR -EC)		Cent er for Inno vatio n and Res earc (CIR -EC)
St ud en t		St ud en t
TR : dea . Uprovercoccet, rossing has be en performed .		TRLOID a. Uprove concet, nothing has be experienced.
TR L 4: S m all scale prototype bit in a lab or at or y evir on m en t ("uly" prototype).		TR L 3 ppid er ese arch. First laboratory tests completed; proof of concept.
Inno vatio n Dev elop men t Com plete d		Inno vatio n Dev elop men t Ong oing
No		No
No	Туре	No
No		No
Mal		
No No	Gender	No
johnjusty6@gmail.c		No
Approved	E	Approved
	mail	
807514		
47481	С	
	ontact	

							Туре			Gender			ſ	Email				Contact				
	Justy John		Name					Stude	nt	.,,,,		Male			johnjusty6@gmail.co				8075	147481		
2 9	Implementatio n of In-pipe robot for borewell rescue applications	Product Innovati on	Tec hnol ogic al	Cent er for Inno vatio n and Res earc h at ECE (CIR -EC)	St ud en t- Fa cul ty	en co nc ep t, no tes tin g ha s be en pe rfo	TR 13 Appled research. First lab or at or yes ts completed; proof of concept.	Inno vatio n Dev elop men t Ong oing	No	No	No		No	No		Approved						
	Name								Туре			Gender			E	Email				Contact		
	Sabi S						Facult	у			Male	9		haisabi@gmail.com				98462	206432			
			Name							Туре			Gender			E	Email				Contact	
	Sivaprasad							Stude	nt			Male	9		sivasbce1998@gma	ail.com			89210	58375		

3 Microbial 0 Concoction for Quantum Dot biosynthesis	Process Innovati on	Tec hnol ogic al	Biot echn olog y	St ud en t- Fa cul ty	TR L 1: Ba sic re se ar ch. Pri nci ple s	TR L 3: Ap pli ed re se ar ch. Fir st lab	Inno vatio n Dev elop men t Ong oing	Agen	D e p a rt m e n t o f B	No		100000	No	No	Approved						
					po stu lat ed an d ob se rv ed bu t no ex	or at or y tes ts co m ple te d; pr oo f		gencyName	of Biotechnology G												
					pe ri m en tal pr oo f av ail abl e.	of co nc ep t.			ovt.Agency(Centra		Grant Amount in Rs										
									al) BioCAReResearchFund												
								R e co griti o no e cute d	r c h F u n d												
		Name								Туре			Gender			Email				Contact	
Dr. Jaya					Faculty	,				Fer	emale	JACOB.JAYA@				95625	562754				

Section 5 : List all the Ventures/Startups/SME Units Established with Support of Pre-incubation & Incubation facilities at the HEI

$\mathcal{O}$ $\vdash$ $\vdash$ $\circ$	Name of the Venture /Startup /SME Unit Establis hed with the Support of HEI	Type of Innovati on of Venture /Startup /SME Unit	Nat ure of Inno vati on	Na me of the Pre-Incu bati on/I ncu bati on Unit Sup port elop men t	Venture Forsed by	Venture Registerd	Yer of R egs ist rat io n	What is the current status of Pre-Incubatio n/Incubat ion Support to Venture/Startup/SME Unit as on 31st March 2020?	Had the Venture Received any Recognition at State, National, International Level Programs during the financial period 2019-20?	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Venture establishment during the financial period 2019-20	Had the venture/startup raised any Seed fund/Angel Investment/VC during the period of receiving pre- incubation/incubation support at your Pre- incubation/incubation or HEI during the financial period 2019- 20	Had the Pre- incution of the P	Has the starp of motor of the starp of the s	Stat us Pha se-1	Rea son Pha se-1	Co mm ent Pha se-1	Doc ume nt Pha se-1	Re mar ks Pha se-1	Stat us Pha se-2	Rea son Pha se-2	Co mm ent Pha se-2	Doc ume nt Pha se-2	Re mar ks Pha se-2
1	Crypt4b its Pvt Ltd	Service Innovati on	Tec hnol ogic al	374	St ud en t	Venture with Corporat e ldentific ation Number (CIN) Registra tion	20 19 - 20	Graduate d from the Incubatio n unit	No	No	No	No	Yes	App rove d									

Name	DIN number	Туре	Gender	Email	Contact
Bilal Bin Nazar	08531590	Student	Male	bilal@crypt4bits.com	9847505594

Section 7 > i : List all the Collaborations with External Agencies and Co-Creation of I&E Activities by the HEI

Section		all tile Collabo	rations with External	Agencies	and Co	J-Ci eati		ACTIVITIES	by lile n							
Srno	Collaborated Agency Name	Collaborated Agency Type	Purpose of Collaboration	Type of Support Offered	No. of Student Project s/ Ideas / Innovati on / Startup s from the HEI get benefitt ed through this partner ship	Date of MOU / Agreem ent Signed on	Status Phase-1	Reason Phase-1	Comment Phase-1	Document Phase-1	Remarks Phase-1	Status Phase-2	Reason Phase-2	Comment Phase-2	Document Phase-2	Remarks Phase-2
1	M/S Sarathy Auto Cars, Kollam	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	1	25-10-2 019	Approved									
2	Noorul Islam Centre For Higher Education, Kanyakumari	Educational Institute	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	1	01-06-2 019	Approved									
3	Logix Space Technologies	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	4	03-10-2 019	Approved									
4	Zeropi Technologies Pvt Ltd	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	5	14-10-2 019	Approved									
5	Crypt4bits Pvt Limited	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring, Networkin g	3	04-10-2 019	Approved									
6	ATHUL ENERGY CONSULTANTS PVT. LTD THRISSUR	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	0	18-09-2 019	Approved									
7	Ayner Engineers and MEP Consultants, Cochin	Non-Govt. Agencies	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	0	19-09-2 019	Approved									

# Section 8 > ii : List the IPs Filed/Published/Granted (Copyright & Designs Only) by the HEI as an Applicant / Co-applicant / Co-owner

Section 8 > iii : List the IP (Patents only) Filed by the HEI as Applicant / Co-applicant / Co-owner

Srno	Title/Name of Patent	IP Registration Number	Date of Filed/Published (Year, Month)	Application Level	Copy of receipt / application screenshot [PDF or Image]	Status Phase-1	Reason Phase-1	Comment Phase-1	Document Phase-1	Remarks Phase-1	Status Phase-2	Reason Phase-2	Comment Phase-2	Document Phase-2	Remarks Phase-2
1	IBF-VEHICLE: INTELLIGENT- BALANCING VEHICLE FRAME	202011006274A	National	2020 - 02	Uploaded	Approved									

### Section 8 > v : List the IPs hold by the Innovation teams/Startups Incubated at the Pre-incubation/incubation Unit of the HEI

No Data Flled!

#### Section 8 > vi : List the IP Commercialized/Transferred Published & Granted to HEI as Co-applicant/Co-owner

No Data Flled!

## **Declaration**

To, The ARIIA Committee MHRD's Innovation Cell New Delhi

## Joint Declaration by the Head of the Institute and Nodal Officer

#### Dear Sir,

Herewith, myself Dr. Saji Varghese (Head of Institute) and Dr. Trijo Tharayil (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

Thank you

The Head of Institute

76 63 80R

Dr. Saji Varghese Head of the Institution, Alappuzha, Kerala Nodal officer

720/03/2031

Dr. Trijo Tharayil Nodal Officer, Alappuzha, Kerala

Responsibility for accuracy and authenticity of data lies with the concerned institution.