

IQAC



**ANNUAL REPORT
2020-21**



CONTENTS

SL. No	Particulars
01	Plan of Action
02	Result Analysis (UG & PG)
03	Journal Publications
04	Books/Chapter/Conferences
05	FDP/Workshop/ Training Programme etc., (Organized/Attended)
06	MOU's

Plan of action chalked out by the IQAC in the beginning of the Academic year and the outcome achieved by the end of the Academic year 2020-21

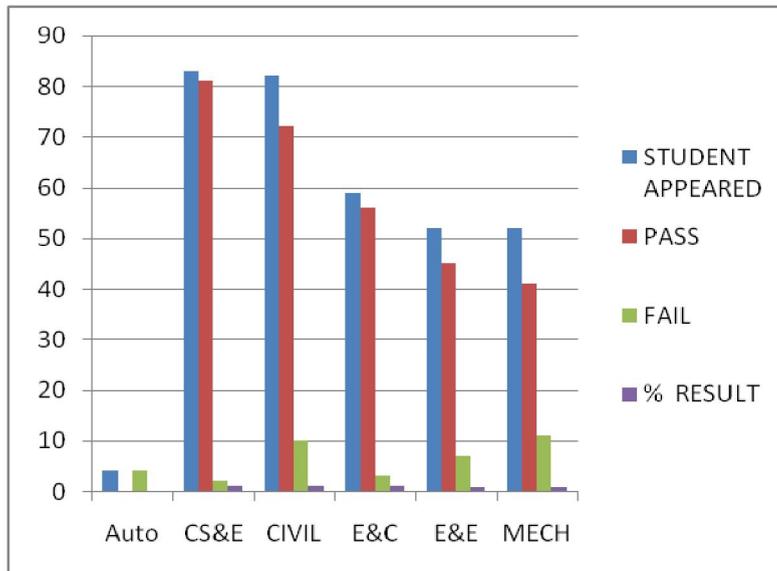
Plan of Action	Achievements/Outcomes
Co Curricular Activities	Webinars and quiz have been organized by Various have been organized by Various departments to improve the knowledge of faculty and students. 58 students have undergone Certification Program.
Industry Interaction	A) Industrial visits: Various departments have organized industrial visits in which 440 students were participated in the industrial visits. B) Internships and Industrial Trainings: 767 UG students have undergone Internship/Project work in various organizations. 12 PG students have taken up Internship / Field projects in various organizations. C) MOUs: 14 MOUs have been signed with industries during the year.
Capability enhancement and development schemes	Career Counselling: Online personal Counselling sessions have been conducted regularly. 50 placements have been made during the year. RemedialClasses for slow learners: Remedial classes have been conducted regularly for Students with less than 50 of IA marks in Online mode. 77 of faculty members are using ICT facilities. Faculty performance has been improved. 01 Faculty development Program has been organized mechanical engineering department.
Research Activities and publications	20 Research papers have been published. 06 Faculty Members are recognised as Research Guides.01 faculty member has obtained Doctoral degree. Civil, EEE and MECH departments are recognized as Research Centersby VTU Belagavi, Karnataka.
Extent of financial assistance to the faculty members	50 percent Concession is provided for medical treatment to employees of the Institute. 30 Faculty members were provided with financial assistance to attend International conferences/Workshops. Personal loans, Vehicle loans, Home loans are provided to the employees of the institution.
Extra Curricular and Cultural activities	Extension Activities: More than 700 students have participated in various extension activities. NSS unit and Youth Red cross is very functional and involving students in activities like Blood donation camps, Tree plantations, Pulse polio camps to local children etc., continuously.
Human and Ethical values	Activities have been conducted for promotion of Universal Values and Ethics.


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S J M INSTITUTE OF TECHNOLOGY(Recognized by AICTE, New Delhi and Affiliated to Visvesvaraya Technological University, Belagavi)
NH-4 Bypass, P.B.No:73, CHITRADURGA -577 502, Karnataka State**PERCENTAGE OF RESULTS FOR THE EXAMINATION - JULY 2021**

BRANCH	STUDENT APPEARED	PASS	FAIL	% RESULT
Auto	4	0	4	0%
CS&E	83	81	2	97.59%
CIVIL	82	72	10	87.80%
E&C	59	56	3	94.91%
E&E	52	45	7	86.53%
MECH	52	41	11	78.84%



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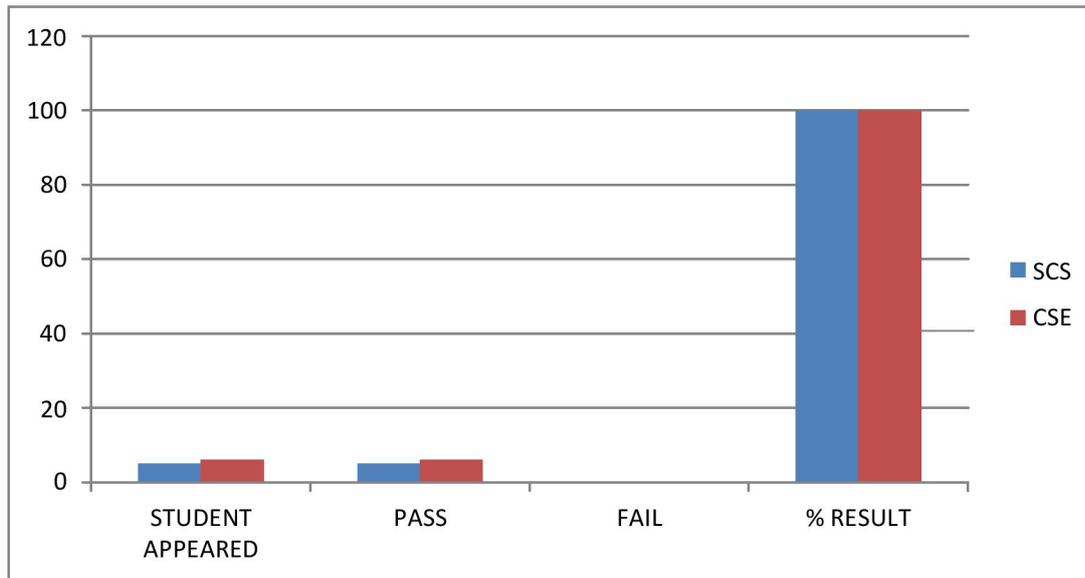
NAAC Accredited with B++ Grade

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



PERCENTAGE OF RESULTS FOR THE EXAMINATION –JUL-2021(PG)

BRANCH	STUDENT APPEARED	PASS	FAIL	% RESULT
SCS	5	5	0	100%
CSE	6	6	0	100%



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Research papers published per teacher in the Journals notified on UGC CARE list during the year2020-21

Title of paper	Name of the author/s	Department of the Teacher	Name of Journal	Calendar Year of publication
Study on durability properties of bacterial concrete	Dr. B.C. Shanthappa	Civil Engineering	GIS Science Journal	2021
A Compact metamaterial inspired triple band monopole antenna for wireless application	Mr. Chetan S	Electronics & Communication Engineering	Journal of Emerging technologies and innovative research (JETIR)	2021
Design and development of frequency reconfigurable microstrip planar monopole antenna	Mr. Chetan S	Electronics & Communication Engineering	Journal of Emerging technologies and innovative research (JETIR)	2021
Development of Sustainable Graphite Reinforced Polymer Thin Film by Stirrer Technique and Analysis of Mechanical Behaviour	Dr. H R Manohara	Mechanical Engineering	Journal of Green Engineering (JGE)	2021
Prediction of material removal rate and surface roughness in hot air assisted hybrid machining on soda-lime-silica glass using regression analysis and artificial neural network	Dr. Jagannatha N	Mechanical Engineering	Silicon, Springer, Switzerland	2020
Parametric optimization on hot air assisted hybrid machining of soda-lime glass using taguchi based grey relational analysis, multiscale and multi disciplinary modelling experiments and design	Dr. Jagannatha N	Mechanical Engineering	Springer nature switzerland AG	2020
Optimization of process parameters of fracture toughness using simulation technique considering aluminium-graphite composited	Dr. A M Rajesh	Mechanical Engineering	Transaction of the indian institute of metals - Springer	2020

Finite Element Analysis of Magnesium Metal Matrix Composites Disc Brake	Dr. Satish J	Mechanical Engineering	International Journal of Innovative Research in Technology	2020
Influence of Silicon carbide Alumina particles on compressive strength of Magnesium metal matrix composites	Dr. Satish J	Mechanical Engineering	International Journal of Innovative Research in Science, Engineering and Technology	2020
Influence of titanium carbide and activated carbon particles on the wear, mechanical properties and microstructure study of A413 metal matrix composite	Dr. H R Manohara	Mechanical Engineering	Indian Journal of Engineering & Materials Sciences	2020
Enhanced Sliding Mode Controller performance in DC-DC Buck Converter using a Tan hyperbolic Reaching Law and Constant Plus Proportional Reaching Law	Dr.Siddesh K B	Electronics & Communication Engineering	Journal of Bulletin of Electrict engineering and Informatics	2020
A least square study on flow and radiative heat transfer of a hybrid nanofluid in a moving frame by considering a spherically-shaped particle	K. Ganesh Kumar	Mathematics	Revista mexicana de física	2020
Effects of chemical reaction and activation energy on a Carreau nanoliquid past a permeable surface under zero mass flux conditions	K. Ganesh Kumar	Mathematics	JOURNAL OF NANOMATERIALS NANOENGINEERING AND NANOSYSTEMS	2020
Cattaneo–Christov heat diffusion phenomenon in Reiner–Philippoff fluid through a transverse magnetic field	K. Ganesh Kumar	Mathematics	Physica A: Statistical Mechanics and its Applications	2020
Quadratic convective heat transport of Casson nanoliquid over a contract cylinder: An unsteady case	K. Ganesh Kumar	Mathematics	BioNanoScience	2020
An analysis of dusty slip flow through a single-/multi-wall carbon nanotube	K. Ganesh Kumar	Mathematics	Continuum Mechanics and Thermodynamics	2020

Cattaneo–Christov heat flux model on Blasius–Rayleigh–Stokes flow through a transitive magnetic field and Joule heating Cattaneo–Christov heat flux model on Blasius–Rayleigh–Stokes flow through a transitive magnetic field and Joule heating	K. Ganesh Kumar	Mathematics	Physica A: Statistical Mechanics and its Applications	2020
Convective heat transport in a heat generating MHD vertical layer saturated by a non-Newtonian nanofluid: a bidirectional study	K. Ganesh Kumar	Mathematics	Multidiscipline Modeling in Materials and Structures	2020
A mathematical framework on Cattaneo–Christov model over an incessant moving needle	K. Ganesh Kumar	Mathematics	Multidiscipline Modeling in Materials and Structures	2020
Physical aspects of Darcy–Forchheimer flow and dissipative heat transfer of Reiner–Philippoff fluid	K. Ganesh Kumar	Mathematics	Journal of Thermal Analysis & Calorimetry	2020
Hybrid dusty fluid flow through a Cattaneo–Christov heat flux model	K. Ganesh Kumar	Mathematics	Physica A: Statistical Mechanics and its Applications	2020
Significance of Arrhenius activation energy in flow and heat transfer of tangent hyperbolic fluid with zero mass flux condition	K. Ganesh Kumar	Mathematics	Microsystem Technologies	2020
Study on parameters of bacterial induced concrete subjected to elevated temperature for air field rigid pavements	Dr. B.C. Shanthappa	Civil Engineering	GIS Science Journal	2020
Studies on Warping stress for bacterial induced concrete pavements	Dr. B.C. Shanthappa	Civil Engineering	GIS Science Journal	2020

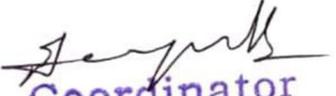

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Books and chapters in edited volumes/books published and papers published conference proceedings per teacher during year 2020-21

Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	Calendar Year of publication
Prof. Ramesh B E	Engineering Science and Computing	Cyber Attack Detection and notifying system using ML techniques	Cyber Attack Detection and notifying system using ML techniques	International Journal of Engineering Science and Computing	2021
Prof. Ramesh B E	An automated facemask and social distance evaluation system using AWS	ICEAASET -2021	Recent Advances In Science, Engineering And Technology	Engineering	2021
DR kumara swamy BG	Advances in Physical Sciences and Materials (ICAPSM 2021)	A Analytical Study of Wind Speed Distribution at Government First Grade College Premises in Hosadurga, India	ICAPSM2021	Advances in Physical Sciences and Materials (ICAPSM 2021)	2021
Dr. Kumara swamy B G	Recent Developments in Computer and Communication Technology (GC-RDCT 2021)	Selection of an Efficient Wind Turbine Generator at Government Science College Premises Chitradurga, India	GCRDCT	Recent Developments in Computer and Communication Technology (GC-RDCT 2021)	2021
Dr. Manjunath S C	Performance Comparison of IPFC-Based Controllers for toDampen Oscillations in the Power system	International Journal of Emerging Trends in Engineering Research	IJETER	Performance Comparison of IPFC- Based Controllers for toDampen Oscillations in the Power system	2021

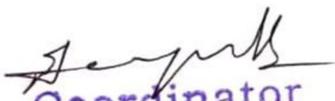
Dr. Kumara swamy B G	Advances in Physical Sciences and Materials (ICAPSM 2021)	A Analytical Study of Wind Speed Distribution at Government First Grade College Premises in Hosadurga, India	ICAPSM	Advances in Physical Sciences and Materials (ICAPSM 2021)	2021
Dr. Satish J	Advances in Materials Research (ICAMR - 2019)	Study of Wear Behaviour of Magnesium Hybrid Metal Matrix Composites Using Taguchi Method	AIP Conference Proceedings	Proceedings of International Conference on Advances in Materials Research (ICAMR - 2019)	2020
Dr. Gururaj T & Prof. Pavithra A.P	Open source software tools for bioinformatics	Statistical Modelling and Machine Learning Principles for Bio informatics, Techniques, Tools, and Applications, Algorithms for intelligent Systems(AIS)	A E T -21	Advances Engineering And Technology	2020


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Programs organized by the Institution during the year 2020- 21

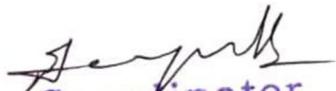
Name of the activity	Organising unit/ agency/ collaborating agency	Name of the scheme	Year of the activity
World Environment Plantation Program	Biofuel Research Information and Demonstration Centre (BRIDC)	Biofuel Research	2021
World Bio Fuel Day	S J M Institute of Technology & BRIDC	World Environmental Day	2020
Entrepreneurship Awareness Programme	S J M Institute of Technology	Research & development	2021
Intellectual Property Rights	S J M Institute of Technology	Research & development	2021
Entrepreneurship Awareness Programme	S J M Institute of Technology	Research & development	2021
Seminar on IPR	S J M Institute of Technology	Research & development	2020
Intellectual Property Rights	S J M Institute of Technology	Research & development	2020
Personality Development Program	S J M Institute of Technology	IQAC	2020


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MoUs for internship,/on-the-job training/ project work/student / faculty during year 2020-21

Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (nternship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
SJM Institute of Technology	PVC Agritech, Davanagere-577 005.	2021	Internship, Interaction with students	1 YEAR
SJM Institute of Technology	PVC Pumps Pvt. Ltd., Davanagere-577 005.	2021	Industrial visites, Interaction with students	2 YEAR
SJM Institute of Technology	Vinyas Associates, Chitradurga	2021	Technical Interaction	1 YEAR
SJM Institute of Technology	Mile stone Training Center, Chitradruga.	2021	Soft ware development and computer skills	2 YEAR
SJM institute of Technology	Abeyaantrix Soft lab OPC pvt ltd	2021	Skill Training	4 YEAR
SJM institute of Technology	SKILLDZIRE Technologies pvt Ltd	2020	Skill training,workshops,PDP	5 YEAR
SJM institute of Technology	Abeyaantrix Soft lab OPC pvt ltd	2020	Internship,PDP	4 YEAR
SJM Institute of Technology	Energia Technolab Bangalore	2021	Training and placement	1 YEAR
SJM Institute of Technology	Entuple Technology Bangalore	2021	Training and placement	2 YEAR
SJM Institute of Technology	Technologies Global Pvt Ltd, Bengalure.	2021	Training and placement,workshops	1 YEAR


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