BASAVESHWAR ENGG. COLLEGE

SELF ASSESSMENT REPORT(TIER - I) FOR Information Science & Engg.

Part A: Institutional Information

BASAVESHWAR ENGG. COLLEGE, S.NIJALINGAPPA VIDYANAGAR 2 Name and Address of Affiliating University VISVESVARAYA TECH. UNIVERSITY BELGAUM,KARNATAKA STATE	
VISVESVARAYA TECH. UNIVERSITY BELGAUM,KARNATAKA STATE	
3 Year of establishment of the Institution:1963/1994	
4 Type of the Institution:	
○ Institute of National Infortance	
University Any other(please specify)	
Deemed University	
5 Ownership Status:	
Central Government	
○ Central Government ✓ Trust ○ State Government □ Society	

6 Other Academic Institutions of the Trust/Society/Company etc., if any

Name of Institutions	Year of Establishment	Programs of Study	Location
Sanskrit Patha Shala	1906	School	Bagalkot
Akkanabalaga Pre-Primary	1963	School	Bagalkot
Basappanna Palled Pre-Prii	1985	School	Bagalkot
Sangameshwar Pre-Primar	1995	School	Kudal Sangam
Basaveshwar Pre-Primary ६	1997	School	Bagalkot
Basaveshwar Pre-Primary ६	1998	School	Ramdurga
Basaveshwar Pre-Primary \$	1999	School	Bagalkot
Basaveshwar Pre-Primary ६	1999	School	Mudhol
Basaveshwar Pre-Primary s	2002	Pre-Primary School	Basava Hanchinal
Sri Gurubasava Pre-Primar	2004	Pre-Primary School	Bilur
Basaveshwar Pre-Primary s	2006	Pre-Primary School	Anagwadi
Jyoti Pre-Primary school	1994	Pre-Primary School	Jambagi
Basappanna Palled Primary	1986	Primary School	Bagalkot
Sangameshwar Primary Sc	1995	Primary School	Kudal Sangam
Basaveshwar Primary scho	1997	Primary School	Bagalkot
Basaveshwar Primary scho	1998	Primary School	Ramdurga
Basaveshwar Primary scho	1999	Primary School	Bagalkot
Basaveshwar Primary scho	1999	Primary School	Mudhol
Basaveshwar Primary scho	2003	Primary School	Basava Hanchinal
Sri Gurubasava Primary scł	2005	Primary School	Bilur
Jyoti Primary school	1994	Primary School	Kasaba Jambagi
Basaveshwar High School	1917	High School	Bagallkot
R M G High School	1949	High School	Mudhol
State High School	1949	High School	Ramdurga
Sangameshwar High Schoc	1962	High School	Kudal Sangam
New Girls High School	1966	High School	Mudhol
New Girls High School	1966	High School	Ramdurga
Basaveshwar Girls High Sc	1972	High School	Bagallkot
Basappanna Palled High Sc	1996	High School	Bagallkot
Basaveshwar High School	2001	High School	Kasaba Jambagi

Sri Gourishankar High Schc	2002	High School	Kirsur
Basaveshwar High School	2002	High School	Baragi
M S S High School	2002	High School	Mullur
D C C High School	2002	High School	Mudenur
Basaveshwar Girls High Sc	2003	High School	Lokapur
B C Kalahal High School	2004	High School	Kakanur
Basaveshwar High School	2004	High School	Anagwadi
Kadasiddeshwar High Scho	2004	High School	Guledgudd
Gurumanteshwar High Scho	2006	High School	Kelur
Sri Murughendra High Schc	2006	High School	Jath
Basaveshwar English Mediı	2006	High School	Ramdurga
Basaveshwar English Mediı	2007	High School	Bagalkot
Basaveshwar International I	2001	High School	Bagalkot
Basaveshwar, Pre-Universit	1972	Degree	Bagalkot
R.M.G Pre-University Colleç	1972	Degree	Mudhol
State Pre-University College	1972	Degree	Ramdurga
Sangameshwar Pre-Univers	1991	Degree	Kudal Sangam
B.V.V.S Swatantra Arts and	2003	Degree	Bagalkot
Ramakrishna Paramahansa	2005	Degree	Salahalli
B.V.V.S. Women's Arts and	2006	Degree	Mudhol
Basaveshwar D.Ed. College	1942	Degree	Bagalkot
Basaveshwar School of Phy	1981	Education	Bagalkot
B.V.V.S., D.Ed College	2004	Degree	Mudhol
B.V.V.S., D.Ed College	2004	Degree	Ramdurga
Basaveshwar Arts College	1944	Degree	Bagalkot
B.V.V.S Research Centre (k	2010	PG	Bagalkot
Basaveshwar Science Colle	1967	PG	Bagalkot
MLTC Basaveshwar Scienc	1992	Hospital	Bagalkot
B.V.V.S., B.C.A	2000	Degree	Bagalkot
Basaveshwar Commerce C	1970	Degree	Bagalkot
P.G.Course	2001	PG	Bagalkot

PG Course (Kannada)	1999	PG	Bagalkot
PG Course (English)	2002	PG	Bagalkot
PG Course	2002	PG	Bagalkot
S.R.Kanthi Arts ,Commerce	1982	Degree	Bagalkot
Akkamahadevi Women's Ar	2000	Degree	Bagalkot
Basaveshwar College of Ph	1981	BPED	Bagalkot
P.G.Course(MPED)	2002	PG	Bagalkot
S.C.Nandimath Law College	1986	LLB & LLM	Bagalkot
P.G.Course(LLM)	2002	Law	Bagalkot
B.V.V.S College of Educatio	2004	Education	Bagalkot
B.V.V.S College of Educatio	2009	Education	Bagalkot
B.V.V.S Polytechnic(Autono	1958	Diploma	Bagalkot
Basaveshwar Engineering (1963	B.E, M.Tech & P.hD	Bagalkot
B.V.V.S Institute of Manage	1998	PG	Bagalkot
S.R. Vastrad Rural Polytech	1984	Diploma	Guledgudda
B.V.V.S Community Polytec	1986	Dip. In Engg	Bagalkot
S. R.Vastrad Community Pc	2002	Diploma	Guledgudda
B.V.V.S ITI	2003	ІТІ	Bagalkot
Amruta Institute of Engineel	2007	BE & MBA	Bangalore
Bilur Gurubasav Mahaswan	2013	BE	Mudhol
Hanagal Kumareshwar Sch	1980	MBBS	Bagalkot
P M Nadagouda Memorial [1987	DENTAL	Bagalkot
Hanagal Kumareshwar Coll	1992	MS	Bagalkot
Sajjalshree Diploma in Gen	1999	Nursing	Bagalkot
Kittur Rani Channamma Nu	2002	Nursing	Jamakhandi
B.V.V.S Ayurved Medical Co	1998	Ayurvedic	Bagalkot
Sajjalshree College of Nurs	1999	Nursing	Bagalkot
IGNO P.C.B.Sc. Nursing Co	2002	Degree	Bagalkot
S Nijalingappa Medical Coll	2002	MBBS	Bagalkot
B.V.V.S Nursing School	2004	Nursing	Mudhol
B.V.V.S Nursing School	2004	Nursing	Ramdurga

Dental Hospital and Resear	1988	BDS & MDS	Bagalkot
B.V.V.S Ayrvedic Hospital a	1998	BAMS	Bagalkot
Hanagal Kumareshwar Hos	2000	MBBS & MD,Ph.D	Bagalkot
B.V.V.S, Blood Bank	2002	-	Bagalkot
Basava Academy of Gener	1996	-	Bagalkot
B.V.V.S Akkanabalaga	1938	Social Service	Bagalkot
Karnataka State Open Univ	1997	Degree	Bagalkot
Indira Gandhi National Ope	2000	Degree	Bagalkot
Basava Human Resource C	1998	Training	Bagalkot
Science and Technology En	1998	S.T.E.P	Bagalkot
B.V.V.S Consultancy	1998	-	Bagalkot
Rural Development Founda	1999	Social Service	Bagalkot
B.V.V.S ING Vysya Bank Rl	2003	Training	Bagalkot
B.V.V.S Production and Trai	2001	Training	Bagalkot
B.V.V.S Driving School, Bag	1999		Bagalkot
B.V.V.S Driving School, Bag	2000		Bagalkot
Akkamahadevi Tailoring ins	2002	Self Empl	Bagalkot
Akkanagamma Tailoring ins	2002	Self Empl	Bagalkot
Gangambike Tailoring institt	2004	Self Empl	Mudhol
Nilambike Tailoring institute	2004	Self Empl	Kudal Sangam
Basavaling Offset printers	1920	Printing Press	Bagalkot
Vairagyada Mallanaraya Pra	2002	Printing Press	Bagalkot
Bagalkot City Sports Club	1924	-	Bagalkot
Working Women's Hostel	1996	-	Bagalkot
Jana Shikshan Centre	2004	-	Bagalkot
Sri Warad Mallappa Free Bo	1911	Hostel	Bagalkot
B. V. Bhumaraddi Hostel	1942	Hostel	Bagalkot
Jagadguru Jayadev Hostel	1951	Hostel	Bagalkot
Polytechnic Hostel	1962	Hostel	Bagalkot
B.E College Vishweshwarai	1968	Hostel	Bagalkot
B.E College Netaji Subhash	1968	Hostel	Bagalkot

B.V.V.S Girls Hostel No.1	1978	Hostel	Bagalkot
B.V.V.S Girls Hostel No.2	2007	Hostel	Bagalkot
Dental College Gents Hoste	1987	Hostel	Bagalkot
Kittur Rani Channamma La	2005	Hostel	Bagalkot
B.E College Ladies Hostel	1996	Hostel	Bagalkot
B.E College Malaprabha La	2005	Hostel	Bagalkot
Physical Education College	1997	Hostel	Bagalkot
Physical Education College	2001	Hostel	Bagalkot
S Nijalingappa Medical Coll	2002	Hostel	Bagalkot
S Nijalingappa Medical Coll	2002	Hostel	Bagalkot
Sajjalshri Nursing College L	2005	Hostel	Bagalkot
Sajjalshri Nursing College C	2005	Hostel	Bagalkot
S Nijalingappa Medical Coll	2007	Hostel	Hostel
S Nijalingappa Medical Coll	2007	Hostel	Bagalkot
Nilambika Ladies Hostel	2009	Hostel	Bagalkot

7 Details of all the programs being offered by the Institution under consideration:

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	То	Program for consideration	Program for Duration
Information Science and Engineering	UG	1999	1999	30	Yes	90	Granted accreditation for 3 years for the period (specify period)	2018	2021	Yes	4
Mechanical Engineering	UG	1963	1963	30	Yes	120	Granted accreditation for 3 years for the period (specify period)	2019	2022	No	4
Artificial Intelligence and Machine Learning	UG	2020	2020	60	No	60	Not eligible for accreditation			No	4
Biotechnology	UG	2002	2002	30	No	30	Granted accreditation for 3 years for the period (specify period)	2018	2021	No	4
Electronics and Communication Engineering	UG	1985	1985	40	Yes	120	Granted accreditation for 3 years for the period (specify period)	2019	2022	No	4
Electrical & Electronics Engineering	UG	1963	1963	30	Yes	60	Granted accreditation for 3 years for the period (specify period)	2018	2022	No	4

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	То	Program for consideration	Program for Duration
Digital Communication	PG	2004	2004	18	No	Granted provisional accreditation for two years for the period(specify period) 2017 No		No	2		
Master in Business Applications	PG	2009	2009	60	No	60	Eligible but not applied			No	2
Energy Science and Technology	PG	2020	2020	18	No	18	Not eligible for accreditation			No	2
Food Biotechnology	PG	2020	2020	18	No	18	Not eligible for accreditation			No	2
Defence Technology	PG	2021	2021	24	No	24	Not eligible for accreditation			No	2
Structural Engineering	PG	1994	1994	18	No	18	Applying first time			No	2
Environmental Engineering	PG	2003	2003	18	No	18	Applying first time			No	2
Geotechnical Engineering	PG	1994	1994	18	No	18	Applying first time			No	2
Civil Engineering	UG	1963	1963	30	Yes	Granted accreditation for 3 years for the period (specify period) 2019 2022 No		No	4		
Computer Science and Engineering	UG	1984	1984	30	Yes	120	Granted accreditation for 3 years for the period (specify period)	2019	2022	No	4
Sanctioned Intake for Last Five	Years for the Com	puter Scie	nce and Engineerin	g							
Academic Year					;	Sanctioned Ir	ıtake				
2021-22						120					
2020-21					!	90					
2019-20					!	90					
2018-19					90						
2017-18					!	90					
2016-17					!	90					
Industrial and Production Engineering	UG	1984	1984	30	No	30	Granted accreditation for 3 years for the period (specify period)	2019	2022	No	4

⁸ Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Post Graduate	Engineering & Technology	Computer Science & Engg.
2	Post Graduate	Engineering & Technology	Machine Design
3	Under Graduate	Engineering & Technology	Information Science & Engg.

9 Total number of employees

A. Regular* Employees (Faculty and Staff):

Items		21-22	202	20-21	2019-20	
Rems	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	101	109	102	110	111	115
Faculty in Engineering (Female)	49	50	49	49	50	50
Faculty in Maths, Science & Humanities teaching in engineering program (Male)	12	13	13	13	13	16
Faculty in Maths, Science & Humanities teaching in engineering program (Female)	06	07	07	08	08	09
Non-teaching staff (Male)	182	185	185	195	193	200
Non-teaching staff (Female)	25	25	25	26	26	28

B. Contractual* Employees (Faculty and Staff):

Items		1-22	202	0-21	2019-20	
Rems	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	00	00	00	00	00	00
Faculty in Engineering (Female)	00	00	00	00	00	00
Faculty in Maths, Science & Humanities teaching in engineering Programs (Male)	00	00	00	00	00	00
Faculty in Maths, Science & Humanities teaching in engineering Programs (Female)	00	00	00	00	00	00
Non-teaching staff (Male)	00	00	00	00	00	00
Non-teaching staff (Female)	00	00	00	00	00	00

10 Total number of Engineering students:

Engineering and Technology- UG	Shift1	Shift2
Engineering and Technology- PG	Shift1	Shift2
Engineering and Technology- Polytechnic	Shift1	Shift2
МВА	Shift1	Shift2
MCA	Shift1	Shift2

Engineering and Technology- UG Shift-1

Course Name	2021-22	2020-21	2019-20
Total no. of Boys	1697	1701	1691
Total no. of Girls	1415	1223	1224
Total	3112	2924	2915

Engineering and Technology- PG Shift-1

Course Name	2021-22	2020-21	2019-20
Total no. of Boys	47	66	69
Total no. of Girls	43	57	61
Total	90	123	130

Engineering and Technology- MBA Shift-1

Course Name	2021-22	2020-21	2019-20
Total no. of Boys	43	32	33
Total no. of Girls	45	39	41
Total	88	71	74

11 Vision of the Institution:

To be recognized as a premier technical institute committed to developing exemplary professionals, offering research based innovative solutions and inspiring inventions for holistic socio-economic development.

12 Mission of the Institution:

To pursue excellence through student centric dynamic teaching-learning processes, encouraging freedom of inquiry and openness to change.

To carry out innovative cutting edge research and transfer technology for industrial and societal needs.

To imbibe moral and ethical values and develop compassionate, humane professionals.

13 Contact Information of the Head of the Institution and NBA coordinator, if designated:

Head of the Institution				
Name	Dr. S. S. Injaganeri			
Designation	Principal			
Mobile No.	9481228825			
Email ID	injaganeri@gmail.com			

NBA Coordinator, If Designated

Name	Dr. Anil D. Devangavi
Designation	Professor
Mobile No.	9342186108
Email ID	anildevangavi_s@yahoo.co.in

PART B: Criteria Summary

Critera No.	Criteria	Total Marks	Institute Marks		
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	50	50.00		
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	M CURRICULUM AND TEACHING - LEARNING PROCESSES 100			
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	175	175.00		
4	STUDENTS' PERFORMANCE	100	86.52		
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	149.32		
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00		
7	CONTINUOUS IMPROVEMENT	75	75.00		
8	FIRST YEAR ACADEMICS	50	46.62		
9	STUDENT SUPPORT SYSTEMS	50	50.00		
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00		
	Total	1000	933		

Part B : Criteria Summary

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (50)

Total Marks 50.00

1.1 State the Vision and Mission of the Department and Institute (5)

Total Marks 5.00

Institute Marks: 5.00

Vision of the institute	To be recognized as a premier technical institute committed to developing exemplary professionals, offering research based innovative solutions and inspiring inventions for holistic socio-economic development.					
Mission of the institute	To pursue excellence through student centric dynamic teaching-learning processes, encouraging freedom of inquiry and openness to change. To carry out innovative cutting edge research and transfer technology for industrial and societal needs. To imbibe moral and ethical values and develop compassionate, humane professionals.					
Vision of the Department	To be a Global P	remier Center of Education and Research in Information Science and Engineering				
	Mission No.	Mission Statements				
Mission of the Department	M1	To impart quality engineering education developing ethical,				
ivission of the Department	M2	To carry out interdisciplinary research to fulfill the needs of various sections of society including government, private organizations.				
	M3	To create exemplary young professionals who will promote sustainable development.				

1.2 State the Program Educational Objectives (PEOs) (5)

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	To provide students with strong foundation in mathematics, science, and engineering fundamentals
PEO2	To provide exposure to emerging cutting edge information and communication technologies for achieving excellence in global Information Technology industry.
PEO3	To equip students with the spirit of innovation to carry research type projects to fulfill the changing needs of the society.
PEO4	To inculcate team work, leadership qualities and entrepreneurial, and communication skills among students.
PEO5	To motivate & nurture the students to pursue higher education, involve in lifelong learning, be socially responsible & morally upright Information Technology professionals.

1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (15)

Total Marks 15.00

Institute Marks : 15.00

The Vision, Mission and PEOs of the institute/department are published and disseminated:

- · Published on our institution website (www.becbgk.edu), curricula books, and BEC rules and regulations books.
- · Displayed in HOD chamber, classrooms, and other prominent places of the department.
- · Communicated to parents through student's progress report and to all other stake holders through seasonal greeting cards.
- · Discussed during student and staff meetings, governing council meetings, and academic council meetings.
- · Communicated through college/department brouchers, letterheads, newsletters, magazines, etc.
- · Communicated through banners and brouchers of international/national/state level conferences, workshops, seminars, symposia and student technical fests organized by institute/departments.
- . The PEO's are published on the college website (www.becbgk.edu) and in curricula and course hand books.
- . The PEO's are communicated to parents, alumni through meetings scheduled regularly & to all other stake holders through Emails,
- . The PEO's are displayed in HOD chamber and prominent places of the department.
- · Vision, Mission and PEOs are published in the project diaries.

1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (15)

Total Marks 15.00

Institute Marks: 15.00

The Process for defining the Vision and Mission of the Department:

Brain storming sessions were conducted to define vision and mission of the department with the help of the stakeholders like Parents, Staff Members, Students, Alumni, and Subject Experts. Suggestions and feedback from Industry Experts were also considered. The vision and mission statements are reviewed and approved by Board of Studies (BoS), Academic Council and Board of Governing (BoG).

The process for defining the vision and mission of the department is as shown in Figure 1.1

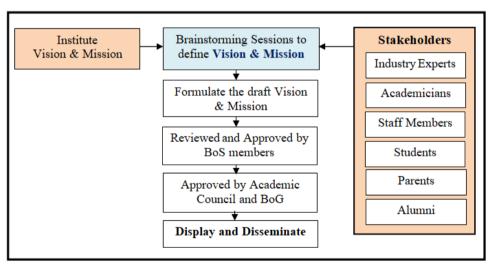


Figure 1.1. Process for defining Vision and Mission of the department.

The process for defining the PEOs of the Department:

For defining the PEOs of the department, PEO's were established by the following process:

- The PEO are formulated through a series of meetings by faculty and stakeholders. PEOs thus formulated are reviewed and approved by BoS, AC, and BoG.
- The PEOs were formulated in tune with the vision and mission statements of the Institute and the department.
- The PEOs thus formulated, reflect the stakeholders' expectations about the attributes, the graduates of the programme should demonstrate.
- . The PEOs will be formally reviewed once in five years to meet the changing needs of the IT Industry and other stakeholders.

The process involved in defining PEOs of the program is as shown in Figure 1.2.

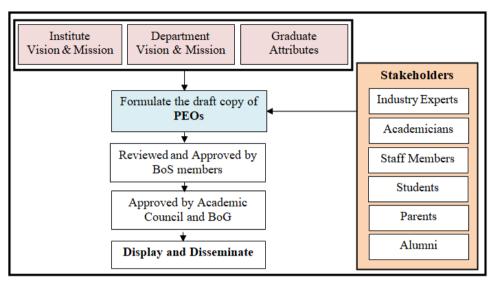


Figure 1.2. Process for defining PEOs of the program.

1.5 Establish consistency of PEOs with Mission of the Department (10)

Total Marks 10.00

Institute Marks: 10.00

Process for mapping PEOs with Mission of the department

The process of defining the PEOs and mapping to the Mission elements involved all stakeholders viz. senior faculty of the Institute, Senior faculty of the department, Industry representatives, Parent representatives, Alumni and Student representatives.

Hence, there is sufficient involvement of the stake holders in the process. To comply with the observation, the mapping of PEOs with mission of the department has been revised and strengthened.

PEO Statements	M1		M2		М3	
To provide students with strong foundation in mathematics, science, and engineering fundamentals	3	~	3	~	1	~
To provide exposure to emerging cutting edge information and communication technologies for achieving excellence in global Information Technology industry.	2	~	3	~	1	~
To equip students with the spirit of innovation to carry research type projects to fulfill the changing needs of the society.	2	~	3	~	1	~
To inculcate team work, leadership qualities and entrepreneurial, and communication skills among students.	3	~	3	~	1	~
To motivate & nurture the students to pursue higher education, involve in lifelong learning, be socially responsible & morally upright Information Technology professionals.	1	~	2	~	3	~

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (100)

Total Marks 100.00

2.1 Program Curriculum (30)

Total Marks 30.00

2.1.1 State the process for designing the program curriculum (10)

Institute Marks: 10.00

The department designs its program curriculum based on the vision and mission of the institution and department. The process for designing the curriculum involves all the stakeholders and is outlined below:

- The process for revising the program curriculum includes department meetings involving the faculty and collecting opinions and feedback from various stakeholders like academicians, industrial experts, alumni, parents, faculty, and students
- A Brainstorming is done on program Educational Objectives (PEOs) and Program Specific Outcomes (PSOs).
- . The curriculum is designed to offer the courses in orderly manner keeping in view of the prerequisites of courses, Program Educational Objectives (PEOs) and Program specific objectives (PSOs).
- Accordingly the program curriculum is designed by mapping with PEOs and POs and the program specific criteria of ACM/IEEE curricula by a sub-committee of faculty. This is deliberated in the department council meetings and a draft curriculum is prepared.
- . The draft curriculum is taken to the BOS meeting where detailed deliberations on revision are done and accepted with or without modifications.
- The revised program curriculum is verified and approved by the academic council.

The Flow chart for design/revision of Program Curriculum of department is as shown in Figure 2.1

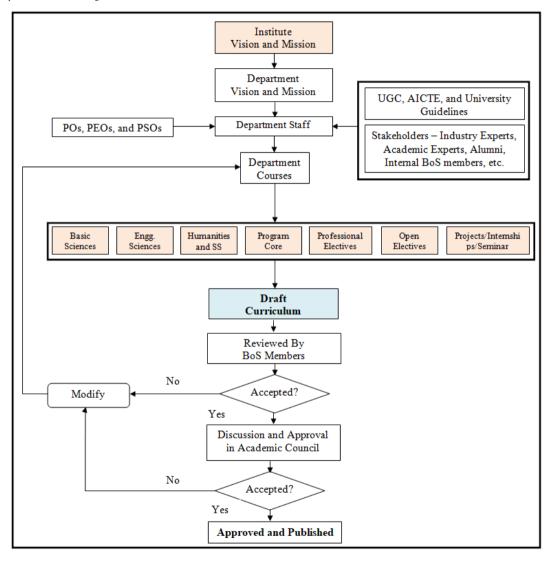


Figure 2.1. The process for designing the program curriculum

2.1.2 Structure of the Curriculum (5)

ID	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	Theory Credits	Practical Credits	Total Credits
1	UMA161C	Engineering Mathematics-I	3	2	0	5	4	0	4
2	UPH162C	Engineering Physics	3	2	0	5	4	0	4
3	UME163C	Elements of Mechanical Engineering	2	2	0	4	3	0	3
4	UEE164C	Basic Electrical Engineering	2	2	0	4	3	0	3
5	UCS165C	Programming With C	3	0	0	3	3	0	3
6	UHS126M	Constitution of India	2	0	0	2	0	0	0
7	UPH166L	Engineering Physics Laboratory	0	0	3	3	0	1.5	1.5
8	UCS167L	C Programming Laboratory	0	0	3	3	0	1.5	1.5
9	UMA261C	Engineering Mathematics-II	3	2	0	5	4	0	4
10	UCH268C	Engineering Chemistry	3	2	0	5	4	0	4
11	UEC269C	Basic Electronics	2	2	0	4	3	0	3
12	UCV270C	Engineering Mechanics	2	2	0	4	3	0	3
13	UBT233M	Environmental Studies	2	0	0	2	0	0	0
14	UME271L	Computer Aided Engineering Graphics	1	0	3	4	0	2.5	2.5
15	UCH272L	Engineering Chemistry Laboratory	0	0	3	3	0	1.5	1.5
16	UBE273L	Basic Engineering Laboratory	0	0	4	4	0	2	2
17	UHS274k	English for Engineers	2	0	0	2	0	0	0
18	UMA336C	Computational Methods in Computer science	3	0	0	3	3	0	3
19	UIS309C	Discrete Mathematical Structures	3	0	0	3	3	0	3
20	UIS315C	Data Structures and Algorithms	3	2	0	5	4	0	4
21	UIS303C	Logic Design	3	2	0	5	4	0	4

22	UIS314C	Computer Organization	4	0	0	4	4	0	4
23	UIS313L	Advanced C Programming Lab	0	2	2	4	0	2	2
24	UIS312L	Logic Design & Simulation Laboratory	0	0	3	3	0	1.5	1.5
25	UIS308L	Data Structures Laboratory	0	0	3	3	0	1.5	1.5
26	UMA436C	Statistics and Probability Theory	3	0	0	3	3	0	3
27	UIS409C	Microcontroller and Embedded Systems	3	0	0	3	3	0	3
28	UIS424C	OOPs with Java	4	0	0	4	4	0	4
29	UIS416C	Theoretical Foundations of Computer Science	3	2	0	5	4	0	4
30	UIS403C	Analysis and Design of Algorithms	3	2	0	5	4	0	4
31	UHS001N	Fundamentals of Quantitative Aptitude & Soft Skills	2	0	0	2	1	0	1
32	UIS421L	Analysis of Algorithms using JAVA Laboratory	0	1	2	3	0	1.5	1.5
33	UIS410L	Microcontroller and Embedded Systems Laboratory	0	0	3	3	0	1.5	1.5
34	UIS509C	Operating Systems	3	0	0	3	3	0	3
35	UIS510C	Software Engineering	3	0	0	3	3	0	3
36	UIS503C	Database Management Systems	3	2	0	5	4	0	4
37	UIS508C	Advanced Java Programming	3	0	0	3	3	0	3
38	UIS0XXE	Professional Elective – I	3	0	0	3	3	0	3
39	UIS514H	Management & Entrepreneurship	3	0	0	3	3	0	3
40	UIS511L	Database Application Laboratory	0	0	3	3	0	1.5	1.5
41	UIS512L	Advanced JAVA Programming laboratory	0	1	2	3	0	1.5	1.5
42	UHS002N	Advanced Quantitative Aptitude And Soft Skills	1	0	0	1	1	0	1
43	UIS610C	Web Programming	3	2	0	5	4	0	4
44	UIS603C	Computer Networks	3	0	0	3	3	0	3
45	UIS0XXE	Professional Elective-II	3	0	0	3	3	0	3

		Total	121	32	72	225	126	49.0	175.0
64	UIS807S/U	S99മിnar/Online Course	0	0	2	2	0	1	1
63	UIS806P	Project Phase – II	0	0	12	12	0	12	12
62	UIS0XXE	Professional Elective – VII	3	0	0	3	3	0	3
61	UIS0XXE	Professional Elective – VI	3	0	0	3	3	0	3
60	UIS718I	Internship	0	0	4	4	0	2	2
59	UIS717P	Project Phase – I	0	0	5	5	0	5	5
58	UIS716L	Software Testing Lab	0	0	3	3	0	1.5	1.5
57	UIS707L	Object Oriented System Design Lab	0	0	3	3	0	1.5	1.5
56	UIS0XXN	Open Elective- II	3	0	0	3	3	0	3
55	UIS0XXE	Professional Elective- V	3	0	0	3	3	0	3
54	UIS0XXE	Professional Elective- IV	3	0	0	3	3	0	3
53	UIS718C	Software Project Management	3	0	0	3	3	0	3
52	UIS720C	Object Oriented Modeling and Design	3	0	0	3	3	0	3
51	UHS003N	Career Planning and Professional Skills	2	0	0	2	1	0	1
50	UIS615P	Mini Project	0	0	3	3	0	3	3
49	UIS611L	Web Programming Lab	0	0	3	3	0	1.5	1.5
48	UIS612L	Computer Networks Laboratory	0	0	3	3	0	1.5	1.5
47	UIS0XXN	Open Elective- I	3	0	0	3	3	0	3
46	UIS0XXE	Professional Elective – III	3	0	0	3	3	0	3

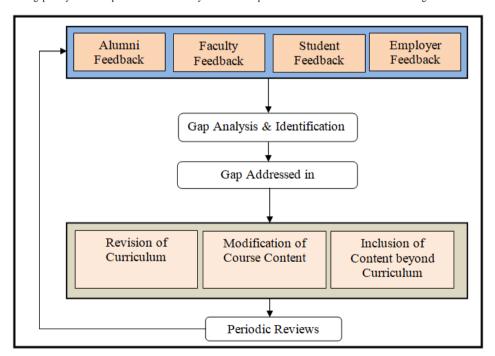
2.1.3 State the components of the curriculum (5)

Institute Marks: 5.00

Course Components	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total number of credits
Basic Sciences	14.28	26.00	25
Engineering Sciences	12.00	30.00	21
Humanities and Social Scie	3.43	9.00	6
Program Core	41.71	96.00	73
Program Electives	12.00	21.00	21
Open Electives	3.43	6.00	6
Project(s)	11.42	20.00	20
Internships/Seminars	1.71	3.00	3
Any other (Please specify)	0.00	0.00	0
Total number of Credits			175

2.1.4 State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I (10)

The feedback from alumni, faculty, and students is collected and carried out the gap analysis is. The process used to identify extent of compliance of the curriculum is as shown in Figure 2.2.



Institute Marks: 10.00

Figure 2.2. The process used to identify extent of compliance of the curriculum

Based on the gaps identified the following measures are considered:

- 1. Revision of curriculum
- 2. Content modification within curriculum
- 3. Beyond curriculum activities like SDP, guest lectures, workshops, competitions, webinars, etc.
- 4. EAP for weak students.

The course components are designed to meet the compliance of the curriculum for attaining the POs and PSOs. The mapping has been made based on the correlation levels like 3-High, 2-Moderate, and 1- Low levels. The attainment of POs and PSOs are calculated through direct and indirect assessment methods. The substantial mapping of the course components with POs & PSOs is as shown in Table 2.1.

Table 2.1. The substantial mapping of the course components with POs & PSOs

Course Components					Pro	gramı	ne Ou	tcome	3					ram Sp Objective	
	Engineering knowledge	Problem analysis	Design/development of solutions	Conducting investigations of complex problems	Modern tool usage	The engineer and society	Environment and sustainability	Ethics	Individual and team work	Communication	Project management and finance	Life0long learning	Engineering fundamentals	Information and Communication Technology Solutions	Ethical, Social and Professional Responsibilities and Lifelong learning
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Basic Sciences	3	3	1	1	0	0	0	0	0	0	0	0	3	2	1
Engineering Sciences	3	3	1	1	0	0	0		0	0	0	0	3	2	1
Humanities and Social Sciences	1	3	1	1	0	3	3	3	3	3	1	3	1	3	3
Program Core	2	2	3	2	2	1	1	1	1	1	1	2	2	3	2
Program Electives	2	2	2	2	2	1	1	1	1	1	1	1	2	3	2
Open Electives	2	2	2	2	2	1	1	1	1	1	1	1	2	3	2
Project(s)	2	3	3	3	2	2	2	3	3	3	3	2	2	3	2
Internships	2	3	3	3	3	2	2	3	3	3	3	2	1	3	2
Seminar	1	3	0	1	3	3	0	3	1	3	0	1	1	3	3
Online	1	1	2	2	1	1	0	0	1	0	0	3	1	1	3

2.2 Teaching-Learning Processes (70)
Total Marks 70.00

2.2.1 Describe Processes followed to improve quality of Teaching & Learning (15)

Institute Marks: 15.00

The faculty of the department adopts various innovative Teaching & Learning methodologies to create the best learning environment for the students. These methodologies include traditional chalk & talk methods, presentations, video lecturing, and collaborative learning methods. Every concept is explained with real world illustrations, design, and problematic aspects. All faculty members are oriented towards Outcome Based Education (OBE) and are actively utilizing the OBE to cater the learning needs of students by innovative ways. The lecture Session duration is 60 minutes. Laboratory duration is 120/180 minutes. Assignments are given to students for their better performance. The process of teaching - learning is as shown in figure 2.3.

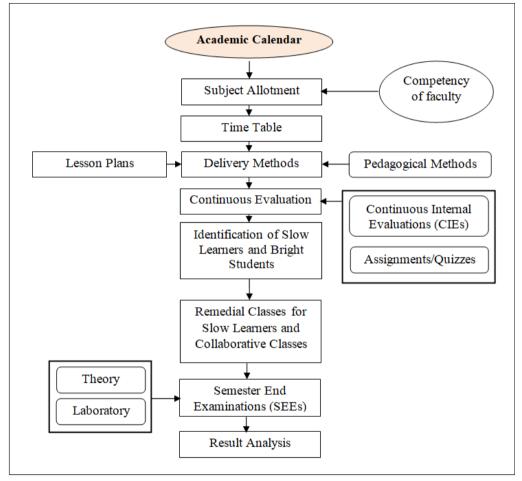


Figure 2.3. Teaching Learning Process

The processes followed to improve the quality of Teaching and Learning is as below:

A. Adherence to Academic Calendar

Department follows the academic calendar provided by the institute. It consists of the activities planned for the semester which includes internal test dates, laboratory and semester end examination schedules, etc. The sample copies of the institute academic calendar for the academic years are as shown in Figure 2.4

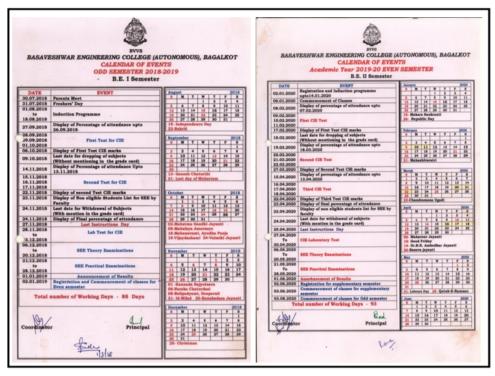


Figure 2.4. Sample Copies of Academic Calendars

B. Pedagogical Initiatives

The department has been using pedagogical initiatives to improve the quality of teaching and learning are as shown in Figure 2.5. The process for the same is as listed below:

- 1. Subject allotment is done well in advance for the staff members to prepare lesson plans, course plans, soft and/or hard copies of the lecture notes.
- 2. The following pedagogical initiatives are being adopted in the department Guest Lectures/Invited Talks, Collaborative Learning is achieved through Student Association or Club Activities, Assignments, Group Works in the Laboratory (Mini-Projects/Main Projects/Main Projects), Workshops, Tutorials/Remedial Classes, Alumni Talk, Soft Skill Training, Mentoring Sessions, and Industrial Visits.
- 3. Invited talks and seminars/webinars on the current trends are arranged regularly from the industry/academia persons.
- 4. Tutorial/Remedial classes are conducted to support the slow learners based on their academic performance.
- 5. Workshops are organized to help the students to understand concepts beyond the curriculum.
- 6. Mentoring sessions are conducted to provide guidance to students towards achieving professional fulfillment and assessment of his/her academic progress as well as personal growth. One-one discussions, interaction between professors and students have increased the confidence levels of the students.

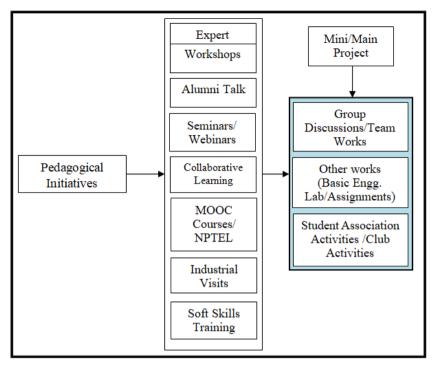


Figure 2.5. Pedagogical Initiatives for Teaching and Learning Process.

C. Methodologies to support weak students and encourage bright students

Initiatives and implementation details of encouraging bright students

The bright students are identified based on their overall performance and their orientation towards academics. Institute always has a culture of encouraging bright students by providing them with the necessary guidance and moral support. The imapet analysis for the same is as shown in table 2.2.

The department always encourages bright students to take up extra-curricular activities on various platforms attend more workshops and technical talks. The department has adopted the following activitities for students every year.

- Awarding Gold Medal to the 1st rank holder.
- · Awarding 5 ranks every year.
- · Class Toppers are awarded every year.
- Financial assistance to attend conferences, workshops, competitions, etc.
- · Encouraged to take up innovative projects and apply for funding.
- Students are motivated to attend more workshops and technical talks or events in-house or outside.
- Encouraged to take up the additional online courses like MOOCS/SWAYAM/NPTEL, etc.
- Encouraged to take up BE Honours or minor degree courses.
- · Bright Students are encouraged to be members of professional bodies like IEEE, ISTE/CSI, etc.
- Encouraged to take up competitive exams like GATE, GRE, TOEFL, PGCET, UPSC and KPSC exams, and so on.
- · Students are encouraged to participate in various student club activities.

Impact Analysis of Bright Students

- Improvement in Semester End Examination (SEE) results
- · Improvement in programming skill, placement activities, paper writing skill, and higher studies,
- · Improvement in communication and presentation skills
- · Impact on taking online courses.

Table 2.2. Impact Analysis for Bright Student

Sl. No.	Measures		Academic Year	Remarks/Impact	
51. 110.	Measures	2018-19	2019-20	2020-21	Remarks/Impact
01	Placement Training:				
	a) Attended	74	82	82	
	b) Placed	68	68	67	
	- On Campus	29	32	56	Due to continuous efforts on campus is increased.
	- Off Campus	39	36	11	
	c) Highest LPA	5	5	15	Improvement in LPA
	d) Average LPA	3	3	6	Improvement in LPA
02	BE Honors			01	It is introduced in the academic year 2019-20
03	Online Courses – NPTEL/SWAYAM	03	01	13	Because of awareness, increase the number of registration
	Competitions:				
04	a) Participated	07	09	68	Due to pandemic most of the competitions were online during the academic year 2020-21
	b) Prizes	03	03	00	Due to pandemic, the number of prizes reduced.
05	Student Development Porgrammes	08	08	09	Improvement in placements
	a) Number of Attended	67	74	76	Improvement in placements
06	Seminar/Webinars	64	72	74	Improvement in placements
07	Quizzes	02	02	08	Improvement in Knowledge
08	GATE/PGCET	09	03	00	Because of increase in industry requirments, students inclined towards placements.

Initiatives and implementation details of Assisting Weak Students

The department has a well-defined process of monitoring, guiding, and assisting slow learners (weak students). The following process is adopted every year.

- Care is taken by the faculty in monitoring the performance of slow learners, the students deviations from studies is observed by the respective mentors and corrective measures are taken.
- · Every parent is informed about marks and the attendance of their respective candidate.
- Additional coaching is given to slow learners through remedial classes and study materials are provided to them.
- A special counselling and tutorial classes are conducted by the faculty for those students who have failed in any subject.
- Motivate the weak students to attend tutorials and help them solve more assignments/problem

Impact Analysis of Weak Students

- Improvement in Semester End Examinations Remedial Classes
- · Improvement in programming skills

- · Develops positive attitude among students
- Improvement in placement, co-curricular/extra-curricular activities, participating in technical events, etc.

Impact Analysis of Remedial Classes (one of the measures take to assist weak students). The following table 2.3 shows the details of remedial classes and imaget analysis for the same.

Table 2.3. Details of remedial classes .

S.N.	Academic Year	Name of Faculty Member	Subject with Subject Code	Department	Total Classes Engaged	Number of Students Registered	Remarks
1	2020-21	Prof. P. K. Deshpande	Aigoriums	Information Science and Engineering	17	37	Improvement
2	2019-20	Prof. P. K. Deshpande	Aigoriums	Information Science and Engineering	20	35	found in CIE scores
3	2018-19	Prof. P. K. Deshpande	Aigoriums	Information Science and Engineering	18	30	

D. Quality of classroom teaching

The quality of classroom teaching is an important factor to ensure quality learning by the students. To ensure quality of learning in the classroom following measures are used:

- Class rooms are equipped with smart boards, interactive boards which are used to deliver lecture effectively.
- · Also, lecture-capture facilities are available in some of the classrooms. Thus captured videos are uploaded in the institute website for further reference by the students.
- The department has separate seminar hall with seating capacity of 100 which is equipped with modern presentation tools like audio, video, etc. The seminar hall is also equipped with air conditioners.
- · Every classroom has good ambience interms of lighting, seating, etc.

E. Conduction of experiments

- · Before the commencement of every semester for the academic year, the required softwares are installed in every laboratory as per the curriculum.
- The faculty members instruct the students about the conduction of laboratory assignments. Also, the faculty members have prepared the laboratory manuals for their respective subjects.
- . The manuals for every laboratory course are prepared and verified by the faculty members before the commencement of each semester.
- · The manuals are kept in the laboratory for student reference.
- Sometimes, the students are asked to write the programmes for the problems which are not part but related to the regular assignments/programme listed during the examinations of CIE and SEE. Viva-voce is also conducted to the students in order to test their knowledge in the experiment or beyond.
- Every student maintains a book to record the details of work done in each laboratory session.

The following are the list of assignments:

F. Continuous Assessment in the Laboratory

- The laboratory assessment is performed on the basis of rubrics such as submission of laboratory records, participation in performing the experiments, analysis and interpretation of experiments, etc.
- The laboratory assignments/experiments are assessed continuously as following:
- 30 marks for conduction of all assignments/experiments:
 - o Each assignment/experiment is assessed immediately after completion by the students and marks are awarded based on the following rubrics:
 - Write-up 25%, Execution 25%, Submission 25%, Viva 25%
- 20 marks for Internal examinations:
 - o At the end of the semester, internal examination is conducted for every laboratory. The assessment and award of marks is based on rubrics as shown below table 2.4.

Table 2.4. Rubrics for assessment and award of marks.

Sl. No.	Parameters	Marks

01	Write-up: No writeup – 0% Moderate Analysis/Design/Code – 25% Good Design/Code – 50% Excellent Design/Code – 100%	05
02	Adhering to Coding standards (Proper indentation, use of comments, use of meaningful names to variable, functions, etc.) – 20% Error free Compilation – 50% Correct results – 100%	
03	Viva-Voce – Based on question answering	05

G. Student Feedback on Teaching learning process and action taken

During the semester after one or two weeks an informal feedback is taken by head of department to know the problems being faced by students. If students are facing difficulty in any subject, the concerned faculty member is informed the same. Necessary guidance and support is given by HOD and another senior subject faculty member.

At the end of every semester feedback is collected through an online process system from the students. The suggestions are analyzed by the concerned HOD. Every question has a weightage up to 10 points. Based on the average points accrued for all the questions the faculty performance level is assessed. The performance of the teacher is graded as below table 2.5.

Table 2.5. Feedback analysis

More than 8 points	:	Excellent
From 6 to 8	:	Good
From 5 to 6	:	Average
Below 5	:	The teacher is subjected for any corrective measures as decided by Head of the Department

The teachers are rewarded with appreciation letters wherever they get a feedback of excellent and good.

The sample copy of feedback form and appreciation letter are shown below:



BASAVESHWAR ENGINEERING COLLEGE(AUTONOMOUS) ,BAGALKOT STUDENT FEEDBACK REPORT

DEPARTMENT : INFORMATION SCIENCE & ENGINEERING

FACULTY NAME: PROF. PV.KULKARNI SUBJECT TITLE: INFORAMTION SYSTEMS SUBJECT CODE: UISJOBC DIVISION: A SEMESTER: 3 ACADEMICATE B. 2016-17 SESSION: COD NUMBER

ACADEMICYEAR: 2016-17 SESSION : ODD NUMBER OF STUDENTS:	33 IS
A TIME SENSE/TIME MANAGEMENT	SCOR
	8.13
A-1 Regularity in taking the class A-2 Arrives to class at scheduled time	8.02
A-2 Arrives to class at scheduled time A-3 Leaves the class at scheduled time	7.67
A-4 Completes the course syllabus in time	7.84
A-9 Companies the course synamus in time A-6 Follows the scheduled organization of circ tests ,assignments,quizzes and seminars(adherence to	7.82
A-O Follows the scheduled organization of the seas ,assignments, quiezes one sentiment automated as calendar)	1.06
A-6 Makes alternate amongoment of class in his/her absence	7.51
B SUBJECT COMMAND/KNOWLEDGE	SCOR
B-1 Lecture planning	8.09
B-2 Come propared for the class	8.09
B-3 Denth of knowledge about the subject	7.73
B-4 Knowledge about recent developments in subject area	7.91
B-5 Illustrations, live examples and problem solving	7.96
B-6 Skill of linking subject to life experience & creating interest in the subject	7.87
B-7 Standard books referred	8.20
C COMMUNICATION SKILLS AND PERSONALITY	SCOR
C-1 Fluency in snoken enalish	7.98
C-2 Audibility	7.91
C-3 Body language	7.51
C-4 Eve contacts	7.33
C-5 Appearance (Neatness and cleanliness of dress)	8.04
C-6 Lanzuage used is easy and simple way to understand	7.33
D USE OF TEACHING METHODS/ TEACHING AIDS	SCOR
D-1 Black board usage	7.89
D-2 Blackboard/Whiteboard work in terms of legibility, visibility and structure	7.96
D-3 Drawing figures, Graphs	7.71
D-4 Usage of teaching aids such as LCD, OHP etc.	7.76
D-5 Demonstration through models, protocypes, charts	7.27
D-6 Resonance to questions	8.02
D-7 Extraction of answers	7.84
D-8 Faculty makes sure that students are understanding the subject	8.04
D-9 Gives notes wherever required	7.73
E COUNSELING AND MENTORING	SCOR
E-1 Ameroach towards developing professional skills among students	8.49
E-2 Availability and Listening to students problem during college hours (Friendliness)	8.04
E-3 Helping approach towards varied academic interests of students.	7.87
E-4 Inscires students for ethical conduct	7.80
E-5 Motivates students to study the subjects	8.71
E-6 Approachable and Interactive and taking Individual care	7.42
E-7 Helps students in realizing career goals and developmental needs	7.58
F EVALUATION QUALITY	SCOR
F-1 Quality of CIE Question paper setting	8.00
F-2 Fairness in Evaluation	8.07
	8.49
F-3 Timely Evaluation and display of marks	0.49



BASAVESHWAR ENGINEERING COLLEGE(AUTONOMOUS) , BAGALKOT STUDENT FEEDBACK REPORT

DEPARTMENT : INFORMATION SCIENCE & ENGINEERING
FACULTY NAME : PROF. F-V. KULKARINI
SUBJECT TITLE : INFORMATION SYSTEMS
SUBJECT CODE : USUSBOE DIVISION : A SEMESTER: 3
ACADEMICYEAR: 2016-17 SESSION : ODD NUMBE

NUMBER OF STUDENTS : 33 IS

T-1 Learning outsome of the subject
T-2 Recommend himber to teach the same subject for next year Same faculty member for same subject
T-3 Overall performance of the faculty member
T-3 Overall performance of the faculty member

MOTE: This questionnais has been designed by Bazareshare Engineering Callege (Autonomous) Bagailaid to sock of feedback from the student is swepthen the quality of leading-learning sentenment and to just for appendixtic to represe learning performance in obstraction engagement with students in large acceleration in Section 4 hourses, for the students performance in obstraction engagement with students in Johnson and washing in Section 1 hourses and a learning section for the students performed by the proof of the Section 1 have provided by the students of the students



Letter of Appreciation

This letter of appreciation is awarded to Prof. P. V. Kulkami based on the excellent feedback given by the students for subject "Information System" during the academic year 2016 -2017(Odd Semester).

Head of the Department (ISE

Que just

H. Availability of learning beyond syllabus contents and promotion

- Provision of Internet in the hostels helps the students to learn beyond what is taught in the classroom
- The biggest resource for self-learning is obviously the college library. The college library not only possesses plenty of books to meet the students' syllabus-oriented needs, but it also houses numerous books by eminent national and international authors on a variety of topics which students may regularly access to sharpen and broaden their knowledge.
- The library also possesses a number of journals (national/international), conference proceedings (national/international), magazines and periodicals related to different branches of science and technology which the students may readily access.
- . Students are encouraged to visit NPTEL lectures, 'Coursera' courses, MOOCs courses, browse different internet sites to increase their knowledge base about the subject.
- Various SDPs/technical talks/guest lecture etc., are conducted to cater to needs of the students beyond the curriculum.

2.2.2 Quality of end semester examination, internal semester question papers, assignments and evaluation (15)

A. Semester End Examination (SEE)

Quality of question paper is ensured by setting the questions keeping in mind the blooms learning levels, COs, and PIs. A uniform structure for the question paper has been adopted. The question paper contains a total of eight questions containing two questions from each unit of the syllabus. Student has to answer any five full questions choosing at least one question from each unit. This is done to make the student to prepare the entire syllabus to score better and also to ensure the attainment of all course outcomes defined.

Each question paper contains (not restricted to):

- 30% 40% of questions in higher level of learning.
- 60% 70% of questions in moderate level of learning.

A weightage for SEE is 50% and is conducted through one exam at the end of semester for 100 marks and reduced to 50 marks.

From the academic year 2021-22, the performance indicators are also mapped with questions. The sample copy of SEE QP is as shown below:

Institute Marks: 15.00

B.E. Fifth Semester End Examinations, December 2019 Software Engineering

Duration: 3 Hours Max. Marks: 100

NOTE: Answer any FIVE full questions selecting at least ONE from each unit.

Q.	No.	Question (musa tai)done	Marks	BLL	CO
		UNIT - I	aim .		
1.	a)	What is a software service? Give an example of software service.	8	3	1
•	α,	Differentiate between a program and a software project.	MW	3	
	b)		8	1	2
	,	the advantages and disadvantages?			
	c)	State the advantages of structural programming.	4	2	1
		Cyrentain ministra			
2.	a)	Illustrate when prototype model of SDLC is preferred.	8	3	2
	b)	Explain the activities that are taken during each of the four	8	3	2
		quadrants in spiral model of S/W development.			
	c)	Identify the definite stages through which a S/W product	4	2	2
		undergoes during life cycle.			
	Ÿ.,	paths and hence derive test cases to test all path.			
		ne following softwa II - TINU by metrics. ROCOF, 10			
3.	a)	Define cohesion and coupling. List the different types of	8	2	3
٥.	۳,	cohesion and coupling.		_	J
	b)	Differentiate function oriented S/W design and object oriented	4	3	3
	2	S/W design.			
	c)	Tic-Tac-Toe is a computer gate in which a human player and a	8	4	3
		computer make alternative moves on a 3×3 square. A move	oft ataU		
		consists of marking previously unmarked square. The player			
		who first places three consecutive marks along a straight line i.e			
		along row, column, or diagonal wins the game. As soon as either			
		human or computer wins, a message congratulating the winner			
	Carried States	should be displayed. If neither player tring and all the squares			

should be displayed. If heither player wills and all the squares are filled up, then the game is drawn. Computer always tries to win. Drawn context level (level 0) and level 1 DFD for this problem description. a) Identify the use cases and actors in the registration process of 3 BEC and write the use case diagram. b) Write the activity diagram for the admission process of BEC. List the characteristics of good user interface. UNIT - III Define the following: 10 4 iv) Multiple condition testing. Statement testing. ii. Branch testing. v) Path testing. iii. Condition testing.

UIS522C A function accepts the marks scored in a subject in integer and · 5 return the grades as per BEC autonomous grading system. (Letter grade F,E,D,C,B,A and S based on marks scored). Using equivalence partitioning and boundary value analysis methods derive the test cases to test this function. 6. a) For the program bellow find cyclomatic number int bin search(int num) int min, max; min=0; max=100; While(min!=max) { if (array[min+max]/2)>num max = [min + max]/2else

```
if (array[min+max]/2)<num
             min=[min+max]/2
          else
          return(min+max);
        return(-1);
   Find the paths and hence derive test cases to test all path.
b) Define the following software reliability metrics. ROCOF,
   MTTF, MTTR, MTBR, POFOD, Availability.
   What are the disadvantages of considering only LOC for
                                                                              5
    estimating the project cost?
b) Write the formula for effort and development time in Basic
                                                                              5
   COCOMO model. Assume that the size of an organic type of
   S/W product has been estimated to be 32,000 line of source
   code. Assume average salary of S/W engineer is Rs.
    15,000/month. Determine the effort required to develop the S/W
   product and the normal development time using basic COCOMO
   model.
   Write note Putnam's study on project staffing.
                                                                              5
                                                                 20
    Write short notes on:
      i. GANT chart
     ii. PERT chart
    iii. TEAM structures
     iv. Characteristics of good S/W engineer.
```

2

B. Continuous Internal Evaluation (CIE)

Internal evaluation is on continuous bases (Continuous Internal Evaluation (CIE)) by conducting three CIE tests each for 15 marks.

- Internal evaluation (CIE) question papers are prepared considering the standards of OBE and COs, and PIs.
- Internal Question Paper Scrutiny Committee (IQPSC) is constituted which scrutinizes the question paper set by faculty.

The sample copy of SEE QP is as shown below:



BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS) BAGALKOT

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

CIE TEST-II – (EVEN SEMESTER 2020-21)

Course	B.E	Semester	4
Subject	TFCS(UIS406C)	Division	A & B
Date	06-07-2021	Time	3-4 PM
Faculty Name	Dr. S. R. Patil	Max.Marks	30

Answer any TWO full Questions

		MARKS	BLL	CO
Q1.a.	State and prove pumping lemma for regular languages.	07	2	2
b.	Show that L= an! is not regular	08	3	2
	-			
Q2.a.	Find the minimized DFA for the following using table filling algorithm.	9	3	2
b.	Show that the regular language is closure under reversal	06	3	2
Q3.a.	Obtain a grammar to generate integers	07	3	3
b.	Is the following grammar ambiguous? S→aB/bA	08	3	3
	A→aS/bAA/a B→bS/aBB/b			

C. Assignments

Assignment problems and submission dates are given by the respective faculty members in each subject. All assignments are framed and mapped with COs and Bloom's taxonomy. The weightage given to assignments is 5% and for the evaluation of the same, various methods such as MCQs, Quizzes, Seminars, etc have been employed.

The sample copy of assignment is as shown below:

DATA MINING (UIS061E)

Assignment 2.

Each assignment carries 5marks. Submit the assignments in an A4 size paper (typed), using 12 pt. font size, and Times New Roman font style. The assignments will be evaluated as per the rubrics of assignment 1.

1.	Define the following: a. Support of an item set.	L1, CO3
	b. Support of an association rule.	
	c. Confidence of an association rule.	
	d. Apriory principle.	
	e. Frequent itemset.	
	f. Closed Frequent itemset. g. Maximal Frequent itemset.	
	g. Maximal Prequent itemset.	
2.	Prove that all nonempty subsets of a frequent itemset must also be frequent.	L3, CO3
3.	The Apriory algorithm uses a hash tree data structure to efficiently count the support of candidate itemsets. Consider the hash tree for candidate 3-itemsets shown in Figure.	L3, CO3
	1,4,7 2,5,8 1,5 1,4,7 2,5,8 1,11 2,5,8 1,11 2,5,8 1,11 2,5,8 1,11 1,4,7 2,5,8 1,4,1 1,4,7 2,5,8 1,4,1 1,4	
	b. Which of the hash tree leaf nodes will be visited when finding the candidates of the transaction for the above transaction?	
4.	Consider the following market basket transaction table. Find all the frequent item sets and then the association rules. Assume 30% support and 60% confidence. Use a. Apriory principle. Use $F_{k-1} X F_{k-1}$ method to generate candidate itemsets. b. FP tree and use it to find frequent itemsets. c. ECLAT	L4, CO3

D. The complete evaluation process of SEE and CIE examinations

The complete evaluation process is as shown in below table:

Table 2.6. Evaluation Process for Examinations

e - NBA

Sl. No.	Examination	Particular	% of marks
1	Theory	CIE-1	15
		CIE-2	15
		CIE-3	15
		Assignments	05

	I					
	Market Basket transaction Table					
	Tid Items in transaction					
	1. {a, b, d, e}					
	2 {b,c,d}					
	3 {a,b,d,e}					
	4 {a, c, d, e}					
	5 {b, c, d, e}					
	6 {b,d,e}					
	7 {c, d}					
	8 {a, b, c}					
	9 {a, d, e}					
	10 {b, d}					
5.	Write a function which will take an association rule $(X \to Y)$ as input and returns	L5, CO3				
1	the confidence of the rule. Define a data structure to store the support of frequent					
	itemsets and assume your own supports.					
	remote and assume your own supports.					
	float find confidence (string X, string Y)					
	{					
	`					
	}					
6.						
	frequent and maximal frequent itemsets using the lattice.					
7.	Illustrate using an example the limitations of using confidence measure to find the L4, CO3					
	goodness of an association rule.					

Date announced: 24.02.2018 Date of Submission: 07.03.2018 P V Kulkarni.

		SEE	50
2	Practical	CIE	30 - Laboratory Experiments
			20 – Internal Examinations
		SEE	50
3	Project Phase-1	CIE	50
		SEE	50
4	Project Phase-2	CIE	50
		SEE	50
5	Seminar/Internship/Mini Project	CIE	50
		SEE	50

2.2.3 Quality of student projects (20)

Institute Marks: 20.00

- The project coordinator advises the students to form a group of 2 to 4 members and identify the project area / title, obtain the consent of faculty/industry professionals to guide them.
- The Project coordinator collects these details from the students at the beginning of seventh semester.
- The Head of Department/ project coordinator finalize project titles, project guide, and group of students and display the allocation within one week.
- · Students are encouraged to carry out in house projects and support will be provided with all necessary software and hardware.
- The Head of Department / project coordinator allocates laboratory resources for in-house projects. Also, allocates the number of days per week for working on the projects in the industry, if the project is being carried out in industry.
- Students are encouraged to participate in project exhibitions. The project exhibition was aimed to provide common platform to exhibit their innovations and their work towards excellence in latest technology.
- The faculties encourage students to avail the external funding schemes for their project work. (Like KSCST, VTU project funding scheme, TEQIP, and KBITS).

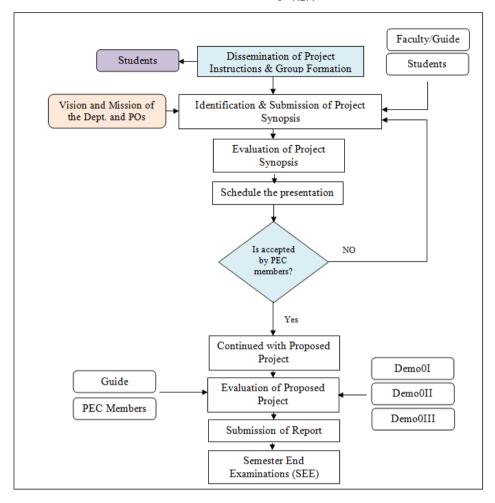


Figure 2.6. The Process of Project identification, allotment, monitoring and evaluation

The process of project identification, allotment, monitoring and evaluation is as shown in Figure 2.6. The descriptions for the same is described below.

A. Identification of projects and allocation methodology to faculty

A.1. Project Identification:

- The student's projects are selected in line with department mission, vision and program outcomes.
- · Department encourages to identify interdisciplinary projects.
- The projects are identified to relevant contexts in terms of application, product, research, review, etc.
- · Also, students are provided with brief idea of various new fields for selecting the project ideas from various domains and technologies like Cloud computing, Internet of Things, Image Processing, Patterns recognition, etc.

A.2. Project Allotment:

- · Faculty are allocated as guides to guide the student's project based on their area of expertise and Interest.
- Sometimes, students are also given choice to choose their guide that matches their project domain.

B. Types and Relevance of the projects and contributions towards attainment of POs and PSOs

The following tables show the types and relevance of the projects for the academic years 2018-19, 2019-20, and 2020-21.

Table 2.7. The Projects Relevance with POs and PSOs – AY 2018-19

Sl. No.	Project Title	Project Mates	Guide	POs Contributed	PSOs Contributed	Type of Project
1	Big Data Analytics of energy data of BEC Campus	Abhishek Viraktimath Prakash Tadasad Shivakumar Shidenur Yeshwant Markod	Dr. S. R. Patil	IS-PO2,		Research
2	Android based water level detection for an over head tank	Jyoti Ambi Parvati Balumath Lakshmi Kakkalameli Soumya P. Munavalli	Dr. S. P. Bangarashetti	IS-PO3,	IS-PSO1, IS-PSO2,	Application
3	IoT Based Health Monitoring System	Arun Marol Gollalesh M B Sunilkumar Shravya Shastri	Prof. P. K. Deshpande	IS-PO5, IS-PO11, & IS-PO2,	IS-PSO3	Application
4	LPG Gas Leakage Detection using IoT	Pragathi S. P. Pavitra Nishat Anjum Aishwarya	Prof. Deepa I. K.	at Post of Pso		Application

Table 2.8. The Project Relevance with POs and PSOs - AY 2019-20

Sl. No.	Project Title	Project Mates	Guide	POs Contributed	PSOs Contributed	Type of Project
	Streetlight	Aishwarya Joshi		IS-PO2,	IS-PSO1,	
1	Automation and Underground cable fault detection	Nikhita Vithal Latni Sahana Ashok Patil	Prof. S. N. Kugali	IS-PO3,	IS-PSO2,	Research
	monitoring System.	Tejashwini G Gangangoudar			&	
		Shridhar K		IS-PO4,	IS-PSO3	
	Smart Agriculture	Akshay Malaghan		IS-PO5,		
2	Monitoring System	M. B. Bhovivaddar	Dr. S. R. Patil			Application
		Manthan Betageri		IS-PO11,		
				&		
3	Greenhouse Monitoring and	Chaitra Nagraj D.	Dr. S. P. Bangarshetti	IS-PO2,		Application
	Control System using IOT	Komal P. Badnikai				

		Pooja Chavan Shruti Bhanvi			
4	Visual Product Identification for Blind using Android App	Ashwini Patil Chandrashekar N. Patil Manisha Ramesh Handi Prafulkumar C. Shettar	Dr. B. M. Reshmi		Application

Table 2.9. The Project Relevance with POs and PSOs - AY 2020-21

Sl. No.	Project Title	Project Mates	Guide	POs Contributed	PSOs Contributed	Type of Project
1	Smart Home Automation System	Sushma K. Aishwarya C. Basavannevva D. Deepa S.	Prof. R. B. Math	IS-PO2,		Application
2	Insurance Fraud Detection using machine Learning	Aishwarya A. Jotshna K. Laxmee M.	Prof. C. R. Shivanagi	IS-PO3,	IS-PSO1,	Research
3	Smart Bottle Monitoring System	Pratima D. Anusha A. K. Poornima B. Prafulla M. H.	Dr. A. D. Devanagavi	IS-PO5, IS-PO11,	IS-PSO2, & IS-PSO3	Application
4	Li-Fi(Light Fidelity) text communication system	Rakesh p. N. Shrihari K. Vijayakumar S. H. Yamanoor M.	Dr. L. B. Bhajantri	& IS-PO2,		Research

C. Process for Continuous Monitoring and Evaluation

- . Every academic year, a faculty is nominated as a project coordinator who is responsible for planning, scheduling, and execution of all the activities related to the student's project work.
- The Project Evaluation Committee (PEC) is constituted comprising of HoD, senior faculty, and project coordinator. This is responsible for monitoring of students project progress through three demonstrations based on the rubrics.
- · Project students should meet their respective guide weekly once or twice and asked to explain their progress they have done in their project.
- Project guide will assess each student in team and make them work in right way
- They should submit project progress report weekly once and to get approved by the respective guide.
- The faculty and students must update the project diary on every interactions were carried out.

Project Evaluation:

- Project works are evaluated by the Project Evaluation committee (PEC) as per the schedule.
- The PEC members evaluate and assess the performance of project teams periodically by three demonstrations in the semester, as per the rubrics.
- · Students appear before the committee with power point presentation and followed by actual demonstration work done and Viva-Voce.
- The best projects are selected, scrutinized by the PEC members and recommended for exhibitions and competitions.
- · Each project is evaluated with internal marks and are graded according to their project quality and with their contribution towards attainment of PO's

The evaluation of project phase-I and Phase-II are described below:

1. Project Work Phase - I

1. CIE - 50 Marks

Marks awarded by Project Internal Evaluation Committee (PIEC) based on the progress of the project evaluated periodically by three demonstrations. Marks of the demonstrations are cumulated and split as Demo 1: for 15 marks, Demo 2: for 15 marks, Demo 3: for 20 marks. Final marks will be sent to the examination section by the project coordinator. The marks are allotted based on the rubrics developed for each of the demos.

2. SEE - 50 Marks

Departmental Committee (DC) will conduct the examination which consists of Two Senior Staff and Guide (HOD/Nominee, Guide, and Project Coordinator). The allocation of marks is done based on the rubrics.

2. Project Work Phase - II

1. CIE - 50 Marks

Marks awarded by DC based on the progress of the project evaluated periodically as explained for project phase - I.

2. SEE - 50 Marks

The Project Evaluation Committee (PEC) will conduct the examination which consists of one internal Examiner, one external examiner, and HoD/HoD nominee. External examiner is appointed by COE from outside the college.

D. Process to asses individual and team performance

Each student has to carry out two projects, miniproject in semester 6 and main project in two phases (Phase-I in 7th semester and phase-II in 8th semester). The individual and team performance is assessed in regular intervals and marks are awarded as per the rubrics mentioned below:

R1: Rubrics to evaluate mini-project in the beginning of semester: Within ONE MONTH from the start of 6th semester BE

Evaluation Criteria	Needs improvements (Poor) (2)	Acceptable (Average) (3)	Satisfactory (Good) (4)	Proficient (Very good) (5)	Total marks	Evaluated by
Articulate problem statements and identify objectives - GA	Problem statement and objectives are not clear	 Problem statement is clear and objectives are not in line with problem statement 	 Problem statement is clear and objectives are not completely defined. 			
Identify existing processes/ solution methods for solving the problem, including forming justified approximations and assumptions - GA	Not able to identify existing solution for solving the problem. The assumptions, approximations and justifications are identified but not clear	existing solution for solving the problem. But assumptions and	existing solution for solving the problem. Assumptions,	existing solution for solving the problem. and	15	Committee consisting of (s), HoD, Mini-project coordinator and guide Each will evaluate for 15 marks and
Compare and contrast alternative solution processes to select the best process- GA	Not able to compare alternative solution processes	alternative solution processes but could not contrast clearly	 Able to compare alternative solution processes and contrast clearly but not able to select best process 	alternative solution processes,		average of all the three is the marks awarded

GA-GroupAssessment

IA - Individual Assessment

R2: Rubrics to review mini-project: Before 15 days from the end of 6th semester of B.E.

Evaluation Criteria	Needs improvements (Poor) (2)	Acceptable (Average) (3)	Satisfactory (Good) (4)	Proficient (Very good) (5)	Total marks	Evaluated by
Apply formal idea generation tools to develop multiple engineering design solutions and Identify suitable criteria for evaluation of alternate design solutions - GA	Able to identify but not able to use it effectively Ableto identify criteria but not abletousethem	Abletousethe tool but not abletogenerate engineering designs Able to use criteria but not able to compare alternatives	 Able to generate engineering designs but not able to justify Not able to justify the comparison with criteria 	Able to generate engineering designs with justification Able to justify the comparison with criteria		Committee consisting of (s), HoD, Mini-project
Apply formal decision- making tools to select optimal engineering design solutions for further development - GA	Able to identify but not able to choose optimum one	Able to identify optimum one but notable to use it	 Able to use optimum one but not able to justify 	Able to use optimum one with justification	15	coordinator and guide Each will evaluate for 15 marks and average of all the
Build models/ prototypes to develop diverse set of design solutions and develop drawings - IA	Able to choose the tool but not able to use it effectively	Able to use the tool but not able to generate alternatives	 Abletogenerate alternatives butnotableto justifythebest solution 	 Able to generate and justify the best solution 		three is the marks awarded

GA-GroupAssessment

IA - Individual Assessment

R3: Rubrics for evaluation by the guide(s): Before one week from the end of 6th semester of B.E.

Evaluation		Score/N	Marks		Total	Evaluated by
Criteria	Needs improvement (Poor) (2)	Acceptable (Average) (3)	Satisfactory (Good) (4)	Proficient (Excellent) (5)	Marks	
Identify engineering systems, variables, and parameters to solve the problems - IA	Engineering systems are identified but not clear. Variables, and parameters to solve the problems are not defined	Engineering systems are clear. Variables, and parameters to solve the problems are not defined	Engineering systems are identified. Variables, and parameters to solve the problems are partially defined	Engineering systems are identified. Variables, and parameters to solve the problems are completely defined		
Technical Knowledge and Awareness related to the Project -IA	Poor knowledge and no awareness related to project	Lacks sufficient knowledge and Awareness	 Fair knowledge and awareness related to the project 	Extensive knowledge and awareness related to the project	20	Guide(s)
Regularity and Attendance - IA	Irregular and inconsistent in work	Reports to the guide but lacks consistency	 Reports to the guide very often but not very consistent 			
Read, understand and interpret technical and non-technical information - GA	Able to identify non- technical information	Able to read technical and non-technical information, but could not understand and interpret	 Able to read, understand technical and non-technical information, but could not interpret 	Able to read, understand and interpret technical and non-technical information		

R4: Rubrics for SEE evaluation

Evaluation Criteria	Very poor (2)	Poor (4)	Average (6)	Good (8)	Very good (10)	Total marks	Evaluated by
Generate information through appropriate tests to improve or revise design - GA	Not able to identify suitable tests tobedone	Able bidentify butnotableto follow testing procedure	Able to follow testing procedures but not able to collect information	Able to collect information but not able to apply it for improvement	Able to apply information for the improvement		
Use appropriate procedures, tools and techniques to conduct experiments and collect data - GA	Not able to identify tools, techniques and procedures	Abletoidentify but notable to conduct experiments	Able to conduct experiments but not able to follow procedure	Able to follow procedure but not able to collect data	Able to collect data as per the standards		
Analyze data for trends and correlations, stating possible errors and limitations-GA	understand data	Able to understand but not able to analyze data	Able to analyze data but not able to correlate them	 Able to correlate but not able to identify errors and limitations 	Able to identify errors and limitations	50	External + Internal Examiners
Deliver effective oral presentations to technical and non- technical audiences - IA	Could not deliver effective presentations.	 Could not deliver presentation, but presentation was prepared and attempted. 	Able to deliver fair presentation but not able to answer to the audiences	Deliver effective presentations but able to answer partially to the audience queries.	 Deliver effective presentation and able to answer all queries of the audience. 		
Present results as a team, with smooth integration of contributions from all individual efforts—GA + IA	No Contribution from an individual to a team	Contributions from an individual to a team is minimal	Contributions from an individual to a team is moderate	A contribution from an individual to a team is good but not well groomed in team.	Contribution from an individual to a team is good and results in an integrated team presentation.		

GA-GroupAssessment IA - IndividualAssessment

Rubrics for Major Project Phase-I and II (VII+VIII semester)

SEMESTER VII

Rubrics for	Phase	Period (Duration)	Rubric #	Marks	Evaluation by
CIF.	Evaluation-I	Before one month from the start of 7 th	R1	15	Committee consisting of
CIE	Evaluation-II	semester of BE Program Before 15 days from the last working day of 7 th	R2	15	HOD/Nominee + Project Coordinator + Guide(s)
		semester of BE Program			
	Evaluation by guide	In the last week of working days	R3	20	Guide(s)
SEE	Semester End Examination	During SEE of 7 th semester of BE Program	R4	50	Committee consisting of HOD/Nominee + Project Coordinator + External Examiner

SEMESTER VIII

Rubrics for	Phase	Period (Duration)	Rubric #	Marks	Evaluation by
CIE	Evaluation-I	Before one month from the start of 8 th semester of BE Program	R5	15	Committee consisting of HOD/Nominee + Project Coordinator + Guide(s)
	Evaluation-II	Before 15 days from the last working day of 8 th semester of BE Program	R6	15	
	Evaluation by guide		R7	20	Guide(s)
SEE	Semester End Examination	During SEE of 8 th semester of BE Program	R8	50	Committee consisting of HOD/Nominee + Project Coordinator + External Examiner

R1. Synopsis presentation (Before one month from the start of 7th semester of BE): Total Marks of 15

Evaluation		Score/Marks		Total	Evaluation By
Criteria	Poor (Needs Improvement) (1)	Average (Acceptable) (3)	Very good (Proficient) (5)	Marks	
Motivation And Rationale behind the work	Less motivated and has less desire to achieve a goal, accomplish a task, or work Need for the process /product which offers viable solutions to accomplish a work towards expectations in a challenging and interesting area is not good	Moderately motivated and has some interest to achieve a goal, accomplish a task, or work Need for the process /product which offers viable solutions to accomplish a work towards expectations in a challenging and interesting area is okay and acceptable	Highly motivated and desirous to achieve a goal, accomplish a task, or work Need for the process /product which offers viable solutions to accomplish a work towards expectations in a challenging and interesting area is good	15	Committee consisting of HOD/Nominee + Project Coordinator + Guide(s) Each will evaluate for
Literature review	Less technical papers are reviewed and less relevant	Few technical papers are reviewed and moderately relevant	At least 3 technical papers from reputed journals are made and reviews are quite relevant to the project work		15 marks and average of all three is the marks awarded
Presentation	Slides contain some errors, Not legible, flow is okay, body language is minimal, Response to the audience questions and comments are not good	Slides are error free, flow is good, body language is acceptable, Responds to the audience questions and comments	Slides are error free, quite legible, flow is good, body language is good, Responds accurately to the audience questions and comments		

R2. Internal Evaluation (Before 15 days from the last working day of 7th semester of BE): Total Marks of 15

Evaluation		Score/Marks		Total	Evaluation By
Criteria	Poor (Needs Improvement) (1)	Average (Acceptable) (3)	Very good (Proficient) (5)	Marks	
Proposed design methodology	Division of problem into modules and but improper selection of design approaches and design methodology and not properly justified	Division of problem into modules and but improper selection of design approaches and design methodology and not properly justified	Division of problem into modules and good selection of design approaches, appropriate design methodology with proper justification		Committee consisting of HOD/Nominee + Project
Preliminary/C onceptual Design work	Very less efforts are made towards preliminary and conceptual design works to accomplish the work	Efforts are made towards preliminary and conceptual design works to accomplish the work but some are not clear	Preliminary and conceptual design works are carried and are in proper direction to accomplish the project work	15	Coordinator + Guide(s) Each will evaluate for 15 marks and
Presentation and Report	Slides are not organized, and Question-answer is poor, report has errors and not systematic	Slides are good but not neatly arranged, delivery is good, Question-answer is average Report is not organized systematically	Slides are neat, delivery is good, Question-answer is very good, gestures and body languages are perfect Report is organized, and is according to the specified format References and citations are appropriate		average of all three is the marks awarded

R3. Evaluation by the guide (Towards the end of 7th semester of BE): Total Marks of 20

Evaluation		Score/Marks		Total	Evaluation
Criteria	Poor (1)	Average (3)	Excellent (5)	Marks	Ву
Objectives and Feasibility study	Many possible objectives are left out and very few are stated Design steps are not feasible to accomplish all the objectives	Some objectives are stated clearly and some possible objectives are left out Design steps are less feasible to accomplish all the objectives	All the objectives are clearly and neatly stated Design steps to be followed to solve the defined problem are feasible to accomplish all the objectives		
Survey and Problem identification	Topics are surveyed randomly and less relevant to societal and environmental problem	Topics are surveyed and not fully relevant to society and environment problem	Extensive survey is made and socially and environmentally relevant problem is identified	20	Guide(s)
Involvement in the work and ability to work in team	Less involved in the work	Would have involved still more	Sincerely involved in the work and very hard working and has good interest		
Individual Contribution and Peer/Guide interaction	Lesser involvement and contribution Rarely met the guide and met on guide's call	Contributed to the work to some extent Met the guide for interaction and Sincere and obedient to the guide's call and suggestions	Good interaction and contributed in a big way Met the guide for interaction and Sincere and obedient to the guide's call and suggestions More frequently met the guide for interaction and Sincere and obedient to the guide's call and suggestions		

R4: SEE Evaluation for Project Phase-I (During SEE of 7th semester of BE): Total Marks of 50

Evaluation		Sco	re/Marks		Total	Evaluated by
Criteria	Needs improvement (Poor) (4)	Acceptable (Average) (6)	Satisfactory (Good) (8)	Proficient (Excellent) (10)	Marks	
Identification of Problem Domain and Detailed analysis of Feasibility Objectives	Moderate explanation of the purpose and need of the project Explanation of the specifications and the limitations of the existing systems not very satisfactory; limited information Only Some	Average explanation of the purpose and need of the project; Moderate study of the existing systems; collects some basic information Incomplete	Good explanation of the purpose and need of the project Collects a great deal of information and good study of the existing systems Good justification to	Detailed and extensive explanation of the purpose and need of the project All objectives of the		HOD/nomination + Project coordinator + External
and Methodology of Project Proposal	objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are not specified properly	justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	the objectives; Methodology to be followed is specified but detailing is not done	All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified Detailed and extensive explanation of the specifications and the limitations of the existing systems	50	examiner Each will evaluate for 50 marks and average of all three is the marks awarded
Design Methodology	Partial division of problem into modules and inappropriate selection of computing framework	Division of problem into modules but inappropriate selection of computing Framework	Division of problem into modules and good selection of computing framework Design methodology not properly justified	Division of problem into modules and good selection of computing framework Appropriate design methodology and		

Evaluation		Sco	re/Marks		Total	Evaluated by
Criteria	Needs improvement (Poor) (4)	Acceptable (Average) (6)	Satisfactory (Good) (8)	Proficient (Excellent) (10)	Marks	
	Design methodology not defined properly	 Design methodology not defined properly 		properly justified		
Planning of Project Work	Time frame not properly specified	 Time frame properly specified, but not being Followed 	 Time frame properly specified but being followed partly 	Time frame properly specified and being followed		
Presentation	Contents of presentations are appropriate but not well Arranged Eye contact with few people and unclear Voice	Contents of presentations are appropriate but not well Arranged Eye contact with few people and unclear Voice	Contents of presentations are appropriate but not well arranged Satisfactory demonstration, clear voice with good spoken language but eye contact not proper	Contents of presentations are appropriate and well arranged Proper eye contact with audience and clear voice with good spoken language		

R5: Project work progress review-I (Before one month from the start of 8th semester of BE): Total Marks of 15

Evaluation		Scor	e/Marks		Total	Evaluated by
Criteria	Needs improvement (Poor) (2)	Acceptable (Average) (3)	Satisfactory (Good) (4)	Proficient (Excellent) (5)	Marks	
Design methodology and planning of project work Description of Concepts and Technical	Division of problem into modules and improper selection of computing framework Design methodology not properly justified Time schedule is not clear Inappropriate explanation of the key concepts and poor description of the technical requirements of the project	Division of problem into modules and improper selection of computing framework Design methodology not properly justified Time schedule is specified Incomplete explanation of the key concepts and in-sufficient description of the technical requirements of the project	Division of problem into modules and good selection of computing framework Design methodology not properly justified, Time schedule is specified Complete explanation of the key concepts but insufficient description of the technical requirements of the project	Division of problem into modules and good selection of computing framework, Appropriate design methodology and properly justification Time frame properly specified Complete explanation of the key concepts and strong description of the technical requirements of the project	15	HOD (or nomination) + Project coordinator + Guide(s) Each will evaluate for 15 marks and average of all three is the marks awarded
Demonstration and presentation	Contents of presentations are not appropriate and Demonstration not satisfactory	Contents of presentations are appropriate but not well arranged, eye contact with few people and unclear Voice	Contents of presentations are appropriate but not well arranged, satisfactory demonstration, clear voice with good spoken language but eye contact not proper	Good demonstration of work so far carried- out, Contents of presentations are appropriate and well arranged, Proper eye contact with audience and clear voice with good spoken language		

R6: Project work progress review -II (Before 15 days from the last working day of 8th semester of BE): Total Marks of 15

Evaluation		Score	/Marks		Total	Evaluated
Criteria	Needs improvement (Poor) (2)	Acceptable (Average) (3)	Satisfactory (Good) (4)	Proficient (Excellent) (5)	Marks	by
Incorporation of Suggestions made in the previous review	All major changes are made as per modifications suggested during previous evaluation	All major changes are made as per modifications suggested during previous evaluation	Changes are made as per modifications suggested during previous evaluation and good justification	Changes are made as per modifications suggested during the previous evaluation and new innovations added		
Discussion and Conclusion	Results are not presented properly, Project work is not summarized and concluded Future extensions in the project are not specified	Results presented are not much satisfactory, Project work summary and conclusion not very appropriate Future extensions in the project are not specified	Results are presented in good manner, Project work summary and conclusion not very appropriate Future extensions in the project are specified		15	HOD (or nomination) + Project coordinato r + Guide(s) Each will evaluate
Demonstration and Presentation	Modules are not in proper working form that further leads to failure of integrated system, Contents of presentations are not appropriate and not well delivered Poor eye contact with audience and unclear voice	Modules are working well in isolation and properly demonstrated, Modules of project are not properly integrated, Contents of presentations are appropriate but not well delivered Eye contact with only few people and unclear voice	Each module working well and properly demonstrated, Integration of all modules not done and system working is not very satisfactory, Contents of presentations are appropriate and well delivered, Clear voice with good spoken language but less eye contact with audience			for 15 marks and average of all three is the marks awarded

R7: Evaluation by the guide (Towards the end of 8th semester of BE): Total Marks of 20

Evaluation		Score/	'Marks		Total	Evaluated
Criteria	Needs improvement (Poor) (2)	Acceptable (Average) (3)	Satisfactory (Good) (4)	Proficient (Excellent) (5)	Marks	by
Technical Knowledge gained through project work	Poor knowledge and no awareness related to project	Lacks sufficient knowledge and Awareness	Fair knowledge and awareness related to the project	Extensive knowledge and awareness related to the project		
Regularity and Attendance	Irregular and inconsistent in work	Reports to the guide but lacks Consistency	 Reports to the guide very often but not very consistent 	Reports to the guide regularly and consistent in work	20	
Incorporation of Suggestions made in the previous review	All major changes are made as per modifications suggested during previous evaluation	All major changes are made as per modifications suggested during previous evaluation	Changes are made as per modifications suggested during previous evaluation and good justification	Changes are made as per modifications suggested during the previous evaluation and new innovations added	20	Guide(s)
Organization and structure of Project Report	Project report not prepared according to the specified format, References and citations are not appropriate	Project report is according to the specified format but some mistakes, Insufficient references and citations	Project report is according to the specified format, References and citations are appropriate but not mentioned well	Project report is according to the specified format, References and citations are appropriate and well mentioned		

R8: SEE Evaluation for Project Phase-II (During SEE of 8th semester of BE): Total Marks of 50

Evaluation	Score			Total	Evaluation	
Criteria	Needs improvement (Poor) (2)	Acceptable (Average) (3)	Satisfactory (Good) (4)	Proficient (Excellent) (5)	Marks	Ву
Presentation	Contents of presentations are not appropriate and not well delivered, Poor eye contact with audience and unclear voice	Contents of presentations are appropriate but not well delivered, Eye contact with only few people and unclear voice	Contents of presentations are appropriate and well delivered, Clear voice with good spoken language but less eye contact with audience	Contents of presentations are appropriate and well delivered, Proper eye contact with audience and clear voice with good spoken language		
Designs and implementation	Proper design methodology is not followed resulting into poor design , No modern tools are used to implement, Work contributes very less to the world	Proper design methodology is followed, Design lacks, very less modern tools are used to implement, the work contributes to the world in little way	Proper design methodology is followed, Design is done but not perfect, few modern tools are used to implement, the work contributes to the world in some way	Proper design methodology is followed, Design is perfect, Modern tools are used to implement, the work contributes to the world in greater way	50	HOD/ nomination + Project coordinato r + External Examiner Each will evaluate
Results and Demonstration	Some of the defined objectives are achieved Modules are not in proper working form that further leads to failure of integrated system	All defined objectives are achieved Modules are working well in isolation and properly demonstrated Modules of project are not properly integrated	All defined objectives are achieved and working well and demonstrated Integration of all modules not done and system working is not very satisfactory	All defined objectives are achieved and evident from the results Each module working well and properly demonstrated All modules of project are well integrated and system working is accurate		for 50 marks and average of all three will be taken

Evaluation	Score					Evaluation
Criteria	Needs improvement (Poor) (2)	Acceptable (Average) (3)	Satisfactory (Good) (4)	Proficient (Excellent) (5)	Marks	Ву
Project report	Project report not prepared according to the specified format References and citations are not appropriate	Project report is according to the specified format but some mistakes In-sufficient references and citations	Project report is according to the specified format References and citations not mentioned well	Project report is according to the specified format References and citations are appropriate and well mentioned		
Viva - Voce	Answered few questions related to design, implementation and applications of project work	Answered some questions related to design, implementation and applications of project work	Answered 80% of the questions related to design, implementation and applications of project work	Answered all the questions related to design, implementation and applications of project work		

E. Quality of completed projects/working prototypes

At the end of the academic year, the project exhibition is conducted through which student project will be exhibited before expert committee. The committee members are chosen from industry, senior faculty of the department, and other department. The committee evaluates based on various parameters for award of prizes (first, second, and third).

In 2018-19, the "Project Expo-19" was organised for final year students. The total 22 projects participated and committee identified three projects for award of prizes. The following are the details of the project expo-19 as shown in table 2.10.

Table 2.10. Project award details for the academic year 2018-19

Sl. No.	Name of the Student	Name of the Project	Award
01	Vidyashree Udupi Suman herkal Anand Karnandi Subham Zanwar	Automatic Grading of Mangoes Using Deep Learning	First
02	Spoorthi M,, kumatagi Rajeshwari Oni Sharanamma A. Dodamani Shreya Naragund	Rasberry Pi based readers for Blind	Second
03	Aishwarya Kovalli Bhagyashree V. Pawar Ganga Hadagali Madhu Dodamani	Smart Vehicle	Third

In 2020-21, the "Project Expo-21" was organised for final year students. The total 25 projects participated and committee identified three projects for award of prizes. The following are the details of the project expo-21 as shown in table.

Table 2.11. Project award details for the academic year 2020-21

Sl. No.	Name of the Student	Name of the project	Award
01	Sushma K. Aishwarya C. Basavannevva D. Deepa S.	Smart Home Automation System	First
02	Pratima D. Anusha A. K. Poornima B. Prafulla M. H.	Smart Bottle Monitoring System	Second
03	Aishwarya A. Jotshna K. Laxmee M.	Insurance Fraud Detection using machine	Third

The following project is selected for funding by VTU, Belagavi in the academic year 2020-21, as shown in table 2.12.

Table 2.12. The financial supported project

Sl. No.	Name of the Student	Name of the project	Guide	Sanctioned Amount
01	Prathiksha P. Bhagyawant B. Vidyashri M. Kishore P.	Driver Less Car with End-Lane Detection	Dr. S. R. Patil	Rs. 5,000.00

F. Evidence of papers published/Awards received by projects

The following table 2.13. shows the list of student publications.

Table 2.13. Student paper publications

SI. No.	Name of the Faculty	Title of the Paper		International/ National	ISSN/ISBN	Vol. No., PP., Year, DOI, Scopus, WoS, DBLP, Google Scholar
1	S. R. Patil, Kishore P., Prathiksha P., Bhagyawant B., Vidyashri M.	A Review on 100-point Activity	International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)	International	2581-9429	8,4,47-50,2020, XX.082020/IJARSCT Google Scholar

2.2.4 Initiatives related to industry interaction (10)

A. Industry supported laboratories

The institute has the following industry attached laboratories:

- 1. BEC BOSCH Rexroth Centre for industrial automation In the center the students are trained towards industrial automation.
- 2. INTEL Intelligent Systems Laboratory Students are utilizing the lab facilities to do the course assignments and project works.
- 3. Nokia Innovation Lab The Simulation lab for next generation mobile networks.
- 4. IIPC (Industry institute partnership cell) The institute has IIPC through which some of the final year students get internships in industries. IIPC conducts activities like training programs from industry persons, Placement enhancement activities. Industry conclaves are organized to increase industry exposure to students.
- 5. CED (Centre for Entrepreneurship Development) Many training and awareness programs on Entrepreneurship Development are organized by CED at college level and our students are participating and gaining benefit.
- 6. STEP (Science and Technology Entrepreneurship Park) Incubation facility is provided by the Science and Technology Entrepreneurs Park (STEP) which works under the aegis of BEC. About 25 virtual incubates per year are utilizing the Technology Business Incubator (TBI) facilities in the following areas:
 - · Food processing
 - Textile (handloom and power loom)
 - · Building technology

The department also organizes entrepreneurship awareness programs, seminars/webinars and workshops in association with persons from industry and academia.

B. Industry involvement in the program design and curriculum

The experts from industry are involved in designing program curriculum as members of board of studies. Their suggestions are incorporated in the curriculum. The following table shows the list of industry experts.

Table 2.14. List of industry experts

Sl. No.	Academic Year	Name, Designation, and Address
		1. Mr. VIRUPAKSH. GUDAGUNTI,
		Technical Manager Automation
	2018-19	Prime Soft IP Solutions Pvt. Ltd., Bengaluru,
)1	and	Email id: virupaksh.sg@gmail.com, Ph: 9177725907
,1	2019-20	2. Smt. SHASHIKALA J. B.
		Senior Consultant, International Business Machines (IBM), Bengaluru,
		Email id: sharvind@in.ibm.com,
		Ph: 9902601188

Institute Marks: 10.00

		1. Dr. DEVIPRASAD M.
		Vice President, Robosoft Technologies Pvt. Ltd. Udapi, Karnataka.
		Email Id:dprasadm@gmail.com
		Ph. 9591429050
		2. Shri. SANTOSHKUMAR HANAJI
	2020-21	Co-founder, Nggawe Nirman Technologies Private Ltd. Bengaluru, Karnataka.
02	and	Email Id:santosh.hanaji@gmail.com
	2021022	Ph.No.: +91-9886300546
		3. Shri. CHANANABASAVARAJ RARAVI
		Technical Lead, Intel Technology Ltd.
		Bangalore - 560103
		Email Id: channabasavaraj.raravi@gmail.com
		Ph.No.: +91-9886300546
1	1	

2.2.5 Initiatives related to industry internship/summer training (10)

Institute Marks: 10.00

An initiative has been made by introducing internship in the curriculum for 1 credit instead of the seminar in 8th semester. The students are encouraged to take internship program during their semester break between 6th and 7th semesters. Faculty members give their guidelines, suggestions, and scope and contact details of an internship. They also help the students by interacting with the industrial experts, provide the students recommendation letters and other necessary supports. The alumni coordinator constantly interacts with alumni those who are working in the industries and request them to provide necessary guidelines and supports for their junior's internship. The students have to present a seminar in 8th semester on the work done during their internship and the evaluation done based on various parameters.

From the academic year 2018-19, the industry internship has been made mandatory for 175 credits scheme. There are several MoUs in Institution and department levels to fulfill this madatory requirement. The following list of MoUs are:

MoUs:

A. The MoUs associated with Institute/Programme are listed below:

- · Global edge technology.
- · Tata Consultancy Services.
- · New Age Incubation Center in Engineering Colleges through KBITS, Government of Karnataka.

B. The department has MoUs with various industries under which Internships, Placement/ Placement Trainings, SDPs, Technical Talks, etc., are conducted.

1. The MoUs associated with the programme

- Transsible, Mumbai.
- · Smartec iT Solutions, Hubli-Dharwad
- · Insystel Technology Solutions, Pune
- · Tech Fortune Technologies, Bengaluru
- · Gbuits Innovations Pvt. Ltd, Vijayapur

2. The MoUs associated with Institution

· Mind Vision Technologies Ltd., Bagalkot

The following table 2.15 shows Impact of MoUs.

Table 2.15.Impact analyssis of MoUs

Sl. No.	Academic Year	Industry Name and Address	No. of Students attended for Training/Internship	Impact
01	2018-19	Xcelerator Ninja Technology Pvt. Ltd., Bangalore	09	
02	2019-20	Xcelerator Ninja Technology Pvt. Ltd. , Bangalore	15	
02	2017-20	BSNL RTTC, Mysore	07	
		Drona Automations Pvt. Ltd. Bangalore	01	Improvement in Placement.
		Insystel Technology Pvt. Ltd. Solutions, Pune	26	All students are able to
		SmartKnower Technology Pvt. Ltd., Bangalore	04	undergo Internships.
03	2020-21	Mindvision Technologies Pvt. Ltd. Bagalkot	16	
		Sianom Technology Pvt. Ltd., Bangalore	05	
		SmarTec IT Solutions, Hubli	37	

Apart from improvement in placement, there are other intangible impacts mentioned below:

- Gain Valuable Work Experience
- · Have an Edge in the Job Market
- Transition into a Job
- Networking Opportunities
- Apply Classroom Knowledge
- Gain Confidence
- · Industry-Institution Partnership Cell (IIPC) is established at the institute level to identify and establish linkages with the industries/firms.
- Students of the programme will be deputed to carry out real time projects and undergo internship.

3 COURSE OUTCOMES AND PROGRAM OUTCOMES (175)

Total Marks 175.00

Define the Program specific outcomes

PSO1	To demonstrate the abilities to apply the basic science and engineering fundamentals to solve complex engineering problems in the society.
PSO2	To demonstrate the abilities to provide information and communication technology solutions using modern engineering and IT tools at affordable cost working as a team member.
PSO3	To exhibit ethical, social and professional responsibilities and engage in life long learning.

3.1 Establish the correlation between the courses and the Program Outcomes (POs) & Program Specific Outcomes (25)

Total Marks 25.00 Institute Marks : 25.00

No. of Core Courses: 6	C2 : 2	C3 : 2	C4 : 2

Note: Number of Outcomes for a Course is expected to be around 6.

Course Name :		C2 01	Course Year :	2018-2019
Course Name	Statements			
C2 01.1	Computer Organizatio	n - UIS314C		
Course Name :		C2 02	Course Year :	2018-2019
Course Name	Statements			
C2 02.1	-	f Almanidama - LUCACCC		
C2 02.1	Analysis and Design of	of Algorithms - UIS403C		
Course Name :		C3 01	Course Year :	2019-2020
Course Name	Statements			
C3 01.1	Database Managemer	nt Systems - UIS503C		
Course Name :		C3 02	Course Year :	2019-2020
	I			
Course Name	Statements			
C3 02.1	Web Programming - U	IIS608C		
Course Name :		C4 01	Course Year :	2020-2021
Course Name .		0401	Oddise real .	2020-2021
Course Name	Statements			
C4 01.1	Object Oriented Mode	ling and Design -UIS702C		
	I			
-				
Course Name :		C4 02	Course Year :	2020-2021
Course Name	Statements			
C4 02.1	Project Phase-II - UIS	806P		

Course Articulation Matrix

1 . course name : C201

Course	Statements	PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12	
C201.1	Computer (1 .	~	2	~	2	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
Average		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	

2 . course name : C202

Course	Statements	PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12	
C202.1	Analysis an	2	~	2	~	3	~	1	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
Average		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	

3 . course name : C301

Course	Statements	PO1		PO2		PO3		PO4		PO5		PO6		P07		PO8		PO9		PO10		PO11		PO12	:
C301.1	Database N	1	~	3	~	2	~	3	~	1	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
Average		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	

4 . course name : C302

Course	Statements	PO1		PO2		РО3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12	
C302.1	Web Progra	1	~	2	~	3	~	3	~	2	~	1	~	-	~	-	~	-	~	-	~	-	~	1	~
Average		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	

5 . course name : C401

Course	Statements	PO1		PO2		PO3		PO4		PO5		PO6		P07		PO8		PO9		PO10		PO11		PO12	
C401.1	Object Orie	1 .	~	3	~	3	~	2	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
Average		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	

6 . course name : C402

Course	Statements	PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12	:
C402.1	Project Pha	2	~	3	~	3	~	3	~	2	~	2	~	2	~	3	~	3	~	3	~	3	~	2	~
Average		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	

1 . Course Name : C201

Course	PSO1		PSO2	2	PSO3	
C201.1	1	~	3	~	2	~
Average	0.00		0.00		0.00	

2 . Course Name : C202

Course	PSO1		PSO	2	PSO	3
C202.1	1	~	3	~	1	~
Average	0.00		0.00		0.00	

3 . Course Name : C301

Course	PSO1		PSO2	2	PSO3		
C301.1	1	~	3	~	1	~	
Average	0.00		0.00		0.00		

4 . Course Name : C302

Course	PSO1		PSO	2	PSO3	3
C302.1	1	~	3	~	1	~
Average	0.00		0.00		0.00	

5 . Course Name : C401

Course	PSO1		PSO	2	PSO3	
C401.1	1	~	3	~	1	~
Average	0.00		0.00		0.00	

6 . Course Name : C402

Course	PSO1		PSO2		PSO3	
C402.1	1	~	3	~	2	~
Average	0.00		0.00		0.00	

Program Articulation Matrix

Course	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C201.1	1	2	2	2	0	0	0	0	0	0	0	1
C201.2	2	2	3	2	0	0	0	0	0	0	0	1
C201.3	2	2	2	2	0	2	0	0	0	0	0	1
C201.4	2	2	2	2	0	0	0	1	0	0	0	1
C201.5	2	1	3	1	1	0	1	0	0	0	0	1
C201.6	1	1	2	1	1	3	1	0	0	0	0	1
C201.7	2	2	0	2	0	1	0	0	0	0	0	1
C201.8	1	2	2	2	2	1	1	0	2	1	1	1
C202.1	2	2	3	1	0	0	0	0	0	0	0	1
C202.2	2	2	3	2	0	0	0	0	0	0	0	1
C202.3	2	2	2	2	0	0	0	0	0	0	0	1
C202.4	2	2	0	0	0	0	0	0	0	0	0	1
C202.5	1	2	3	3	2	1	0	0	0	0	0	1
C202.6	2	2	2	2	0	0	0	0	0	0	0	1
C202.7	2	2	2	2	1	0	0	0	0	0	0	1
C202.8	0	3	0	0	0	0	0	0	0	3	0	2
C301.1	1	3	2	3	1	0	0	0	0	0	0	1
C301.2	2	2	2	0	0	0	0	0	0	0	0	1
C301.3	1	2	3	3	2	1	0	0	0	0	0	1
C301.4	1	2	3	3	1	0	0	1	0	0	1	1
C301.5	1	2	2	0	0	0	0	0	0	0	0	1
C301.6	1	2	3	3	2	2	0	0	0	0	0	1

C301.7	1	2	2	2	1	0	0	0	0	0	0	1
C301.8	2	2	2	1	2	0	0	0	0	0	0	1
C301.9	0	3	0	0	0	0	0	0	0	3	0	2
C302.1	1	2	3	3	2	1	0	0	0	0	0	1
C302.2	2	2	3	2	3	1	1	0	1	1	1	2
C302.3	1	2	3	2	2	0	0	0	1	0	1	0
C302.5	2	1	1	1	1	0	1	0	0	0	0	1
C302.6	2	2	2	1	2	0	0	0	0	0	0	1
C302.7	2	2	3	2	3	1	1	0	1	1	1	2
C302.8	0	3	0	0	0	0	0	0	0	3	0	3
C302.9	2	3	3	3	2	2	2	3	3	3	3	2
C302.10	1	1	2	0	1	1	1	0	0	0	0	1
C401.1	1	3	3	2	2	0	0	0	0	0	0	1
C401.2	2	2	2	2	1	1	0	0	0	1	0	1
C401.3	2	2	2	3	3	2	2	2	2	0	0	1
C401.4	1	2	1	2	1	2	3	1	3	2	3	3
C401.5	1	1	1	1	0	3	2	3	3	3	3	3
C401.6	1	3	3	3	1	0	0	1	0	0	0	1
C401.7	2	2	1	1	1	1	0	0	1	1	0	1
C401.8	1	1	3	3	2	2	0	1	1	0	0	1
C401.9	2	3	3	3	2	2	2	3	3	3	3	2
C402.1	2	3	3	3	2	2	2	3	3	3	3	2
C402.2	1	2	1	1	0	0	0	0	0	0	0	1
C402.3	1	2	2	3	1	0	1	1	0	0	0	1
C402.4	1	1	2	2	3	1	1	0	0	0	0	1
C402.5	2	3	0	1	3	3	0	3	1	3	0	1
C401.10	2	2	2	2	2	1	1	0	0	1	0	1
C302.4	3	2	2	2	2	2	0	0	0	0	0	2

Course	PS01	PSO2	PSO3
C201.1	1	3	2
C201.2	1	3	1

Control Cont			5 <u>.</u>	
C2015 1 3 1 C2017 2 2 0 C2018 2 0 0 C2018 2 1 0 C2018 2 1 1 C2021 1 1 1 C2022 2 1 1 C2023 2 2 2 C2024 2 1 1 C2025 1 1 1 C2026 2 2 1 C2027 2 3 1 C2028 1 3 3 C2021 2 1 1 C2022 2 1 1 C2023 1 3 1 C2024 1 1 1 C3011 1 1 1 C3012 1 1 1 C3013 1 1 1 C3014 1 1	C201.3	2	2	0
C201 6 1 3 1 C201 7 2 0 0 C201 8 2 1 1 C202 1 1 3 1 C202 2 2 1 4 C202 3 2 2 2 C202 4 2 1 1 C202 5 1 3 1 C202 6 2 2 4 C202 7 2 3 1 C202 8 1 3 3 C301 1 1 3 3 C301 2 2 1 1 C301 3 1 1 1 C301 4 1 2 1 C301 5 1 2 1 C301 6 1 1 1 C301 7 1 2 1 C301 8 1 1 1 C301 9 1 3 3 C302 1 <td< td=""><td>C201.4</td><td>1</td><td>2</td><td>1</td></td<>	C201.4	1	2	1
C201.7 2 2 1 C202.1 1 3 1 C202.2 2 1 1 C202.3 2 2 2 C202.4 2 1 1 C202.8 1 3 1 C202.8 2 2 1 C202.8 1 3 1 C202.8 1 3 1 C301.1 1 3 1 C301.2 2 2 1 C301.3 1 3 1 C301.4 1 3 1 C301.5 1 2 1 C301.6 1 1 1 C301.7 1 2 1 C301.8 1 1 1 C302.1 3 3 3 C302.1 1 3 3 C302.2 2 1 1 C302.3 <td< td=""><td>C201.5</td><td>1</td><td>3</td><td>1</td></td<>	C201.5	1	3	1
C201.6 2 1 C202.1 1 3 1 C202.2 2 1 1 1 C202.3 2 2 2 C202.4 2 1 1 1 C202.5 1 3 1 1 C202.6 2 2 1 1 C202.7 2 3 1 1 C202.8 1 3 3 3 C301.4 1 3 1 1 C301.5 1 3 1 1 C301.5 1 2 1 1 C301.6 1 1 1 1 C301.7 1 2 1 1 C301.8 1 1 1 1 C301.9 1 3 3 3 C301.7 1 2 1 1 C301.8 1 1 3	C201.6	1	3	1
C202.1 1 3 1 C202.2 2 1 1 C202.3 2 2 2 C202.4 2 1 1 C202.5 1 3 1 C202.6 2 2 1 C202.7 2 3 1 C202.8 1 3 3 C301.1 1 3 1 C301.2 2 2 1 C301.3 1 3 1 C301.4 1 2 1 C301.5 1 2 1 C301.6 1 1 1 C301.7 1 2 1 C301.8 1 1 1 C301.9 1 3 3 C301.8 1 1 1 C301.8 1 1 1 C301.9 1 3 3 C302.1 1 2 1 C302.2 2 3 1	C201.7	2	2	0
C202.2 2 1 1 1 1 1 1 1 1 2 2 2 2 2 1 2 1 1 2 1 <td>C201.8</td> <td>2</td> <td>2</td> <td>1</td>	C201.8	2	2	1
C202.3 2 2 C202.4 2 1 C202.5 1 3 1 C202.6 2 2 1 C202.7 2 3 1 C202.8 1 3 3 C301.1 1 3 1 C301.2 2 2 1 C301.3 1 3 1 C301.4 1 2 1 C301.5 1 2 1 C301.6 1 1 1 C301.7 1 2 1 C301.8 1 1 1 C301.9 1 3 3 C302.1 1 3 1 C302.2 2 3 1 C302.3 1 2 1 C302.4 3 3 2 C302.5 2 2 1 C302.6 1 3 <td< td=""><td>C202.1</td><td>1</td><td>3</td><td>1</td></td<>	C202.1	1	3	1
C202.4 2 1 1 C202.5 1 3 1 C202.6 2 2 1 C202.7 2 3 1 C202.8 1 3 3 C301.1 1 3 1 C301.2 2 2 1 C301.3 1 3 1 C301.4 1 2 1 C301.5 1 2 1 C301.6 1 1 1 C301.7 1 2 1 C301.8 1 1 1 C301.9 1 3 3 C302.1 1 3 3 C302.1 1 3 1 C302.2 2 3 1 C302.2 2 3 1 C302.5 2 2 1 C302.6 1 3 2 C302.6 1 3 2	C202.2	2	1	1
C202.5 1 3 1 C202.6 2 2 1 C202.7 2 3 1 C202.8 1 3 3 C301.1 1 3 1 C301.2 2 2 1 C301.3 1 3 1 C301.4 1 2 1 C301.5 1 2 1 C301.6 1 1 1 C301.7 1 2 1 C301.8 1 1 1 C301.9 1 3 3 C302.1 1 3 1 C302.2 1 3 1 C302.2 2 3 1 C302.3 1 2 1 C302.4 3 3 2 C302.5 2 2 1 C302.6 1 3 2	C202.3	2	2	2
C2026 2 1 C2027 2 3 1 C2028 1 3 3 C301.1 1 3 1 C301.2 2 1 1 C301.3 1 3 1 C301.4 1 2 1 C301.5 1 2 1 C301.6 1 1 1 C301.7 1 2 1 C301.8 1 1 1 C301.9 1 3 3 C302.1 1 3 1 C302.2 2 3 1 C302.3 1 2 1 C302.4 3 3 2 C302.5 2 2 1 C302.6 1 3 2	C202.4	2	1	1
C202.7 2 3 1 C202.8 1 3 3 C301.1 1 1 1 C301.2 2 1 1 C301.3 1 3 1 1 C301.4 1 2 1 1 C301.5 1 2 1 1 C301.6 1 1 1 1 C301.7 1 2 1 1 C301.8 1 1 1 1 C301.9 1 3 3 3 C302.1 1 3 1 1 C302.2 2 3 1 1 C302.3 1 2 1 1 C302.4 3 3 2 C302.5 2 2 1 1 C302.6 1 3 2 3	C202.5	1	3	1
C202.8 1 3 3 C301.1 1 3 1 C301.2 2 1 1 C301.3 1 3 1 C301.4 1 2 1 C301.5 1 2 1 C301.6 1 1 1 C301.7 1 2 1 C301.8 1 1 1 C301.9 1 3 3 C302.1 1 3 1 C302.2 2 3 1 C302.3 1 2 1 C302.4 3 2 C302.5 2 2 1 C302.6 1 3 2	C202.6	2	2	1
C301.1 1 C301.2 2 C301.3 1 C301.4 1 C301.5 1 C301.6 1 C301.7 1 C301.8 1 C301.9 1 C302.1 1 C302.2 2 C302.3 1 C302.4 3 C302.5 2 C302.6 1 C302.7 1 C302.8 1 C302.9 1 C302.1 1 C302.2 2 C302.3 1 C302.4 3 C302.5 2 C302.6 1	C202.7	2	3	1
C301.2 2 1 C301.3 1 3 1 C301.4 1 2 1 C301.5 1 2 1 C301.6 1 1 1 C301.7 1 2 1 C301.8 1 1 1 C301.9 1 3 3 C302.1 1 3 1 C302.2 2 1 1 C302.3 1 2 1 C302.4 3 2 1 C302.5 2 2 1 C302.6 1 3 2	C202.8	1	3	3
C301.3 1 C301.4 1 C301.5 1 C301.6 1 C301.6 1 C301.7 1 C301.8 1 C301.9 1 C302.1 1 C302.1 1 C302.10 1 C302.2 2 C302.3 1 C302.4 3 C302.5 2 C302.6 1 C302.6 1	C301.1	1	3	1
C301.4 1 2 1 C301.5 1 2 1 C301.6 1 1 1 C301.7 1 2 1 C301.8 1 1 1 C301.9 1 3 3 C302.1 1 3 1 C302.2 2 1 1 C302.2 2 3 1 C302.4 3 2 2 C302.5 2 2 1 C302.6 1 3 2	C301.2	2	2	1
C301.5 1 2 1 C301.6 1 1 1 C301.7 1 2 1 C301.8 1 1 1 C301.9 1 3 3 C302.1 1 3 1 C302.10 1 2 1 C302.2 2 3 1 C302.3 1 2 1 C302.4 3 2 C302.5 2 2 1 C302.6 1 3 2	C301.3	1	3	1
C301.6 1 1 1 C301.7 1 2 1 C301.8 1 1 1 C301.9 1 3 3 C302.1 1 3 1 C302.10 1 2 1 C302.2 2 3 1 C302.3 1 2 1 C302.4 3 2 C302.5 2 2 1 C302.6 1 3 2	C301.4	1	2	1
C301.7 1 2 1 C301.8 1 1 1 C301.9 1 3 3 C302.1 1 3 1 C302.10 1 2 1 C302.2 2 3 1 C302.3 1 2 1 C302.4 3 2 C302.5 2 1 C302.6 1 3 2	C301.5	1	2	1
C301.8 1 1 1 C301.9 1 3 3 C302.1 1 3 1 C302.10 1 2 1 C302.2 2 3 1 C302.3 1 2 1 C302.4 3 2 C302.5 2 1 C302.6 1 3 2	C301.6	1	1	1
C301.9 1 3 3 C302.1 1 3 1 C302.10 1 2 1 C302.2 2 3 1 C302.3 1 2 1 C302.4 3 2 C302.5 2 2 1 C302.6 1 3 2	C301.7	1	2	1
C302.1 1 3 1 C302.10 1 2 1 C302.2 2 3 1 C302.3 1 2 1 C302.4 3 2 C302.5 2 2 1 C302.6 1 3 2	C301.8	1	1	1
C302.10 1 2 1 C302.2 2 3 1 C302.3 1 2 1 C302.4 3 2 C302.5 2 2 1 C302.6 1 3 2	C301.9	1	3	3
C302.2 2 3 1 C302.3 1 2 1 C302.4 3 2 C302.5 2 1 C302.6 1 3 2 C302.6 1 2	C302.1	1	3	1
C302.3 1 C302.4 3 C302.5 2 C302.6 1 3 2 C302.6 2 2 1 2 2 3 2	C302.10	1	2	1
C302.4 3 2 C302.5 2 2 1 C302.6 1 3 2	C302.2	2	3	1
C302.5 2 1 C302.6 1 3 2	C302.3	1	2	1
C302.6 1 3 2	C302.4	3	3	2
	C302.5	2	2	1
02007	C302.6	1	3	2
C302.7 2 3	C302.7	2	3	1

C302.8	1	3	3
C302.9	1	3	2
C401.1	1	3	1
C401.10	1	2	1
C401.2	1	2	1
C401.3	1	2	1
C401.4	1	2	1
C401.5	1	3	2
C401.6	1	2	1
C401.7	1	2	1
C401.8	1	3	1
C401.9	1	3	2
C402.1	1	3	2
C402.2	1	3	1
C402.3	1	2	1
C402.4	1	3	1
C402.5	1	3	3

3.2 Attainment of Course Outcomes (75)
Total Marks 75.00

Institute Marks: 10.00

Describe different assessment tools (semester end examinations, mid-semester tests, laboratory examinations, student portfolios etc.) to measure the student learning and hence attainment of course outcomes. (Student portfolio is a collection of artifacts that demonstrate skills, personal characteristics and accomplishments created by the student during study period.)

The process adopted to map the assessment questions, parameters of assessment rubrics etc. to the course outcomes to be explained with examples. The process of data collection from different assessment tools and the analysis of collected data to arrive at CO attainment levels need to be explained with examples

Assessment Tools:

Continuous Internal Assessment (45 marks for theory courses, 50 marks for laboratory courses, projects and seminars) - CIE

A teacher compiles the data of continuous internal (I,II & III) assessment in his or her subject. The teacher then enters the marks through the online software provided by the institute. Three hard copies are signed, one for examination section, one for department and one for self.

Semester End Assessment (50 marks for all courses, 50 marks for laboratory courses, projects and seminars) - SEE

The data of semester end assessment of a subject is compiled by internal and external teacher. The teacher then enters the marks through the online software provided by the institute. One hard copy is signed and is submitted to the department. These records are maintained by examination section.

Assignments/Quizzes/MCQs/Group Works (for 5 marks, 10 marks from the academic year 2020-21)

Any or all of these may be used as decided by the respective course teacher. The teacher also decides the number of assignments, quizzes, MCQ based tests and group works during the semester.

Institute Marks: 65.00

Measuring Course Outcomes attained through Semester End Examinations (SEE)

Course outcomes of all courses of Information Science and Engineering programme are obtained for the assessment years.

The procedure useed to calculate CO attainment percentage and hence the levels is as below:

Step-1: COs are mapped on respective SEE question papers.

Step-2: The total marks are assigned to each CO is calculated.

Step-3: The total marks scored by student against each CO is calculated.

Step- 4: The CO attainment percentage is calculated as below:

Percentage Attainment of CO_i = (Marks scored by students for CO_i / Total marks assigned to CO_i) X 100

Where, i = 1, 2, 3.....number of COs

Step- 5: The following method has been adopted for Attainment Levels for Semester End Examination(SEE).

- Attainment Level 3: >=60%
- Attainment Level 2: >=40%
- Attainment Level 1: <40%

A sample evaluation of CO attainment with respect to SEE marks is given in the below table 3.1.

Table 3.1. Evaluation of CO attainment through SEE

SEE	Ques	tions	Marks	Marks	Marks	Marks	Marks	Marks	Marks	Marks	Marks	Marks	Marks	Marks
			COl	scored	CO2	scored	CO3	scored	CO4	scored	CO5	scored	CO6	scored
				by		by		by		by		by		by
				students		students		students		students		students		students
	Q.No.1	A.	8	7			UIN	IT-I		I				
	Q.1NO.1	B.	0	,	8	6								
		C.	4	3		0								
		D.												
	Q.No.2	A.			8	8								
	Q.2.10.2	B.			8	6								
		C.			4	2								
		D.												
							UN	T-II						
	Q.No.3	A.					8	6						
		B.					4	1						
		C.					8	6						
		D.												
	Q.No.4	A.					8							
		B.							8					
		C.							4					
		D.												
SEE	0.37 6		1				UNI	T-III	4.0					
	Q.No.5	A.							10 10					
		B. C.							10					
		D.												
	Q.No.6	A.							10	9				
	Q.110.0	B.							10	9				
		C.							10					
1		D.												
							UNI	T-IV						
	Q.No.7	A.									4			
		B.									10			
		C.									6			
		D.												
	Q.No.8	A.									20	15		
		B.												
		C.												
		D.												
Marks for COs			12	10	28	22	28	13	52	18	40	15	0	0
	nent (%)			.33		.57		.43		.62		.50		00
Attainme	ent Levels			3		3		2		1		1		1

Measuring Course Outcomes attained through Continuous Internal Examinations (CIE)

The procedure useed to calculate CO attainment percentage and hence the levels is as below:

Step-1: COs are mapped on respective SEE question papers.

Step-2: The total marks are assigned to each CO is calculated including assignment marks.

Step-3: The total marks scored by student against each CO is calculated.

Step- 4: The CO attainment percentage is calculated as below:

Percentage Attainment of CO_i = (Marks scored by students for CO_i / Total marks assigned to CO_i) X 100

Where, i = 1, 2, 3.....number of COs

Step- 5: The following method has been adopted for Attainment Levels for Continuous Internal Evaluation (CIE).

• Attainment Level 3: >=60%

• Attainment Level 2: >=40%

Attainment Level 1: <40%

A sample evaluation of CO attainment with respect to CIE marks is given in the below table 3.2.

	CIE	Ques	tions	Marks CO1	Marks scored by students	Marks CO2	Marks scored by students	Marks CO3	Marks scored by students	Marks CO4	Marks scored by students	Marks CO5	Marks scored by students	Marks CO6	Marks scored by students
	1	Q.No.1	A.	10	8										
			B.	5	5										
			C.												
		Q.No.2	A.	10											
			B.			5									
			C.												
		Q.No.3	A.			5	3								
			B.			5	4								
			C.			5	5								
	2	Q.No.1	A.					6	5						
			B.					4	2						
			C.					5	4						
		Q.No.2	A.							10	9				
			B.					5	4						
Table 3.2. Evaluation of CO attainment through CIE			C.												
		Q.No.3	A.							10					
			B.							5					
			C.												
	3	Q.No.1	A.									10	7		
			B.									5	4		
			C.												
		Q.No.2	A.											10	
			B.											5	
			C.												
		Q.No.3	A.											5	4
			B.											5	3
			C.											5	4
		ent(Marks		1	1	1	1	1	1	1	1	1	1		
		for COs		26	14	21	13	21	16	26	10	16	12	30	11
	Attainn	nent (%)		53.8	35	0.	62	0.	76	0.	38	0.	75	0	37
	Attainme	ent Levels		2			3		3		1	1	3		

Target and Attainment of all course COs using Continuous Internal Evaluation (CIE) is as shown in table 3.1.

CO - Course Outcome TGT - Target ATM - Attainment

Table 3.1. Target and Attainment of COs using Continuous Internal Evaluation (CIE)

Continuous Internal Evaluation (CIE)													
Course Code	C	D1	С	O2	С	О3	С	O4	С	05	С	O6	
	TGT	ATM	TGT	ATM	TGT	ATM	TGT	ATM	TGT	ATM	TGT	ATM	
	Semester 3												
C201.1	40	64	40	30	40	30	40	00	40	42.5	40	34	

							C -	INDA				
C201.2	40	37.50	40	20.5	40	54	40	46				
C201.3	50	88	50	51.5	50	41	50	89	50	00		
C201.4	40	36	40	36	40	43	40	35	40	25	40	48
C201.5	40	38.5	40	36	40	73.5	40	71.5	40	57		
C201.6	70	75.67	70	75.63								
C201.7	70	90.99	70	90.99	70	90.99	70	90.99				
C201.8	70	85.80	70	85.80	70	85.80	70	85.80				
	-				Semes	ter 4						
C202.1	40	43.5	40	41.5	40	83.5	40	67	40	50.5		
C202.2	40	43	40	25.5	40	35.5	40	66	40	65.5		
C202.3	50	78.5	50	46	50	72	50	55	50	55.5		
C202.4	40	42	40	46.5	40	51.2	40	57.2	40	65		
C202.5	60	50	50	42.5	40	33	50	43.5	40	40.5		
C202.6	70	90.13	70	90.13	70	90.13						
C202.7	70	83.87	70	83.87	70	83.87	70	83.87				
C202.8	50	55.8	50	67.2	50	64.5						
					Semes	ter 5						
C301.1	50	39	50	49.5	50	49.5	50	58.5	50	44	50	58
C301.2	50	61.2	50	63	50	66.5	50	67	50	66	50	50
C301.3	50	45	50	36	50	45	40	36	45	52		
C301.4	50	79	50	35	50	34.5	50	45.5	50	37		
C301.5	20	53.5	40	40.5	40	36	40	51.5				
C301.6	30	38	50	62.5	50	40.5	20	15.5	20	20		
C301.7	70	87.34	70	87.34	70	87.34	70	87.34				
C301.8	70	86.41	70	86.41	70	86.41	70	86.41				
C301.9	50	55.8	50	67.2	50	64.5						
					Semes	ter 6						
C302.1	50	50.5	60	58.5	50	55	70	71	70	77		
C302.2	40	98	40	38	40	87	40	61.5	40	57	40	48
C302.3	40	71.5	40	27.5	40	58	40	58.5	40	64.5	40	46
C302.4	50	47.5	50	75.5	50	54	50	62				
C302.5	50	51	50	53.5	50	42.5	50	80				
C302.6	70	91.68	70	91.68	70	91.68	70	91.68				
C302.7	70	87.76	70	87.76	70	87.76	70	87.76				
C302.8	50	62.5	50	67.43	50	62		-				
C302.9	70	90.23	70	90.23	70	90.23	70	90.23	70	90.23	70	90.23

C302.10	50	49	50	22	50	91.5	50	59				
					Semes	ter 7						
C401.1	40	74.5	40	46.5	40	58	40	53	40	00		
C401.2	40	64.5	40	68	40	58.5	40	49	40	74.5	40	76
C401.3	40	74.5	40	37.5	40	85.5	40	47	40	67.5	40	83.5
C401.4	50	50	50	28.5	50	60.5	50	46	50	65.5		
C401.5	40	46	40	56.5	40	29.5	40	64.5	40	58	40	31.5
C401.6	70	86.53	70	86.53	70	86.53						
C401.7	70	72.56	70	72.56	70	72.56	70	72.56	70	72.56	70	72.56
C401.8	70	92.02	70	92.02	70	92.02						
C401.9	70	90.89	70	90.89	70	90.89	70	90.89				
C401.10	40	88.5	40	39.5	40	46.5	40	40.5	40	51		
					Semes	ter 8						
C402.1	70	89.70	70	89.70	70	89.70	70	89.70				
C402.2	50	63	50	18	50	46	50	78.5	50	74.5	50	49.5
C402.3	40	79	40	40.5	40	75.5	40	52.5	40	64.5	40	88.5
C402.4	40	45	40	31	40	69.5	40	54.5	40	63		
C402.5	70	87.60	70	87.60	70	87.60	70	87.60				

Target and Attainment of all course COs using Semester End Examination (SEE) is as shown in table 3.2.

Table 3.2. Target and Attainment of COs using Semester End Examination (SEE)

			Se	emester I	End Ex	aminatio	n (SEE)				
C C-1-	•	CO1		CO2		CO3		CO4		05		CO6
Course Code	TGT	ATM	TGT	ATM	TGT	ATM	TGT	ATM	TGT	ATM	TGT	ATM
		1			Semes	ter 3	-		-			
C201.1	40	43	40	23	40	30	40	10	40	40	40	48
C201.2	40	45	40	22	40	65	40	51				
C201.3	50	70	50	53	50	46	50	23	50	34		
C201.4	40	34	40	23	40	62.5	40	27.5	40	43.5	40	59
C201.5	40	32	40	31	40	65	40	50	40	48		
		1			Semes	ter 4		1				
C202.1	50	61	50	42	50	73	50	35	50	41	50	46
C202.2	40	31	40	30	40	60	40	39				
C202.3	50	52	50	51	50	35	50	88	50	00		
C202.4	40	42	40	46	40	36	40	41.5	40	65		
C202.5	60	72	50	54	40	38	50	33	45	35		
C202.8	40	36.8	40	55.2	40	61						

					Semest	ter 5									
C301.1	50	55.5	40	49.75	40	40.75	40	45.25	40	55.5	40	55.5			
C301.2	40	60.5	40	55.2	40	53.8	40	42	40	43					
C301.3	50	59	50	63	50	55	40	38	45	39					
C301.4	50	58	50	64	50	47	50	18	50	16					
C301.5	20	00	40	58	40	45	40	49							
C301.6	30	58	50	46	50	59	20	30	20	00					
C301.9	40	32.6	40	42.6	40	46.8									
		Semester 6													
C302.1		Promoted due to pandemic													
C302.2					Pron	noted due	to pand	lemic							
C302.3		Promoted due to pandemic													
C302.4					Pron	noted due	to pand	lemic							
C302.5					Pron	noted due	to pand	lemic							
C302.8					Pron	noted due	to pand	lemic							
C302.9					Pron	noted due	to pand	lemic							
C302.10					Pron	noted due	to pand	lemic							
					Semest	ter 7									
C401.1	40	58	40	48	40	26	40	42	40	29					
C401.2	40	32	40	48	40	50	40	24	40	61	40	61			
C401.3	40	74	40	64	40	46	40	18	40	43	40	54			
C401.4	40	44	40	23	40	16	40	53	40	56					
C401.5	50	61	50	58	50	30	50	40	50	28	50	63			
C401.10	40	72	40	63	40	12	40	13	40	44					
					Semest										
C402.2	40	73	40	61	40	14	40	17	40	23	40	50			
C402.3	40	63	40	67	40	14	40	41	40	42	40	51			
C402.4	40	66	40	42	40	33	40	16	40	36					

Course Outcomes Attainment Levels for CIE and SEE are shown in below table 3.3.

Table 3.3. Course outcome attainmnet levels

Course			Attainment o	of COs - CIE	Ĭ.				Attainment	of Cos - SEI	Ĭ.				Average Atta	inment Levels		
Code	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
C201.1	3	1	1	0	2	1	2	1	1	1	2	2	2.5	1	1	0.5	2	1.5
C201.2	1	1	2	2	0	0	2	1	3	2	0	0	1.5	1	2.5	2	0	0
C201.3	3	2	2	3	0	0	3	2	2	1	1	0	3	2	2	2	0.5	0
C201.4	1	1	2	1	1	2	1	1	3	1	2	2	1	1	2.5	1	1.5	2
C201.5	1	1	3	3	2	0	1	1	3	2	2	0	1	1	3	2.5	2	0

C201.6 C201.7	3	3	۸															
C201.7		3	0	0	0	0	0	0	0	0	0	0	1.5	1.5	0	0	0	0
0201.7	3	3	3	3	0	0	0	0	0	0	0	0	1.5	1.5	1.5	1.5	0	0
C201.8	3	3	3	3	0	0	0	0	0	0	0	0	1.5	1.5	1.5	1.5	0	0
C202.1	2	2	3	3	2	0	3	2	3	1	2	2	2.5	2	3	2	2	1
C202.2	2	1	1	3	3	0	1	1	3	1	0	0	1.5	1	2	2	1.5	0
C202.3	3	2	3	2	2	0	2	2	1	3	0	0	2.5	2	2	2.5	1	0
C202.4	2	2	2	2	3	0	2	2	1	2	3	0	2	2	1.5	2	3	0
C202.5	2	2	1	2	2	0	3	2	1	1	1	0	2.5	2	1	1.5	1.5	0
C202.6	3	3	3	0	0	0	0	0	0	0	0	0	1.5	1.5	1.5	0	0	0
C202.7	3	3	3	3	0	0	0	0	0	0	0	0	1.5	1.5	1.5	1.5	0	0
C202.8	2	3	3	0	0	0	1	2	3	0	0	0	1.5	2.5	3	0	0	0
C301.1	1	2	2	2	2	2	2	2	2	2	2	2	1.5	2	2	2	2	2
C301.2	3	3	3	3	3	0	3	2	2	2	2	0	3	2.5	2.5	2.5	2.5	0
C301.3	2	1	2	1	2	0	2	3	2	1	1	0	2	2	2	1	1.5	0
C301.4	3	1	1	2	1	0	2	3	2	1	1	0	2.5	2	1.5	1.5	1	0
C301.5	2	2	1	2	0	0	0	2	2	2	0	0	1	2	1.5	2	0	0
C301.6	1	3	2	1	1	0	2	2	2	1	0	0	1.5	2.5	2	1	0.5	0
C301.7	3	3	3	3	0	0	0	0	0	0	0	0	1.5	1.5	1.5	1.5	0	0
C301.8	3	3	3	3	0	0	0	0	0	0	0	0	1.5	1.5	1.5	1.5	0	0
C301.9	2	3	3	0	0	0	1	2	2	0	0	0	1.5	2.5	2.5	0	0	0
C302.1	2	2	2	3	3	0	0	0	0	0	0	0	2	2	2	3	3	0
C302.2	3	1	3	3	2	2	0	0	0	0	0	0	3	1	3	3	2	2
C302.3	3	1	2	2	3	2	0	0	0	0	0	0	3	1	2	2	3	2
C302.4	2	3	2	3	0	0	0	0	0	0	0	0	2	3	2	3	0	0
C302.5	2	2	2	3	0	0	0	0	0	0	0	0	2	2	2	3	0	0
C302.6	3	3	3	3	0	0	0	0	0	0	0	0	3	3	3	3	0	0
C302.7	3	3	3	3	0	0	0	0	0	0	0	0	3	3	3	3	0	0
C302.8	3	3	3	0	0	0	0	0	0	0	0	0	3	3	3	0	0	0
C302.9	3	3	3	3	3	3	0	0	0	0	0	0	3	3	3	3	3	3
C302.10	2	1	3	2	0	0	0	0	0	0	0	0	2	1	3	2	0	0
C401.1	3	2	2	2	0	0	2	2	1	2	1	0	2.5	2	1.5	2	0.5	0
C401.2	3	3	2	2	3	3	1	2	2	1	3	3	2	2.5	2	1.5	3	3
C401.3	3	1	3	2	3	3	3	3	2	1	2	2	3	2	2.5	1.5	2.5	2.5
C401.4	2	1	3	2	3	0	2	1	1	2	2	0	2	1	2	2	2.5	0
C401.5	2	2	1	3	2	1	3	2	1	2	1	3	2.5	2	1	2.5	1.5	2
C401.6	3	3	3	0	0	0	0	0	0	0	0	0	1.5	1.5	1.5	0	0	0
C401.7	3	3	3	3	3	3	0	0	0	0	0	0	1.5	1.5	1.5	1.5	1.5	1.5
C401.8	3	3	3	0	0	0	0	0	0	0	0	0	1.5	1.5	1.5	0	0	0
C401.9	3	3	3	3	0	0	0	0	0	0	0	0	1.5	1.5	1.5	1.5	0	0
C401.10	3	1	2	2	2	0	3	3	1	1	2	0	3	2	1.5	1.5	2	0
C402.1	3	3	3	3	0	0	0	0	0	0	0	0	1.5	1.5	1.5	1.5	0	0
C402.2	3	1	2	3	3	2	3	3	1	1	1	2	3	2	1.5	2	2	2
C402.3	3	2	3	2	3	3	3	3	1	2	2	2	3	2.5	2	2	2.5	2.5
C402.4	2	1	3	2	3	0	3	2	1	1	1	0	2.5	1.5	2	1.5	2	0
C402.5	3	3	3	3	0	0	0	0	0	0	0	0	1.5	1.5	1.5	1.5	0	0

Sample copy of CO attainment for the course is as shown below:

	С	O Attainment (2	017-21 batch)	
NBA Course Code	:	C401.4		Attainment Levels:
Course Code	:	UIS068E		>=60 : Level 3
Course Name	:	Software Project	Management	>=40 : Level 2
Semester	:	7		<40 : Level 1
Academic Year	:	2020-21		
Attainment T	hro	ugh Continuous	nations(CIE)	
Course Outcomes:		Target (%)	Attainment (%)	Attainment Level
CO1	:	50	2	
CO2	:	50	28.5	1
CO3	:	50	60.5	3
CO4	:	50	46	2
CO5		50	65.5	3
Attainmen	t T	hrough Semeste	r End Examinati	ons(SEE)
Course Outcomes:		Target (%)	Attainment (%)	Attainment Level
CO1	:	40	44	2
CO2	:	40	23	1
CO3	:	40	16	1
CO4	:	40	53	2
CO5		40	56	2
Tot	tal A	Attainment (50%	6 CIE + 50% SE	E)
Course Outcomes:		Average Target	Average	Average
		(%)	Attainment (%)	Attainment Level
CO1	:	45	47	2
CO2	:	45	25.75	1
CO3	:	45	38.25	1
CO4	:	45	49.5	2
CO5		45	60.75	3

3.3 Attainment of Program Outcomes and Program Specific Outcomes (75)

Total Marks 75.00

Institute Marks: 10.00

3.3.1 Describe assessment tools and processes used for measuring the attainment of each Program Outcome and Program Specific Outcomes (10)

The PO and PSO attainment level for all the courses for 2018-19, 2019-20 and 2020-21 are carried out.

The expected level of attainment of each PO and PSO with course outcomes (CO) is given in section 3.3.2. The correlation which is qualitative in nature is further quantified into score by assigning weightage 3, 2 and 1. The level of attainment for individual PO and PSO is arrived at by taking a ratio of number of points to be scored for the individual PO and PSO to the total number of points to be scored in that course.

Attainment of POs and PSOs is based on the performance of individual student in various assessment tools used such as CIE, Assignments, Quizzes, Laboratories, Seminars, Projects. Each student gets an appropriate grade at the end of the semester which is a cumulative result of various assessment methods used. Hence the grades obtained by the students are considered for deciding the attainment of POs and PSOs. Considering the sum of grade points obtained by all the students in each course (subject) is calculated and compared with the most ideal situation of all students obtaining "S" grade(outstanding grade) and the ratio is depicted. This gives basis for the attainment of POs and PSOs. The attainment level of POs and PSOs is used for curriculum revision. The attainment level of each POs and PSOs for a particular batch of the programme is given in the table for the academic year 2018-19, 2019-20 and 2020-21.

The achievement level of each PO and PSO is calculated by the ratio of set values for all subjects in an academic year to the obtained value using the results of the students in SEE for all subjects in the same academic year.

The weightage 3, 2 and 1 represent high, medium and low correlation respectively. The high, medium and low correlation 3,2 and 1 are represented with the weightage of 4, 2 and 1 respectively. The total summation of all 3, 2 and 1 for each subject is calculated. The set value of PO_i and PSO_i for a particular subject is given by

$$PO_{Si} = \frac{\sum_{12} (No.of3) \times 3 + (No.of2) \times 2 + (No.of1) \times 1}{\sum_{i=1}^{12} (No.of3_i) \times 3 + (No.of2_i) \times 2 + (No.of1_i) \times 1}$$

Eq. 1

$$PSO_{si} = \frac{\sum_{i=1}^{4} (No.of3) \times 3 + (No.of2) \times 2 + (No.of1) \times 1}{\sum_{i=1}^{4} (No.of3_i) \times 3 + (No.of2_i) \times 2 + (No.of1_i) \times 1}$$

Eq. 2

The obtained value for each subject is calculated from the SEE results of students in that particular subject. The grades assigned for the students are S, A, B, C, D, E and F (10, 9, 8, 7, 5, 4 and 0). The multiplication factor to calculate achievement of PO_i and PSO_i is

$$\label{eq:Multiplication} \text{Multiplication Factor} = \frac{\textit{Actual points obtained in a subject for all students}}{\textit{Maximum points that can be obtained in a subject for all students}}$$

Eq. 3

$$(no.ofstudentsin\ Sgrade) \times 10 + (No.ofstudentsin\ Agrade) \times 9 +$$

$$\sum \frac{(No.ofstudentsin\ Bgrade) \times 8 + (No.ofstudentsin\ Cgrade) \times 7 + }{(No.ofstudentsin\ Dgrade) \times 5 + (No.ofstudentsin\ Egrade) \times 4 + }{(No.ofstudentsin\ Fgrade) \times 0}$$

$$\frac{(No.ofstudentsin\ Fgrade) \times 0}{S(10) \times No.ofStudents}$$

Eq. 4

The multiplication factor obtained from equation (4) is multiplied with the set value of PO_i and PSO_i , to obtain attainment value for a particular subject. The same procedure is repeated to obtain attainment values of PO_i and PSO_i of all subjects. The achievement level of PO_{ii} is calculated as the ratio of summation of obtained PO_i values to summation of set PO_{ii} values for all subjects in an academic year as per equation (5).

$$\underbrace{PO_{ai}}_{post} = \frac{\sum_{j=1}^{n} PO_{oi}}{\sum_{j=1}^{n} PO_{si}}$$

Eq. 5

Where j= 1 to n, where n=number of subjects

The following method has been adopted for Attainment Levels for POs.

- Attainment Level 3: >=60%
- Attainment Level 2: >=40%
- Attainment Level 1: <40%

3.3.2 Provide results of evaluation of each PO & PSO (65)

Institute Marks: 65.00

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C201.1	2	2	2	2	0	0	0	0	0	0	0	2

C201.2	3	3	3	0	0	0	0	0	0	0	0	0
C201.3	3	3	2	0	0	0	0	0	0	0	0	3
C201.4	2	2	2	2	0	0	0	2	0	0	0	2
C201.5	3	3	3	2	3	2	3	0	2	2	2	2
C201.6	3	3	3	3	3	0	3	0	0	0	0	3
C201.7	3	3	0	3	0	3	0	0	0	0	0	3
C201.8	3	3	3	3	3	3	3	3	3	3	3	3
C202.1	3	3	3	3	3	3	3	0	3	0	3	3
C202.2	2	2	2	0	0	0	0	0	0	0	0	0
C202.3	3	3	3	3	0	0	0	0	0	0	0	3
C202.4	3	3	0	0	0	0	0	0	0	0	0	3
C202.5	3	3	3	3	3	3	0	0	0	0	0	3
C202.6	3	3	3	3	0	0	0	0	0	0	0	3
C202.7	3	3	3	3	3	0	0	0	0	0	0	3
C301.1	3	3	3	3	3	0	3	0	3	3	3	3
C301.2	3	3	3	0	0	0	0	0	0	0	0	3
C301.3	3	3	3	3	3	3	0	0	0	0	0	3
C301.4	2	3	3	3	0	0	0	0	0	0	3	3
C301.5	3	3	3	0	0	0	0	0	0	0	0	3
C301.6	3	3	3	3	3	3	0	0	0	0	0	3
C301.7	3	3	3	3	3	0	0	0	0	0	0	3
C301.8	3	3	3	3	3	0	0	0	0	0	0	3
C302.1	3	3	3	3	3	3	0	0	0	0	0	3
C302.2	3	3	3	3	3	3	3	0	3	3	3	3
C302.3	3	3	3	3	3	0	0	0	3	0	3	3
C302.4	3	3	3	3	3	3	0	0	0	0	0	0
C302.5	3	3	3	3	3	3	3	0	3	3	3	3
C302.6	3	3	3	3	3	0	0	0	0	0	0	3
C302.7	3	3	3	3	3	3	3	0	3	3	3	3
C302.9	3	3	3	3	3	3	3	3	3	3	3	3
C302.10	3	3	3	0	3	3	3	0	0	0	0	3

C401.1	0	3	3	3	3	0	0	0	0	0	0	3
C401.2	3	3	3	3	3	3	0	0	0	3	0	3
C401.3	3	3	3	3	3	3	3	3	3	0	0	0
C401.4	3	3	2	3	3	3	0	3	3	3	3	3
C401.5	3	3	3	3	0	3	3	3	3	3	3	3
C401.6	0	0	0	3	3	0	0	0	0	3	3	3
C401.7	3	3	3	3	3	3	0	0	3	3	0	3
C401.8	3	3	3	3	3	0	0	0	0	0	0	0
C401.9	3	3	3	3	3	3	3	3	3	3	3	3
C401.10	3	3	3	3	3	3	3	0	0	3	0	3
C402.1	3	3	3	3	3	3	3	3	3	3	3	3
C402.2	3	3	3	3	0	0	0	0	0	0	0	3
C402.3	3	3	3	3	3	0	3	3	0	0	0	3
C402.4	2	3	3	3	3	3	3	0	0	0	0	3
C402.5	3	3	0	3	3	3	0	3	3	3	0	3
C202.8	0	3	0	0	0	0	0	0	0	3	0	3
C301.9	0	3	0	0	0	0	0	0	0	3	0	3
C302.8	0	3	0	0	0	0	0	0	0	3	0	3

PO Attainment Indirect

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Parent Feed	1	1	1	2	1	1	1	1	1	1	1	1
Alumni Fee	2	2	2	1	2	2	1	2	1	1	1	1
Exit Survey	3	3	3	3	3	3	3	3	3	3	3	3

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
InDirect Attainment	2	2	2	2	2	2	1.67	2	1.67	1.67	1.67	1.67
Direct Attainment	2.89	2.94	2.88	2.92	3	2.96	3	2.9	2.94	2.95	2.93	2.93

PSO Attainment

Course	PSO1	PSO2	PSO3
C201.1	2	2	2

		5 1.27.	
C201.2	3	3	3
C201.3	3	3	3
C201.4	2	2	2
C201.5	3	3	3
C201.6	3	3	3
C201.7	3	3	3
C201.8	3	3	3
C202.1	3	3	3
C202.2	3	3	2
C202.3	3	3	3
C202.4	3	3	3
C202.5	3	3	3
C202.6	3	3	3
C202.7	3	3	3
C301.1	3	3	3
C301.2	3	3	3
C301.3	3	3	3
C301.4	3	2	3
C301.5	3	3	3
C301.6	3	3	3
C301.7	3	3	3
C301.8	3	3	3
C302.1	3	3	3
C302.2	3	3	3
C302.3	3	3	3
C302.4	3	3	3
C302.5	3	3	3
C302.6	3	3	3
C302.7	3	3	3
C302.9	3	3	3
C302.10	3	3	3
C401.1	3	3	3

C401.2	3	3	3
C401.3	3	3	3
C401.4	3	3	3
C401.5	3	3	3
C401.6	3	3	0
C401.7	3	3	3
C401.8	3	3	3
C401.9	3	3	3
C401.10	3	3	3
C402.1	3	3	3
C402.2	3	3	3
C402.3	3	3	3
C402.4	3	3	3
C402.5	3	3	3
C202.8	0	3	3
C301.9	0	3	3
C302.8	0	3	3

PSO Attainment Indirect

Survey	PSO1	PSO2	PSO3
Parent Feedback Surve	1	1	1
Alumni Feedback Surv	3	3	3
Exit Survey	3	3	3

PSO Attainment Level

Course	PSO1	PSO2	PSO3
Direct Attainment	2.96	2.94	2.94
InDirect Attainment	2.33	2.33	2.33

4 STUDENTS' PERFORMANCE (100)

Total Marks 86.52

Institute Marks:

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2021-22 (CAY)	2020-21 (CAYm1)	2019-20 (CAYm2)	2018-19 (CAYm3)	2017-18 (CAYm4)	2016-17 (CAYm5)	2015-16 (CAYm6)
Sanctioned intake of the program(N)	90	90	90	90	90	90	90
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	90	78	81	90	80	90	89
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	20	10	12	12	3	13	17
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	110	88	93	102	83	103	106

Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/ year of study)							
	(NI + NZ + N3)	l year	II year	III year	IV year				
2021-22 (CAY)	110								
2020-21 (CAYm1)	88	25							
2019-20 (CAYm2)	93	26	26						
2018-19 (CAYm3)	102	30	30	29					
2017-18 (LYG)	83	24	24	23	22				
2016-17 (LYGm1)	103	27	25	25	25				
2015-16 (LYGm2)	106	25	24	24	24				

Table 4.3

Year of entry	Total No of students admitted in the presum (NA + N2 + N2)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]						
rear of entry	Total No of students admitted in the program (N1 + N2 + N3)	l year	II year	III year	IV year			
2021-22 (CAY)	90							
2020-21 (CAYm1)	88	78						
2019-20 (CAYm2)	93	81	91					
2018-19 (CAYm3)	102	78	88	88				
2017-18 (LYG)	83	68	68	67	62			
2016-17 (LYGm1)	103	71	79	77	74			
2015-16 (LYGm2)	106	66	76	76	71			

4.1 Enrolment Ratio (20)

Total Marks 20.00

Institute Marks: 20.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2021-22 (CAY)	90	90	100.00
2020-21 (CAYm1)	90	78	86.67
2019-20 (CAYm2)	90	81	90.00

Average [(ER1 + ER2 + ER3) / 3]: 92.22

Assessment: 20.00

4.2 Success Rate in the stipulated period of the program (20)

Total Marks 7.32

4.2.1 Success rate without backlogs in any semester / year of study (15)

Institute Marks: 3.75

Item	Latest Year of Graduation, LYG (2017-18)	Latest Year of Graduation minus 1, LYGm1 (2016-17)	Latest Year of Graduation minus 2 LYGm2 (2015-16)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	83.00	103.00	106.00
Y Number of students who have graduated without backlogs in the stipulated period	22.00	25.00	24.00
Success Index [SI = Y / X]	0.27	0.24	0.23

Average SI [(SI1 + SI2 + SI3) / 3]: 0.25

Assessment [15 * Average SI]: 3.75

4.2.2 Sucess rate in stipulated period (5)

Institute Marks: 3.57

Item	Latest Year of Graduation, LYG (2017-18)	Latest Year of Graduation minus 1, LYGm1 (2016-17)	Latest Year of Graduation minus 2 LYGm2 (2015-16)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	83.00	103.00	106.00
Y Number of students who have graduated in the stipulated period	62.00	74.00	71.00
Success Index [SI = Y / X]	0.75	0.72	0.67

Average SI[(SI1 + SI2 + SI3) / 3]: 0.71

Assessment [5 * Average SI]: 3.57

Note: If 100% students clear without any backlog then also total marks scored will be 20 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

4.3 Academic Performance in Second Year (10)

Total Marks 10.00

Institute Marks: 10.00

Academic Performance	CAYm2 (2019-20)	CAYm3 (2018-19)	LYG (2017-18)
Mean of CGPA or mean percentage of all successful students(X)	7.08	7.04	7.36
Total number of successful students (Y)	91.00	88.00	68.00
Total number of students appeared in the examination (Z)	93.00	90.00	71.00
API [X * (Y/Z)]	6.93	6.88	7.05

Average API [(AP1 + AP2 + AP3)/3]: 6.95

Assessment [AverageAPI]: 10.43

4.4 Placement, Higher Studies and Entrepreneurship (30)

Total Marks 29.20

Institute Marks: 29.20

Item	LYG(2017-18)	LYGm1(2016-17)	LYGm2(2015-16)
Total No of Final Year Students(N)	67.00	77.00	76.00
No of students placed in the companies or goverment sector(X)	67.00	68.00	68.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	0.00	3.00	8.00
No of students turned enterpreneur in engineering/technology (Z)	0.00	0.00	0.00
Placement Index [(X+Y+Z)/N] :	1.00	0.92	1.00

Average Placement [(P1 + P2 + P3)/3]: 0.97

Assessment [30 * Average Placement]: 29.20

$\label{eq:Program Name of Program Name of Pr$

Assessment Year: 2020-21 (CAYm1)

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Aishwarya Bhairamatti	2BA17IS003	TATA Consultancy Services	TCSL/CT20203255365
2	Amogh B Viraktamath	2BA17IS009	TATA Consultancy Services	TCSL/CT20192645254
3	Atharva A Kulkarni	2BA17IS016	TATA Consultancy Services	TCSL/DT20206735331
4	Kaushal A Diwakar	2BA17IS030	TATA Consultancy Services	TCSL/DT20206829873
5	Kishor Parvatikar	2BA17IS031	TATA Consultancy Services	TCSL/CT20192669814
6	Neeta Biradar	2BA17IS038	TATA Consultancy Services	TCSL/CT20192670001
7	Pradeep P Guled	2BA17IS044	TATA Consultancy Services	TCSL/DT20206493177
8	Prathiksha P Chetana	2BA17IS047	TATA Consultancy Services	TCSL/CT20192653503

9	Rakshita S Kodekal	2BA17IS052	TATA Consultancy Services	TCSL/CT20192656431
10	Sneha B Angadi	2BA17IS063	TATA Consultancy Services	TCSL/DT20195177503
11	Supreeta Gudagunti	2BA17IS067	TATA Consultancy Services	TCSL/CT20192648891
12	Janhavi S Mokhashi	2BA17IS023	Nggawe Nirman Technologies	NNT/HR/2021/1006
13	Yashashree S Kabbin	2BA17IS081	TATA ELXSI	CINL851101KA1989PLC009968
14	Akshata P Petkar	2BA17IS007	Vayavva Labs	PTC040077
15	Abdur Rahman	2BA17IS001	Glassbeam Software	GB/SA/01/21
16	Akshata R Godakhindi	2BA17IS008	Nggawe Nirman Technologies	NNT/HR/2021/1039
17	Anusha Kulkarni	2BA17IS011	Nggawe Nirman Technologies	NNT/HR/2021/1051
18	Ashwini Halli	2BA17IS015	Nggawe Nirman Technologies	NNT/HR/2021/1005
19	Pratima Deshpande	2BA17IS049	Nggawe Nirman Technologies	NNT/HR/2021/1007
20	Nidhi S. Bengalore	2BA17IS039	HCL Technologies	HCL/HR/2021/30
21	Prathmesh Kalburgi	2BA17IS048	Infosys	HR/3T/1001713590/2122
22	Shreeshail Talikoti	2BA17IS060	Bitwise Solutions	BS/HR/2021/27
23	Anvitha G Vijapur	2BA17IS012	Aggne Global IT Services	AGIS/HR/2021/21
24	Aparna D	2BA17IS013	TATA Consultancy Services	TCSL/CT20192657563
25	Bhagyashree A	2BA17IS020	Aggne Global IT Services	AGIS/HR/2021/22
26	Poornima Bhavi	2BA17IS043	Mindtree Limited	ML/HR/2021/22
27	Priyanka S Sthavaramath	2BA17IS050	Aggne Global IT Services	AGIS/HR/2021/23
28	Shreya Bali	2BA17IS061	Aggne Global IT Services	AGIS/HR/2021/24
29	Sweeti Vandure	2BA17IS073	HCL Technologies	HCL/HR/2021/31
30	Vidyashri Mudagal	2BA17IS076	TATA Consultancy Services	TCSL/CT20192657564
31	Vijayalaxmi M Bevoor	2BA17IS078	Aggne Global IT Services	AGIS/HR/2021/25
32	Prafulla M Hiremath	2BA17IS045	Aggne Global IT Services	AGIS/HR/2021/26
33	Anirudh Athani	2BA17IS082	Infosys	HRD/3T/1002381107/21-22
34	Bhagyawant Biradar	2BA17IS021	Cognizant	15564226
35	Mrityunjay A Palled	2BA17IS035	Nggawe Nirman Technologies	NNT/HR/2021/1041
36	Shrihari Kulkarni	2BA17IS062	Nggawe Nirman Technologies	NNT/HR/2021/1042
37	Manjunath Pattanashetti	2BA17IS034	Nggawe Nirman Technologies	NNT/HR/2021/1040
38	Pallavi M Naik	2BA17IS040	SagarSoft Limited	SL/HR/2021/28
39	Vijaykumar Hanasi	2BA16IS090	Redbot Innovations Private Limited	RIPL/HR/2021/24
40	Manish Kumar	2BA16IS037	Redbot Innovations Private Limited	RIPL/HR/2021/25
41	Sudharani Toravi	2BA16IS078	Girmiti Software Private Limited	GSPL/HR/2021/01

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42	Rakesh P Naik	2BA17IS051	Girmiti Software Private Limited	GSPL/HR/2021/02
43	Basavaraj Gulappagol	2BA17IS017	Girmiti Software Private Limited	GSPL/HR/2021/03
44	Kalpana S Hosamani	2BA17IS028	Accenture	C10300426
45	Kalpita Devanaganvi	2BA17IS029	ATA Consultancy Services	TCSL/DT20206738594
46	Laxmee Medli	2BA17IS032	Girmiti Software Private Limited	GSPL/HR/2021/04
47	Parimala C	2BA17IS041	Girmiti Software Private Limited	GSPL/HR/2021/05
48	Sushma Bhavi	2BA17IS070	Girmiti Software Private Limited	GSPL/HR/2021/06
49	Swati S Arakeri	2BA17IS072	Infosys	HRD/3T/1002381404/21-22
50	Sahana	2BA17IS083	Girmiti Software Private Limited	GSPL/HR/2021/07
51	Allamaprabhu Yechhi	2BA18IS400	Herman Miller Furniture (India) Private Limited	CIN-U52333KA2007PTC042546
52	Jotshna Kulkarni	2BA17IS026	Cognizant	15687539 26
53	Suresh Angadi	2BA17IS069	Wipro	21091784
54	Renuka	2BA17IS054	EY Global Delivery Service	U7499KA2016PTC093751
55	Aishwarya Chiniwar	2BA16IS002	Infosys	HRD/3T/1002049228/21-22
56	Shahreen Shaikh	2BA17IS085	Infosys	HRD/3T//21-22/1001721304
57	Sushma S. Kudlannavar	2BA16IS083	Sprinklr india Private Limited	SIPL/HR/2021/04
58	Amulya V. Hunasigidad	2BA17IS010	Accenture	C10300425
59	Poornima Shirahatti	2BA17IS042	Accenture	C10090250
60	Shashank S Sunadholi	2BA17IS059	Accenture	Cl14072021
61	Spoorthi A Kankanameli	2BA17IS084	Accenture	CI100138055
62	Souharda R Maishale	2BA17IS064	Wipro	21064784
63	Yamanoor Mabrumkar	2BA17IS080	Infosys	HRD/3T/1002409492/21-22
64	Neha S Hemgire	2BA18IS401	SagarSoft Limited	SL/HR/2021/29
65	Aishwarya Ankalagi	2BA17IS004	Mphasis Limited	MPHTH_CD2021-3033
66	Akshata Patil	2BA17IS005	Wipro	22808884
67	Laxmi Dhulakhed	2BA16IS032	Capgemini	5557678/1113943

Assessment Year : 2019-20 (CAYm2)

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	P D Sarojini	2BA16IS043	Tech Mahindra	826315/1928927/ELTP
2	Bhoomika Kolaki	2BA16IS017	Conseillers en gestion et informatique	U72200KA1990PTC019138
3	Pooja Chavan	2BA16IS047	Larsen & Toubro	LTTS-Mysore/HR/327249
4	Amanullah Chimmagi	2BA16IS401	Conseillers en gestion et informatique	U72200KA1990PTC019138
5	Ashwini Badami	2BA16IS013	Cognizant	18959506
6	Manjunath Bhovivaddar	2BA16IS405	IBM	IBM/HR/2021/5

7	Shridhar K.	2BA16IS070	Tech Mahindra	839093/1945715/ELTP
8	Aishwarya Dalabhanjan	2BA15IS006	G&M Global Solutions	GM/HR/2020/4
9	monica	2BA15IS039	Deloitte	Del/HR/2021/26
10	Anita Ullegaddi	2BA16IS009	Tata Consultancy Services	TCSL/DT20184291285
11	Kotresh S Hosalli	2BA16IS028	Tata Consultancy Services	TCSL/DT20184289208
12	Laxmi Shirahatti	2BA16IS033	Tata Consultancy Services	TCSL/CT20192753364
13	Madhusudan S Hebsur	2BA16IS034	Tata Consultancy Services	TCSL/CT20182377621
14	Nidhi M Mahalmani	2BA16IS041	Tata Consultancy Services	TCSL/DT20184290363
15	Parvati Belagali	2BA16IS044	Tata Consultancy Services	TCSL/DT/20184291487
16	Priyanka B Sajjan	2BA16IS052	Tata Consultancy Services	TCSL/CT20182374714
17	Sakshi C Nadagoudra	2BA16IS059	Tata Consultancy Services	TCSL/DT20184285395
18	Swati Burji	2BA16IS085	Tata Consultancy Services	TCSL/CT20182372745
19	VijaylaxmiTalwade	2BA16IS093	Tata Consultancy Services	TCSL/CT20182374153
20	Revanasidda	2BA16IS057	Tata Consultancy Services	TCSL/CT20182372573
21	Akshata Kulkarni	2BA16IS008	Infosys	HRD/1000501212/20-21
22	Anupama Javalagi	2BA16IS011	Infosys	HRD1000501221/20-21
23	Nasrulla M Kokani	2BA16IS040	Infosys	HRD/3T/1000501231/20-21
24	Sanjan A Vadi	2BA16IS062	Infosys	HRD/3T/1000500657/20-21
25	Abhishek Nagappanavar	2BA16IS001	SLK Software Services	U72200KA2000PTCQ27503
26	Divya M Kadewadi	2BA16IS023	SLK Software Services	U72200KA2000PTCQ27503
27	Chaitra Nagraj D	2BA16IS019	ADP Private Limited	U72200TG2015PTC101168
28	Sanjeev S Kulkarni	2BA16IS063	Global Edge Software Limited	GESL/HR/2020/23
29	Varun K Sunagar	2BA16IS088	Global Edge Software Limited	GESL/HR/2020/30
30	Suresh Darga	2BA16IS080	Global Edge Software Limited	GESL/HR/2020/31
31	Shashank A Karehonn	2BA16IS066	International Business Machines	4254086
32	Shruti Bhanvi	2BA16IS072	International Business Machines	IN_150_263330BR_4404706
33	Sushma R Kerakalamatti	2BA16IS082	IQVIA	U74140KA2003PTC032950
34	Raghavendra Samprati	2BA16IS054	ABC	ABC20R3176
35	Prajwal N Deshpande	2BA16IS049	Cognizant	894612
36	Arpita M Kalburgi	2BA16IS012	Cognizant	14049222
37	Ashwini Mandi	2BA16IS014	Sasken	263494
38	Komal P Badnikai	2BA16IS027	Sasken	263492
39	Sanmati Hunshikatti	2BA16IS064	Sasken	263493
	1	1	1	1

40	Sneha Awaji	2BA16IS073	Sasken	263470
41	Sonal R Warkar	2BA16IS074	Sasken	263472
42	TejashwiniGaniger	2BA16IS086	Karnataka State Remote Sensing Application	KSRSAC/93/Contractual Appointment/2020
43	Kavita Nidasheshi	2BA16IS024	IQVIA	U74140KA2003PTC032950
44	Sushmita Pujar	2BA16IS084	Tata Consultancy Services	TCSL/CT20203366887
45	SpoortiVandakudri	2BA16IS075	Tata Consultancy Services	TCSL/DT20184290903
46	Aishwarya Joshi	2BA15IS009	SkyclipIT	29AAWC59663e12f
47	Krishna Mutalik Desai	2BA16IS029	Tata Consultancy Services	TCSL/DT20184285403
48	Anand Illal	2BA17IS402	L & T Technology Services Limited	LTTS-Mysore/HR/328490
49	Manthan Betageri	2BA17IS406	Test Yantra	U72200KA2007PTC044701
50	Nikita Maradur	2BA16IS042	Tech Mahindra	826315/1936675/ELTP
51	Akhila Naik	2BA17IS007	Shashi Exports PVT LTD	U18101DL2005PTC/38730
52	Vaishnavi Kulkarni	2BA17IS412	Terra Pay	U74140KA2020PTC133630
53	Tejashwini Ganganagoudar	2BA15IS079	Infinite Technology Soluutions	ICSL/Employee/11890/10399/22062021
54	Sushma Patil	2BA16IS081	NTT DaTa Sevices	41DB6006-4ADA-4655-889-81BA37E41A4A
55	Bhagyashree Patil	2BA16IS015	NTT DaTa Sevices	9451C694-9A62-4284-8778-BC74DAD4A999
56	Vinayak Gavaroji	2BA16IS094	AJAPRO Al Technologies	AJ/HSR/HR/05/2020
57	Shreya Tapashetti	2BA16IS069	accenture	C9276835
58	Keshav Desai	2BA16IS026	Mindtree	TN/80017782/21
59	Mallamma Patil	2BA16IS036	amdocs	2021-04-DVCI-P-M420597-2
60	Riyaben Patel	2BA16IS058	Tata Consultancy Services	TCSL/CT/20203463782/Bangalore
61	Laxmi Angadi	2BA16IS031	Conseillers en gestion et informatique	CGI/2021/HR/2021/25
62	ShrinidhiKulkarni	2BA16IS071	Tech Mahindra	793567/1840084/ELTP/2021/Rev I
63	BindushriNagajjanavar	2BA16IS018	IQVIA	U74140KA2003PTC032509
64	Rashmi Malaji	2BA16IS055	IQVIA	U74140KA2003PTC032509
65	chetan	2BA15IS092	Capgemini	4392012/715621
66	Ajit Rathod	2BA16IS005	Graphx	GX/HR/2022/08
67	Bhuvaneshwari Ukkali	2BA17IS403	GBUITS	GS/HR/2019/01
68	Jayashri Kuri	2BA17IS404	GBUITS	GS/HR/2019/02
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Assessment Year : 2018-19 (CAYm3)

S.No	Student Name	Enrollment No	Employee Name	Appointment No		
1	Mranalini M Patil	2BA15IS040	Tata Consultancy Services	TCSL/CT20172153241		
2	Parvati C Balulmath	2BA15IS046	Tata Consultancy Services	TCSL/CT20182374675		
3	Prakash V Tadasad	2BA15IS050	Tata Consultancy Services	TCSL/CT20172153435		

7/22, 1.20	1 IVI		C-NDA	
4	Aishwarya Mokhashi	2BA15IS011	Tata Consultancy Services	TCSL/CT20172153315
5	AkshataAladi	2BA15IS015	Tata Consultancy Services	TCSL/CT20172153301
6	AnnapoornaKotagi	2BA15IS017	Tata Consultancy Services	TCSL/CT20182499553
7	Jyoti Umesh Ambi	2BA15IS029	Tata Consultancy Services	TCSL/CT20182374681
8	Lakshmi B Kakkalameli	2BA15IS031	Tata Consultancy Services	TCSL/CT20172153236
9	Soumya P Munavalli	2BA15IS073	Tata Consultancy Services	TCSL/CT20182374692
10	Suman Sanjay Herkal	2BA15IS077	Tata Consultancy Services	TCSL/CT20172153271/1151634
11	Vidyashree G Udupi	2BA15IS087	Tata Consultancy Services	TCSL/CT20172153293
12	Ajey Ghale	2BA15IS014	Tata Consultancy Services	TCSL/CT20172153231
13	Abhishek P Bembalgi	2BA15IS004	Tata Consultancy Services	TCSL/CT20172153230
14	Sakshi S Sirdesai	2BA15IS064	Tata Consultancy Services	TCSL/CT20172153337
15	Usha Tukkappanavar	2BA15IS080	Tata Consultancy Services	TCSL/CT20172153318
16	Ambika	2BA15IS016	OPPO	OP/HR/2019/31
17	Bhagyshree Pawar	2BA15IS021	OPPO	OP/HR/2019/30
18	GollaleshM Budihal	2BA15IS028	Kodnest	KOD/HR/2019/15
19	Lakshmi Murteli	2BA15IS032	Kodnest	KOD/HR/2019/16
20	Bhumika S Kaddugol	2BA15IS022	Silverpeak	SP/HR/2019/26
21	Madhu H Patil	2BA15IS036	GlobalEdge	GESL/HR/2019/13
22	Aravind Gurav	2BA15IS018	Infosys	HRD/3T/19-20/13075146
23	Abhishek B Viraktamath	2BA15IS001	Infosys	HRD/3T/19-20/13075143
24	Aishwarya B Kovalli	2BA15IS005	Infosys	HRD/3T/19-20/13075144
25	Varadaneshwari Patil	2BA15IS091	Infosys	HRD/3T/19-20/13075159
26	Priyanka Yakkundi	2BA15IS054	Infosys	HRD/3T/19-20/13075155
27	Madhu Dodamani	2BA15IS035	Sasken	259328
28	Arun Marol	2BA15IS019	CMS	2019-BTM/BEC/04-418
29	Spoorti M Kumatgi	2BA15IS075	HireCraft	HR/HC/OFR/4418/2020
30	Nishat Anjum	2BA15IS043	Mindtree	TN/80014093/20
31	Pooja R Zingade	2BA16IS409	Mindtree	TN/80013627/20
32	Vinaykumar Mirakjkar	2BA13IS074	Cerner	U72200KA2014FTC13004
33	Seema Ramesh Badnur	2BA15IS065	Tata Consultancy Services	TCSL/CT20172153279
34	Shreya S Nargund	2BA15IS070	Tata Consultancy Services	TCSL/CT201721532476
35	Vaishnavi S Kulkarni	2BA15IS084	Tata Consultancy Services	TCSL/CT20172153276
36	Sneha S Yaranal	2BA15IS071	Thinq Techno Systems	ZH/HR/2019

5/22, 1.25	• •••		C - NDA	
37	Basavaraj Bandiwaddar	2BA16IS403	Meru Info Solutions	MIS/HR/2019/01
38	Keerthan V	2BA16IS406	Fiport	U72200KA2012PTC061974
39	Pushpak Bhosale	2BA16IS410	ICET IT Solutions	U72200KA2018PTC113014
40	Prema S Benur	2BA15IS052	IBM	1N_68_314292BR_4748728
41	Priyanka N Yaliwal	2BA15IS053	IBM	1N_68_314292BR_4748661
42	Shravya Shastri	2BA15IS068	Qualitest	U72900KA2008PTC047411
43	Vaibhavalaxmi R K	2BA15IS082	Accenture	C8511594
44	Shreya R Jainapur	2BA15IS069	Accenture	C8440086
45	Pragathi S Papanur	2BA15IS049	Accenture	C8429035
46	Vaishnavi Deshpande	2BA15IS083	Accenture	C8364475
47	Vinayak. Belagur	2BA15IS088	Appsource	APPS/09102019
48	Yeshwanth NMarkod	2BA15IS090	Coreflex Solutions pvt ltd	CFS/ OFF LTR / 2020-21 / B
49	Sunil Kumar	2BA15IS078	Cognizant	16395852
50	Subham	2BA15IS076	Ebix Technologies	ETPL/REC/PUN/2021/19
51	Anand Karanandi	2BA16IS400	HCL Technologies	L7414ODL1991PLC046369
52	Manjary Patil	2BA13IS024	GADGET	U72900KA2013PTC067784
53	Sneha Chama	2BA13IS019	Cognizant	14167155
54	Sharanamma D	2BA15IS066	Capgemini	3422216/856583
55	Aishwarya Halagali	2BA15IS007	SLK	SLK94039
56	Santosh Banagar	2BA15IS414	Karnataka State Electronics Development Corporation Limited	U75112KA19765GC003055
57	Rajeshwari Oni	2BA15IS057	DXC Technology	DXC/HR/2019/10
58	Dhaneshwari koppad	2BA15IS023	Maintec	EMP/AL/DBK/15112021/161
59	Jyoti Magi	2BA16IS405	GBUITS	GS/HR/2020/01
60	Deepa patted	2BA15IS024	GBUITS	GS/HR/2020/02
61	Basamma S Jigalur	2BA16IS402	GBUITS	GS/HR/2020/03
62	Sameenabanu Firozi	2BA16IS413	GBUITS	GS/HR/2020/04
63	Spoorti Atalatti	2BA16IS414	GBUITS	GS/HR/2020/05
64	Rahul Jalihal	2BA15IS413	GBUITS	GS/HR/2020/06
65	Sushma Antargond	2BA15IS419	GBUITS	GS/HR/2020/07
66	Medha C	2BA16IS407	Girmitti	GT/HR/2022/31
67	Rahul Sutar	2BA16IS411	Crimsonbeans	CB/HR/2022/07
68	M Jyoti	2BA15IS034	GBUITS	GS/HR/2020/08
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4.5 Professional Activities (20)

4.5.1 Professional societies/chapters and organizing engineering events (5)

Institute Marks: 5.00

A. Professional societies/chapter events

The following table 4.1, 4.2, and 4.3 show the list of various events organized by professional societies/chapters in the academic years 2018-19, 2019-20, and 2020-21 respectively.

Table 4.1. List of events for the AY 2018-19

Sl. No	Event Name	Event Date	Organized by	POs Addressed	PSOs Addressed
1		to	NOVUS'19 National level technical fest, BEC-IEEE WIE AG(SBA35261), Basaveshwar Engineering College, Bagalkot	All POs	All PSos
2	NOVUS'19	to	IEEE, Basaveshwar Engineering College, Bagalkot		All PSOs

Table 4.2. List of event for the AY 2019-20

SI. No	Event Name	Event Date	Organized by	POs Addressed	PSOs Addressed
1	TARANG	11-01- 2020	ISOI-BEC Student Chapter, Department of Electronics & Instrumentation Engineering, Basaveshwar Engineering College, Bagalkot	All POs	All PSOs

Table 4.3. List of event for the AY 2020-21

Sl. No	Event Name	Event Date	Organized by	POs Addressed	PSOs Addressed
1.	BRAINIACS	14-11-2021 to 15-11-2021	BEC-IEEE WIE AG(35261A), Basaveshwar Engineering College, Bagalkot	All POs	All PSOs
2.	WISION-2.0	07-03-2021	BEC-IEEE WIE AG(SBA35261), Basaveshwar Engineering College, Bagalkot	All POs	All PSOs
3.	INQUISITION	30-05-2021	BEC-IEEE WIE AG(SBA35261), Basaveshwar Engineering College, Bagalkot	All POs	All PSOs
4.	C test	29-06-2021	Basaveshwar Engineering College, Bagalkot	All POs	All PSOs
5.	IOT Based Monitoring Systems	22-05-2021	IEEE Information Theory Society (ITS) Bangalore Chapter	All POs	All PSOs
6.	Effective Resume Writing	22-05-2021	IEEE Student Branch (35261A), Basaveshwar Engineering College, Bagalkot	All POs	All PSOs
7.	Etiquettes of Writing Technical Thesis and Paper	18-07-2021	IEEE North Karnataka Sub Section in Collaboration with BEC(A) IEEE Student Branch (35261A), Basaveshwar Engineering College, Bagalkot	All POs	All PSOs

8.	Logitalker	27-06-2021	BEC-IEEE WIE AG(35261A), Basaveshwar Engineering College, Bagalkot	All POs	All PSOs
9.	Next –generation embedded systems and security	24-07-2021	IEEE Circuits and Systems(CAS) Society Bangalore Chapter	All POs	All PSOs
10.	Prompt 2021	06-08-2021 to 07-08-2021	AICTE sponsored IE student chapter, MIT Mysore	All POs	All PSOs

B. Engineering events

The following table 4.4, 4.5, and 4.6 show the list of various events organized by department in AY 2018-19, AY 2019-20, and AY 2020-21 respectively.

Table 4.4 List of various events for the AV 2018-10

			Table 4	.4. List of vario	us events for the AY	2018-19		
Sl. No.	From	To	Name of event	Organized Under	Coordinator(s)	Resource Person(s) & Address(es)	POs Addressed	PSOs Addressed
01	13-8-2018	30-8-2018	Pre-placement Training on Aptitude Aspects	RISE	Prof. P.K.Deshpande	Shri. Shivakumar Kakkalameli, Vagdevi, Free Lance Trainer	1 2 3 4 9 10 12	1, 2, 3
02	10-08-2018	18-8-2018	Induction Program		Dr. Shobha R. Patil	Shri Vinay Prabhakar, CEO, Technociate, Bengaluru	1,2, 3,4,9,10,12	1, 2, 3
03	12-1-2019	13-1-2019	SDP on Enterprise Application Development Using J2EE Part-I	RISE	Prof. P.K.Deshpande & Prof. S.N.Kugali	Prof. S.M.Magi, Dept. of MCA, BEC, Bagalkote Prof. M.S.Shirur, Dept. of MCA, BEC, Bagalkote	1,2, 3,4,9,10,12	1, 2, 3
04	19-1-2019	20-1-2019	SDP on Enterprise Application Development Using J2EE Part- II	RISE	Prof. P.K.Deshpande & Prof. S.N.Kugali	Prof. S.M.Magi, Dept. of MCA, BEC, Bagalkote Prof. M.S.Shirur, Dept. of MCA, BEC, Bagalkote	1,2, 3,4,9,10,12	1, 2, 3
05	02-2-2019	03-02-2019	Workshop on Android App Development	TEQIP-III	Prof. P.K.Deshpande & Prof. S.N.Kugali	Mr. Naveen Pujar, HESCOM, Hubli	1,2, 3,4,9,10,12	1, 2, 3
06	17-02-2019	18-02-2019	Workshop on Internet of Things (IOT)	RISE	Prof. P.K.Deshpande & Prof. S.N.Kugali	Prof. Rajendrakumar Math, BLDEA'S CET, Vijayapur Prof. Vijaykumar Sajjanar, BLDEA'S CET, Vijayapur	1,2, 3,4,9,10,12	1, 2, 3
07	22-02-2019	23-02-2019	SDP on Real Time Application Development and Deployment Cycle	TEQIP-III	Prof. P.K.Deshpande & Prof. S.N.Kugali	Mr, Shivaling Sannalli, Thoughtworks, Hyderbad	1,2, 3,4,9,10,12	1, 2, 3

08	26-04-2019	26-04-2019	Project Exhibition - PROJECT EXPO 2K19		Dr. L.B.Bhajantri	NA	1,2, 3,4,9,10,12	1, 2, 3
09	06-06-2019	13-06-2019	Pre-placement Training on Aptitude Aspects	RISE	Prof. P.K.Deshpande	Shri. Shivakumar Kakkalameli, Vagdevi PU College, Bagalkote	1 2 3 4 9 10 12	1, 2, 3
10	14-06-2019	15-06-2019	Pre-placement Training on Technical Aspects	RISE	Prof. P.K.Deshpande	Mrs. Ragini, Innovations Unlimited, Benguluru	1,2, 3,4,9,10,12	1, 2, 3
11	16-06-2019	16-06-2019	Pre-placement Training on Verbal Ability Aspects	RISE	Prof. P.K.Deshpande	Mr. Manjesh S.P, Innovations Unlimited, Benguluru	1,2, 3,4,9,10,12	1, 2, 3
12	17-06-2019	18-06-2019	Pre-placement Training on Technical Aspects	RISE	Prof. P.K.Deshpande	Mr. Nitin N. Rao, Outstanding 20, Musuru	1,2, 3,4,9,10,12	1, 2, 3

Table 4.5. List of various events for the AY 2019-20

Sl.	Da	te	Name of event	Organized	Coordinator(s)	Resource Person(s)	POs Addressed	PSOs Addressed
No.	From	То		Under	Coordinator(s)	& Address(es)	1 Os Mudresseu	1 503 Muli esseu
01	11-01-2020	11-1-2020	Techies & Cookies (Programming & Coding)	RISE	Dr.L.B.Bhajjantri & Prof. V.S.Patil	NA	1,2, 3,4,9,10,12	1, 2, 3
02	18-01-2020	19-01-2020	Pre-placement Training on Technical Aspects	RISE	Prof. P.K.Deshpande	Mr. Deepak Mehta, #include coding academy, Hubli	1,2, 3,4,9,10,12	1, 2, 3
03	15-02-2020	15-02-2020	Guest lecture on "Unlocking Internet to Lock the Things"	RISE	Dr.L.B.Bhajantri & Prof. V.S.Patil	Dr. Bharati.M. Arakeri Professor & Head, Dept. of AI & ML, BMSIT, Bangalore,	1,2, 3,4,9,10,12	1, 2, 3
04	17-05-2020	25-06-2020	Pre-placement Training on Technical Aspects	RISE	& Dr B M Reshmi	Mr. Deepak Mehta, #include coding academy, Hubli	1,2, 3,4,9,10,12	1, 2, 3
05	04-09-2019	04-09-2019	Guest lecture on Internet of Things (IOT)	RISE	Prof. P.K.Deshpande & Prof. S.N.Kugali	Dr. Shivamurthy G VTU Center for PG Studies, Bangalore Region, VIAT, Muddenahalli Chikkaballapur,		1, 2, 3
06	16-09-2019	16-09-2019	Pre-placement Training on Technical Aspects	RISE	Prof. P.K.Deshpande	Mr. Deepak Mehta, #include coding academy, Hubli	1,2, 3,4,9,10,12	1, 2, 3
07	24-10-2019	25-10-2019	SDP on Data Structure using C	RISE	Dr.L.B.Bhajjantri & Prof. V.S.Patil	Mr.Krishnanand and Harikiran Amphisoft Technologies Pvt Ltd Mysuru	1 2 2 4 0 10 12	1, 2, 3

08	30-05-2020	30-06-2020	Online quiz on Artificial Intelligence		Prof. P.K.Deshpande	NA	1,2, 3,4,9,10,12	1, 2, 3
09	30-05-2020	30-06-2020	Online quiz on Java Programming		Prof. P.S.Puranik	NA	1,2, 3,4,9,10,12	1, 2, 3
10	30-05-2020	30-06-2020	Online quiz on Computer Networks	RISE	Prof. D.I.Kalappanavar	NA		
11	30-05-2020	30-06-2020	Online quiz on Software Testing	RISE	Prof. G.B.Shettar	NA		
12	30-05-2020	30-06-2020	Online quiz on Micro Controller & Embedded Syatems	RISE	Prof. S.N.Kugali	NA		

Table 4.6. List of various events for the AY 2020-21

Sl.	Da	ate	Name of event	Organized	Coordinator(s)	Resource Person(s) &	POs Addressed	PSOs Addressed
No.	From	То	_	Under		Address(es)		
01	9.10.2020	20.10.2020	Pre-placement Training on Technical Aspects	RISE	Dr. B. M. Reshmi & Prof. P.K.Deshpande		1,2, 3,4,9,10,12	1, 2, 3
02	9.10.2020	20.10.2020	Pre-placement Training on Aptitude Aspects	RISE	Dr. B. M. Reshmi & Prof. P.K.Deshpande	Shri. Shivakumar Kakkalameli, Free lance Trainer		1, 2, 3
03	01-12-2020	01-12-2020	Webinar on "Ideation"	RISE	Dr. S.P.Bangarashetti & Prof. R. B.Math	Shri Aniruddha Kulkarni, USA	1,2, 3,4,9,10,12	1, 2, 3
04	08.11.2020	08.11.2020	Webinar on "How to Start a STARTUP"	RISE	Dr. S.P.Bangarashetti & Prof. R. B.Math	Mr. Mandar R. Mutalikdesai and Mr. Vinay Bhardwaj	1,2, 3,4,9,10,12	1, 2, 3
05	23-03-2021	23-03-2021	Technical talk on digital modernization and digital marketing	RISE	Dr. S. R. Patil & P.K.Deshpande	Mr. Mohammad Jalihal, Insystel Technology Solutions, Pune		1, 2, 3
06	19-03-2021	21-03-2021	SDP on ASP.NET & XML	RISE	Dr. S. R. Patil & P.K.Deshpande	Miss. Leena Aruluswamy, SmarTeciT Solutions, Hubli	1,2, 3,4,9,10,12	1, 2, 3
07	27-04-2021	04-05-2021	Online student development programme on "Advanced C Programming"	RISE	Dr. S. R. Patil Prof. Vijayalaxmi Patil Prof. P.K.Deshpande	Prof. S.S.Gujarathi, Dept. of MCA, BEC, Bagalkote	1,2, 3,4,9,10,12	1, 2, 3

08	11-05-2021	25-05-2021.	Online student development programme on "Revisiting C"	RISE	Prof. Vijayalaxmi	Prof. S.S.Gujarathi, Dept. of MCA, BEC, Bagalkote	1,2, 3,4,9,10,12	1, 2, 3
09	05-05-2021	26-06-2021	Pre-placement Training on Technical Aspects	RISE		1 * 1	1,2, 3,4,9,10,12	1, 2, 3

4.4.2 Publication of technical magazines, newsletters, etc. (5)

Institute Marks: 5.00

Every year the department has been publishing newletters that includes activities like seminars, quizes, conference/journal publications, SDPs, and FDPs. Also includes student achievements and participation in various state/national level events. These documents are properly designed and the newsletter of that academic year will be released. The following table 4.7 shows the list newsletters for various academic years.

Table 4.7. Newsletter details.

Sl. No.	Academic Year	Title of Newsletter	Editors	Month and Volume No.
			Prof. P. K. Deshpande	
			Mr. Abhishek Veeraktimath	
01	2018-19	NISE - 19	Mr. Araving Gurav	April and 1
			Ms. Aishwarya Halagali	
			Mr. Gnaga Hadagali	
			Prof. P. K. Deshpande	
			Mr. Madhusudhan	
02	2019-20	NISE - 20	Mr. Raghavendra Samprati	April and 2
			Ms. Pooja Chavan	
			Ms. Shreya Balli	
			Prof. P. K. Deshpande	
			Mr. Kishore Parvatikar	
03	2020-21	NISE - 21	Mr. Shrishail Talikoti	April and 3
			Mr. Anirudha Athani	
			Ms. Anusha kulkarni	

4.4.3 Participation in inter-institute events by students of the program of study (10)

Institute Marks: 10.00

The following tables 4.8, 4.9, and 4.10 show the list of student's participation in inter-institute events.

Table 4.8. Academic Year: 2018-19

Sl. No	Students Name	Event Name	Level	Award/Prize/Position/Excel Participation	Event Date	Organized by	
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1.	Abhishek Nagappanayar	Artificial Intelligence Workshop	National	Participation	02-3-2019 to 03-3-2019	Technophilia Solutions, Indian Institute of Technology, Hyderabad
2.	Abhishek Nagappanavar	Spectroscopy and Applications module of Engineering Chemistry course	National	Excelled	January to April-2018	QEEE Program, Indian Institute of Technology, Madras
3.	Prathamesh Kalburgi	Technical Fest Advitiya'18	National	Participation	28-9-2018 to 29-9-2018	ISE and CSE Department, K.L.E Institute of Technology Hubballi

Table 4.9. Academic Year: 2019-20

Sl. No	Student Name	Event Name	Level	Award/Prize/Position/ Excel/Recognition Participation	Event Date	Organized by
1.	Anusha Kulkarni	Introduction to Programming using Java	NA	Microsoft Technology Associate	12-02-2020	Microsoft Corporation
2.	Anusha Kulkarni	Android App Development	National	Participation	25-01-2020 to 26-01-2020	Ethical Edufabrica Pvt. Ltd., IISC, Bangalore
3.	Prafulla M. Hiremath	Introduction to Programming using Java	NA	Microsoft Technology Associate	12-02-2020	Microsoft Corporation
4.	Souharda R. Maishale	Android App Development	National	Participation	25-01-2020 to 26-01-2020	Ethical Edufabrica Pvt. Ltd., IISC, Bangalore
5.	Omkar Talawar	The Fundamentals of Digital Marketing	International	Awarded	29-05-2020	Google Digital Garage
6.	Atharva A.Kulkarni	Workshop on Industrial Automation and Industry 4.0	National	Participation	2020	BITS Pilani, K.K. Birla Goa Campus

Table 4.10. Academic Year: 2020-21

Sl. No	Students Name	Event Name	Level	Award/Prize/Position/ Excel/Recognition Participation	Event Date	Organized by
1.	Suman Totad	P2B#151 Python and Machine Learning Fundamentals		Participation	19-11-2021	Perfect Plan B Elearning Private Limited

		CDC D T . I "			22-10-2021	
2.	Suman Totad	GDG DevFest India 2021	National	Participation	to	Google Developer Groups
					24-11-2021	
3.	Laxmi Giddappanavar	Webinar on IOT Based Monitoring Systems	National	Participation	22-05-2021	IEEE Information Theory Society (ITS) Bangalore Chapter,AIT Bangalore
4.	Sumanth Angadi	Quiz on General Mathematics	National	Participation	22-05-2021	Department of Applied Science Sagar Institute of Research & Technology Bhopal, Sagar Institute of Research & Technology Bhopal
5.	Sumanth Angadi	Advanced Excel Workshop		Participation	21-03-2021	Mr. Jatan Shah Microsoft Certified Trainer Founder & CED, JS Academy
6.	Sumanth Angadi	Cyber Sanjivini Competition		Participation	07-08-2021	Surat City Police in Collaboration with Cyber Suraksha Setu
		TCS ION Career			02-10-2021	Mehul Mehta, Global
7.	Pragati Bulla	Edge-Young	National	Participation	to	Delivery Head-TCS ION,
		Professional			19-10-2021	Tata Consultancy Services
8.	Pragati Bulla	Quiz on Cyber Security	National	Participation	10-08-2021	Department of Computer Science and Engineering/Application, Mandsaur University, Mandsaur
9.	Pragati Bulla	Technical Fest "Advitiya 21": Fun	National	3 rd Position	05-07-2021 to	K.L.E Institute of Technology, Hubballi, K.L.E Institute of Technology,
		Tastic			06-07-2021	Hubballi
10.	Vinutana Devaraddi	Webinar on Next – generation embedded systems and security	National	Participation	24-07-2021	IEEE Circuits and Systems(CAS) Society Bangalore Chapter,AIT Bangalore
11.	Vinutana Devaraddi	Webinar on IOT Based Monitoring Systems	National	Participation	22-05-2021	IEEE Information Theory Society (ITS) Bangalore Chapter, AIT Bangalore
12.	Vinutana Devaraddi	Quiz on Cyber Security	National	Participation	10-08-2021	Department of Computer Science and Engineering/Application, Mandsaur University, Mandsaur
13.	Pooja S. Ullegaddi	TCS ION Career Edge-Young Professional	National	Participation	28-10-2021 to 11-11-2021	Mehul Mehta, Global Delivery Head-TCS ION, Tata Consultancy Services

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14.	Omkar K. Talawar	Online project competition Prompt 2021	State	Participation	06-08-2021 to 07-08-2021	Maharaja Institute of Technology, Mysore
15.	Prajwal K. Trivedi	Quiz on Point the C?	National	Participation	19-10-2021	JNTUK UCEV ACM Students Branch, JNTUK University College of Engineering Vizianagaram, Vizianagaram
16.	Pramod Malali	Quiz on General Mathematics	National	Participation	22-05-2021	Department of Applied Science Sagar Institute of Research & Technology Bhopal, Sagar Institute of Research & Technology Bhopal
17.	Pramod Malali	India IGF 2021 Quiz	National	Participation	2021	India Internet Governance Forum (IGF)
18.	Pramod Malali	Online Cyber Patriot Quiz	National	Participation	03-11-2021	Sahyadri College of Engineering and Management Mangalore.
19.	Pramod Malali	TCS ION Career Edge-Young Professional	National	Participation	19-10-2021 to 09-11-2021	Mehul Mehta, Global Delivery Head-TCS ION, Tata Consultancy Services
20.	Hrishikesh Deshpande	Learning Python	National	Participation	13-11-2021	Linked in Learning
21.	Akshay R. K.	Learning Python	National	Participation	15-11-2021	Linked in Learning
22.	AKShav K K	Learning Data Analytics	National	Participation	16-11-2021	Linked in Learning
23.	1 '	4.0 Tech Online Bootcamp	National	Participation	26-07-2021	Nxtwave
24.	Prateek Kadapatti, Kaushal Diwakar, Prathamesh Kalburgi	l I	National	Winner	01-08-2021 to 04-08-2021	MHRD

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

Total Marks 149.32

Sr. No	Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year		Date (Designated as Prof / Assoc. Prof.)	Initial Date of Joining	Association Type	At present working with the Institution (Yes / No)	Date of Leaving	IS HOD?
	Dr. S. R. Patil	AJOPP0934H	ME/M. Tech and PhD	10/03/2014	Image Processing	05	04	00	Professor	03/10/2014	04/05/2001	Regular	Yes		Yes

	5 6 5														
2	Dr. S. P. Bangarshetti	AHFPB5222M	ME/M. Tech and PhD	13/05/2013	Image Processing	09	03	00	Professor	01/03/2014	04/05/2001	Regular	Yes		No
3	Prof. P. V. Kulkarni	AFJPP7708N	M.E/M.Tech	11/06/2002	Database Systems	00	00	00	Associate Professor	01/10/2005	20/03/1998	Regular	Yes		No
4	Prof. P. S. Puranik	AJPPP2242K	M.E/M.Tech	26/02/2007	Web Technology	00	00	00	Associate Professor	29/02/2008	04/05/2001	Regular	Yes		No
5	Dr. L. B. Bhajantri	ACWPL8031E	ME/M. Tech and PhD	18/06/2015	Wireless Networks and Communications	10	04	00	Associate Professor	01/01/2018	04/10/2005	Regular	Yes		No
6	Prof. R. B. Math	ARUPM1086F	M.E/M.Tech	10/02/2009	Quality Management	02	00	00	Assistant Professor		03/10/2006	Regular	Yes		No
7	Prof. V. S. Patil	AUGPP4966Q	M.E/M.Tech	09/04/2012	Image Processing	03	00	00	Assistant Professor		02/08/2007	Regular	Yes		No
8	Prof. S. N. Kugali	BEGPK5667C	M.E/M.Tech	16/12/2008	Vehicular Adhoc Networks	01	00	00	Assistant Professor		25/02/2008	Regular	Yes		No
9	Prof. G. M. Patil	BNAPP8398G	M.E/M.Tech	18/04/2011	Computer Networks and Communications	00	00	00	Assistant Professor		06/09/2010	Regular	Yes		No
10	Dr. B. M. Reshmi	AECPR2429C	ME/M. Tech and PhD	02/01/2017	Medical Image Processing	4	02	01	Associate Professor	01/08/2006	28/09/1999	Regular	Yes		No
11	Prof. S. H. Rathod	AXBPR4804M	M.E/M.Tech	05/05/2016	Networks and Communications	00	00	00	Assistant Professor		03/09/2010	Regular	No	25/11/2020	No
12	Dr A. D. Devangavi	AHFPD8180L	ME/M. Tech and PhD	28/07/2018	Vehicular Adhoc Networks	00	00	00	Associate Professor	29/02/2008	16/11/2006	Regular	Yes		No
13	Prof. P. K. Deshpande	BGNPD4809G	M.E/M.Tech	09/04/2012	Algorithms and Databases	00	00	00	Assistant Professor		28/09/2011	Regular	Yes		No
14	Prof. D. I. Kalappanavar	ANPPK9979C	M.E/M.Tech	09/04/2012	Computer Networks	00	00	00	Assistant Professor		24/09/2012	Regular	Yes		No
15	Prof. G. B. Shettar	DXRPS1355H	M.E/M.Tech	08/05/2012	Software Testing and Computer Networks	00	00	00	Assistant Professor		21/09/2012	Regular	Yes		No
16	Prof. C. R. Shivanagi	COYPS3733J	M.E/M.Tech	05/04/2013	Image Processing	00	00	00	Assistant Professor		25/09/2012	Regular	Yes		No
17	Prof. M. R. Patil	BMKPP2146K	M.E/M.Tech	05/04/2013	Web Technology	00	00	00	Assistant Professor		01/01/2015	Regular	Yes		No

5.1 Student-Faculty Ratio (SFR) (20)

Total Marks 16.00

Institute Marks: 16

UG

No. of UG Programs in the Department 1

	Information Science and Engineering						
	CAY			CAYm1		CAYm2	
Year of Study		(2021-22)		(2020-21)		(2019-20)	
	Sanction Intake		Sanction Inta	ke Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	
2nd Year	90	9	90	12	90	12	
3rd Year	90	12	90	12	90	3	
4th Year	90	12	90	3	90	12	
Sub-Total	270	33	270	27	270	27	
Total	Total 303		297		297		
Grand ⁻	Total 303	3	297		297		

PG

No. of PG Programs in the De	epartment 0	
Grand Total		

SFR

No. of UG Programs in the Department 1

No. of PG Programs in the Department 0

Description	CAY(2021-22)		CAYm1 (2020-21)	CAYm1 (2020-21)		
Total No. of Students in the	303	Sum total of all (UG+PG)	297	Sum total of all (UG+PG)	297	Sum total of all (UG+PG)
Department(S)	students		students		students	
No. of Faculty in the Department(F)	16	F1	16	F2	17	F3
Student Faculty Ratio(SFR)	18.94	SFR1=S1/F1	17.47	SFR2=S2/F2	18.56	SFR3=S3/F3
Average SFR	18.32	SFR=(SFR1+SFR2+SFR3)/3				

F=Total Number of Faculty Members in the Department (excluding first year faculty)

Note: All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

- 1. Shall have the AICTE prescribed qualifications and experience.
- 2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
- 3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit

5.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY(2021-22)	16	0
CAYm1(2020-21)	16	0
CAYm2(2019-20)	17	0

Average SFR for three assessment years: 18.32

Assessment SFR: 16

5.2 Faculty Cadre Proportion (20) Total Marks 20.00

Institute Marks: 20.00

Year	Professors		Associate Professors		Assistant Professors	
Teal	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2021-22)	1.00	2.00	3.00	3.00	10.00	11.00
CAYm1(2020-21)	1.00	2.00	3.00	3.00	9.00	11.00
CAYm2(2019-20)	1.00	2.00	3.00	3.00	9.00	12.00
Average Numbers	1.00	2.00	3.00	3.00	9.33	11.33

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 10 : 20.00

5.3 Faculty Qualification (20) Total Marks 13.32

Institute Marks: 13.32

	x	Y	F	$FQ = 2 \times [(10X + 4Y) / F)]$
2021-22(CAY)	5	11	15.00	12.53
2020-21(CAYm1)	5	11	14.00	13.43
2019-20(CAYm2)	5	12	14.00	14.00

Average Assessment: 13.32

Total Marks 10.00

5.4 Faculty Retention (10)

Institute Marks: 10.00

Description	2020-21 (CAYm1)	2021-22 (CAY)
No of Faculty Retained	16	16
Total No of Faculty	17	17
% of Faculty Retained	94	94

Average: 94.00

Assessment Marks: 10.00

5.5 Faculty competencies in correlation to Program Specific Criteria (10)

Total Marks 10.00

Institute Marks: 10.00

The faculty members are organized various activities like workshops, FDPs, and SDPs. Also, participated in paper publication in Journal and Conferences, etc., to enhance the knowledge and expertise gained by the faculty members are further used in the development of courses, project guidance, etc. The details of faculty competencies is as shown in table 5.1.

A. Faculty Competencies in specialization, research publications, and course developments.

Table 5.1. Faculty Competencies in specialization, research publications, and course developments

Sl. No.	Faculty Name	Specialization	Publication Area	Course Developments	Knowledge areas contributed (as per Program Specific Criteria)
1	Dr. S. R. Patil	Ph. D (CSE)	Image Processing	Developed various course modules for UG Programs in ISE like Operating Systems, Logic Design, and Logic Design laboratory.	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.
2	Dr. S. P. Bangarshetti	Ph. D (CSE)	Image Processing	Developed various course modules for UG Programs in ISE such as Data Structures, File Information Streutures, Computer Organization, Object Oriented Programinng, FIS lab, OOPS lab.	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.
3	Prof. P. V. Kulkarni	M. Tech (CSE)	Data Mining	Developed various course modules for UG Programs in ISE such as ACA, DBMS, LD, and Data mining.	UG/PG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.
4	Dr. B. M. Reshmi	Ph.D(CSE)	Medical Image Analysis	Developed various course modules for UG Programs in ISE such as DS, Introduction to Unix, USP, Linux kernel programming, distributed capacity system, DS lab, and Unix lab.	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.
5	Prof. P. S. Puranik	M. Tech (CSE)	Web Programming	IOOPS lab, WT lab.	UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.

6	Dr. A. D. Devangavi	Ph.D (CSE)	Vehicular Adhoc Networks	Developed various course modules for UG Programs in ISE such as OS, NMS, MP LAB, and SA.	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.
7	Dr. L. B. Bhajantri	Ph.D (CSE)	Distributed Sensor Networks & E- commerce	Developed various course modules for UG Programs in ISE such as Compiler design, DBMS, AI & Expert System, SSM, TFCS, OOMD, OOMD lab, DBMS lab, Big Data and Analytics, and Python lab.	Paper Publications, UG/PG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS, session chair/technical committee member in conferences, editorial/associate board member in various journals.
8	Prof. R. B. Math	M. Tech (CSE)	Management	Developed various course modules for UG Programs in ISE such as SS, AI, DBMS, M&E, SS lab.	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.
9	Prof. V. S. Patil	M. Tech (CSE)	Image Processing	Developed various course modules for UG Programs in ISE such as FIS, DMS, FIS lab, OS lab.	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.
10	Prof. S. N. Kugali	M. Tech (Digital Comm.)	Computer Networks	Developed various course modules for UG Programs in ISE such as LD, MP, CN-1, CN-2, USP, C-Pgm, LD lab, USP lab, and Unix lab.	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.
11	Prof. S. H. Rathod	M. Tech (CSE)	Computer Networks	Developed various course modules for UG Programs in ISE such as AGT, CN, CN Lab, OOPS Lab, ADA lab, SS lab.	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.
12	Prof. G. M. Patil	M. Tech (CSE)	Web Technologies	Developed various course modules for UG Programs in ISE such as MIS, USP, ADA, WT, USP Lab, ADA Lab, WT Lab, and OOMD Lab.	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.
13	Prof. P. K. Deshpande	M.Tech (CSE)	Database Management System	C++ Lab.	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.
14	Prof. G. B. Shettar	M.Tech (CSE)	Software Testing	Developed various course modules for UG Programs in ISE such as CN, C# programming & .NET, OOMD lab, DBMS lab.	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.
15	Prof. D. I. Kalappanavar	M.Tech (CSE)	Network Security	Developed various course modules for UG Programs in ISE such as WT, CNS, OOPS, PPL, WT Lab, DS Lab, ADA Lab, SS Lab.	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS
16	Prof. C. R. Shivanagi	M.Tech (CSE)	Image Processing	Developed various course modules for UG Programs in ISE such as CG.	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.

17	Prof. M. R. Patil	M. Tech (CSE)	Web Technologies	Developed various course modules for UG Programs in ISE such as WT, DBMS	Paper Publications, UG projects, organizing FDP/SDP, Seminars/Webinar, and resource persons in various FDPs, subject expert in BoS.
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B. Faculty Competencies in faculty development and student development programmes/workshops

Table 5.2. List of events organized

Sl. No.	Academic Year	Name of the Faculty	Name of events organized by the faculty	Level
		Prof. P. K. Deshpande Prof. S. N. Kugali	Workshop on Enterprise Application Development Using J2EE	Institute
		Prof. P. K. Deshpande Prof. S. N. Kugali	Workshop on Internet of Things(IoT) – from sensors to cloud and back	Institute
01	2018-19	Prof. P. K. Deshpande Prof. S. N. Kugali	Student Development Programme on Real Time Development and Deployment Cycle	Institute
		Dr. S. R. Patil Dr. L. B. Bhajantri	FDP on Research Avenues in Information Technology	Institute
	Dr. B.M. Rest Prof. P. K. De	Prof. P. K. Deshpande	Pre-Placement Training on Technical Skills	Institute
			Pre-Placement Training on Aptitude Skills	Institute
			Pre-Placement Training on Verbal skills	Institute
		Dr. B.M. Reshmi Prof. P. K. Deshpande	Pre-Placement Training on Technical Skills	State
		Dr. L. B. Bhajantri Prof. V. S. Patil	SDP on Advanced Java Programming Towards Industry Approach	Institute
02	2019-20	Dr. L. B. Bhajantri Prof. V. S. Patil	V. S. Patil B. Bhajantri SDP on Data Structures using C	Institute
		Dr. B.M. Reshmi Prof. P. K. Deshpande	Pre-Placement Training Programme	Institute
		Dr. L. B. Bhajantri	FDP on Project Architecture Based Machine Learning	National
03	2020-21	Dr. B.M. Reshmi Prof. P. K. Deshpande	Pre-Placement Training Programme on Technical Skills	Institute
		Dr. B.M. Reshmi Prof. P. K. Deshpande	Pre-Placement Training Programme on Aptitude Skills	Institute
		Dr. L. B. Bhajantri Prof. R. B. Math Prof. Girish B. Shettar	NASSCOM Training programme on Data Science and Analytics under TEQIP-III	Institute
		Dr. Shobha R. Patil Prof. P. K. Deshpande	Workshop on ASP. Net and XML	Institute

Dr. Shobha R. Patil Prof. P. K. Deshpande Prof. V. S. Patil	Workshop on Advanced C Programming	Institute
Prof. P. K. Deshpande	Pre-Placement Training Programme Verbal Skills	Institute
Dr. Shobha R. Patil Prof. P. K. Deshpande Prof. V. S. Patil	Work Shop on Revisiting "C"	Institute

Table 5.3. List of NPTEL courses

Sl. No.	Academic Year	Name of the Faculty	Name of MOOCs/NPTEL/Coursera courses
01	2018-19		
		Dr. S. R. Patil	SWAYAM course on Digital Transformation in Teaching Learning Process, 16-3-2020 to 30-3-2020.
		Dr. S. P. Banagarashetti	SWAYAM course on Digital transformation in Teaching Learning Process, 16-3-2020 to 30-3-2020.
		Prof. P. V. Kulkarni	SWAYAM course on Digital Transformation in Teaching Learning Process, 6-4-2020 to 22-4-2020.
		Prof. P. S. Puranik	SWAYAM course on Digital Transformation in Teaching Learning Process, 16-3-2020 to 30-3-2020.
		Dr. B. M. Reshmi	SWAYAM course on Digital Transformation in Teaching Learning Process, 16-3-2020 to 30-3-2020.
		Dr. A. D. Devanagavi	SWAYAM course on Digital Transformation in Teaching Learning Process, 16-3-2020 to 30-3-2020.
		Dr. L. B. Bhajantri	SWAYAM course on Digital Transformation in Teaching Learning Process, 16-3-2020 to 30-3-2020.
02	2019-20	Prof. R. B. Math	NPTEL course on Toyota Production System, Aug. to Oct.2019.
		Prof. V. S. Patil	SWAYAM course on Digital Transformation in Teaching Learning Process, 16-3-2020 to 30-3-2020.
		Prof. S. N. Kugali	SWAYAM course on Digital Transformation in Teaching Learning Process, 16-3-2020 to 30-3-2020.
		Miss. G. M. Patil	SWAYAM course on Digital Transformation in Teaching Learning Process, 16-3-2020 to 30-3-2020.
		Sri. P. K. Deshpande	SWAYAM course on Digital Transformation in Teaching Learning Process, 16-3-2020 to 30-3-2020.
		Sri. G. B. Shettar	SWAYAM course on Digital transformation in Teaching Learning Process, 16-3-2020 to 30-3-2020.
		Smt. D. I. Kalappanavar	SWAYAM course on Digital Transformation in Teaching Learning Process, 16-3-2020 to 30-3-2020.
		Miss. C. R. Shivanagi	SWAYAM course on Digital Transformation in Teaching Learning Process, 16-3-2020 to 30-3-2020.

			NPTEL course on NBA Accreditation and Teaching - Learning in
		Dr. S. R. Patil	Engineering, Jan-Apr 2021
			NPTEL course on Effective Writing, Jan-Feb 2021
		Dr. S. P. Bangarashetti	NPTEL course on Python for Data Science, Sept. to Oct. 2020.
			NPTEL course on Python for Data Science, Sept. to Oct. 2020.
		Prof. P. S. Puranik	NPTEL course on Effective Writing, Jan. to Feb.2021
			NPTEL course on NBA Accreditation and Teaching - Learning in
			Engineering, Jan-Apr 2021.
03	2020-21		NPTEL course on Quality Design and Control, Jan. to April 2021.
		Prof. R. B. Math	NPTEL course on Project Management fo Managers, Sept. to Dec. 2020.
			NPTEL course on Google Cloud Computing foundations, Sept. to Dec. 2020.
			NPTEL course on Introduction to Internet of Things, Jan-April 2021
		Dr. L. B. Bhajantri	NPTEL course on Cloud Computing, Sep-Nov 2020
			NPTEL course on NBA Accreditation and Teaching - Learning in
			Engineering, Jan-Apr 2020

5.6 Innovations by the Faculty in Teaching and Learning (10)

Total Marks 10.00

Institute Marks: 10.00

The Department of Information Science and Engineering has been incorporating innovative techniques in teaching and learning process. The faculty members are deputed to attend pedagogical trainings or workshops from IIT/IIITs/NITs/University/, etc., to create and promote innovation techniques.

The following innovative techniques have been adopted in the teaching learning process.

The use of modern teaching aids like smart boards, LCD Projectors, MS Whiteboard for annotation and sharing PPTs to take online classes, etc.,

Department encourages academic discussions between faculties and students using social media networks like WhatsApp/Telegram/Google Classroom/Online meeting tools, etc.

Department conducts Seminar, Workshops, and Expert Talks every academic year.

The faculty members encourage the students to participate in Group discussions, team-based activities, presentations, etc.

Faculty used variety of online meeting tools/platforms for teaching of courses like Zoom, Cisco Webex, MS Teams, Google Meet, etc.

Faculty members have used discussions as well as sharing of course materials, assignments and quizzes and CIE tests using Google Classroom.

Live Tutorial classes - Regular online teaching and learning sessions among faculty and students for course of study through remote login system

Live streaming seminars/lectures - Regular streaming of lectures or online seminars/webinars by the faculty to students for course of study through remote login system

Pre-recorded lectures/tutorials sessions - Regular circulation of prerecorded video lectures or tutorial sessions by faculty to its students for particular course of study through remote login system, which are disseminated in the college website, student WhatsApp group, Telegram, Google Class room, etc.

Resources available in the college website to promote research-based learning like e-journals, e-books, NPTEL videos, e-database, etc. –

https://becbgk.edu/ISE/ISE_Home.php?id=0OgQR5

The sample class images and links to pre-recorded videos are shown below:

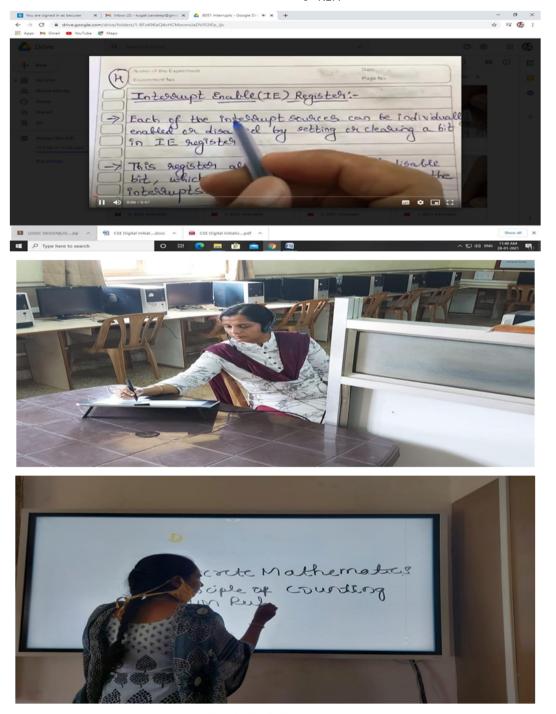


Figure 5.1. List of online class images

YouTube Video Links:

https://www.youtube.com/watch?v=ZNMCEZjfdlE

https://www.youtube.com/watch?v=8-CGlPrMLCg

https://www.youtube.com/watch?v=BnWSraHszHM

https://www.youtube.com/watch?v=HHuxDa90nqg

https://www.youtube.com/watch?v=qRmcEvx1Dt

5.7 Faculty as participants in Faculty development/training activities/STTPs (15)

Total Marks 15.00

Institute Marks: 15.00

Name of the County		Max 5 Per Faculty	
Name of the faculty	2020-21(CAYm1)	2019-20(CAYm2)	2018-19(CAYm3)
Dr. S.R.Patil	5.00	5.00	5.00
Dr. Sadhana.P.B	5.00	3.00	5.00
Sri. P.V.Kulkarni	5.00	5.00	5.00
Dr. B.M.Reshmi	3.00	3.00	3.00
Smt. Preeti Puranik	5.00	3.00	3.00
Dr. A.D.Devanagavi	5.00	5.00	5.00
Dr. Lokesh Bhajantri	5.00	5.00	5.00
Smt. Roopa.B.Math	5.00	5.00	5.00
Smt. V.S.Patil	0.00	5.00	0.00
Sri. S.N.Kugali	5.00	5.00	3.00
Miss. S.H.Rathod	0.00	0.00	0.00
Miss. G.M.Patil	5.00	5.00	0.00
Sri. P.K.Deshpande	0.00	5.00	3.00
Sri. Girish.B.Shettar	5.00	5.00	5.00
Smt. Deepa.I.K	5.00	5.00	3.00
Miss. Chetana Shivanagi	5.00	5.00	3.00
Sri. M.R.Patil	3.00	5.00	0.00
Sum	66.00	74.00	53.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	15.00	14.00	14.00
Assessment [3*(Sum / 0.5RF)]	26.40	31.71	22.71

Average assessment over 3 years: 26.94

5.8 Research and Development (75)

5.8.1 Academic Research (20)

A. Research Publication: The research publications by the faculty members are listed in the table 5.4.

Table 5.4. List of Consolidated Publications

Ç1		Total No. of Publications							
Si. No.	Academic Year		Conferences(National/International)	Book/Book Chapters	Patent				
01	CAY (2020-21)	06	05	02	00				
02	CAYm1 (2019-20)	05	10	00	01				
03	CAYm2 (2018-19)	05	02	00	00				
	Total	16	17	02	01				

B. List of paper Publications for the academic year 2020-21

Table 5.5. List of Journal Publications

	Table 5.5. List of Journal Publications								
Sl. No.	Name of the Faculty	Title of the Paper	Title of the Journal	International/ National	ISSN/ISBN	Vol. No., PP., Year, DOI, Scopus, WoS, DBLP, Google Scholar			
1	Dr. S. R. Patil	100-point Activity	International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)		2581-9429	8,4,47-50,2020, XX.082020/IJARSCT Google Scholar			
2	Bangarashetti	Using Pulse	Asian Journal For Convergence in Technology (AJCT)		2350-1146	6, 3, 10-15, 2020, https://doi.org/10.33130/AJCT.2020v06i03.003,Google Scholar			
3		Method for Automatic	Engineering and Informatics		1755-0661	13, 2, 103-110, Scopus, Google Scholar			

Total Marks 35.00

4	D. I. I	C	-1 T	2472 4265	4, 2, 1-18, 2020, https://10.4018/IJHIoT.2020070101,
4	I		1	24/3-4303	· · · · · · · · · · · · · · · · · · ·
	B. Bhajantri,		1		DBLP, Google Scholar
		Perception inconnectivity and t	ne		
		Cognitive Internet of Thin	gs		
		Internet of (IJHIoT)			
		Things:			
		Cognitive			
		Agent			
		Approach			
5	Lokesh B.	A Journal	of International	1899-8852	4, 27-43, https://doi.org/10.26636/jtit.2020.145220,
	Bhajantri,	Comprehensive Telecommunicatio	ns		Scopus, Google Scholar
		Survey onand Information	on		
		Resource Technology			
		Management			
		in Internet of			
		Things			
		8-			
6	Lokesh B.	Behavior and Journal of Kin	ng International		1-12, 2020,
	Bhajantri,	Feedback Saud University	-		https://doi.org/10.1016/j.jksuci.2020.12.003 Scopus,
		based Trust Computer as	nd		Web of Science, Google Scholar,
		Computation Information			
		framework for Sciences			Imapact factor-13.473
		Cloud			_
		Computing			

Table 5.6. List of Conference Publications

Sl. No.	Name of the Faculty	Title of the Paper	Title of the Conference	International/National	ISSN/ISBN	Vol. No., PP., Year, DOI, Scopus, WoS
1	Dr. Sadhana P. Bangarashetti	Secured Cloud Storage System Using Auto Passkey Generation	International Conference on Deep Learning, Computing and Intelligence - 2021	International		2021, Scopus
2	Dr. Sadhana P. Bangarashetti	Detection and Classification of Electronic Nose System	2021 5 th International Conference on Intelligent Computing and Control Systems (ICICCS)	International	978-1-6654- 1272-8	1- 4, 2021, Scopus
3	Dr. Bharati M. Reshmi	automatic detection of diabetic retinopathy using	2 nd International conference on adaptive computational intelligence-2020			2021, Scopus

4	Dr. Lokesh B. Bhajantri	A Comprehensive Survey: Towards Providing Personal Safety Services in Emergency	Conference on Emerging	International	978-981-15- 9774-9	661-670, Scopus
5	Dr. Lokesh B. Bhajantri	Internet of Things Based Smart Ring System for Human Safety Services	Computer Networks		978-981-15- 9647-6	1127-1146, Scopus

Table 5.7. List of Books/ Book Chanters

	Table 5.7. List of Books/ Book Chapters							
Sl. No.	Name of the Faculty	Title of the Book	Title of the Book Chapter	International/ National	ISSN/ISBN	Vol. No., PP., Year, DOI, Scopus, WoS		
1	Lokesh B. Bhajantri	Artificial Intelligence Applications in Security, IGI Global	A Comprehensive Review of Access Control Mechanism based on Attribute Based Encryption Scheme for Cloud Computing	International	9781799877059	4. 899-921, DOI: 10.4018/978-1-7998- 7705-9.ch042, Google Scholar		
2	Lokesh B. Bhajantri	Learning Techniques in Wireless and Mobile	Evaluating Trustworthiness	International	9781003107477	1-22, https://doi.org/10.1201/9781003107477, Scopus, Google Scholar		

C. List of paper Publications for the academic year 2019-20

Table 5.8. List of Journal Publications

Sl. No.	Name of the Faculty	Title of the Paper	Title of the Journal	International/ National	ISSN/ISBN	Vol. No., PP., Year, DOI, Scopus, WoS, DBLP, Google Scholar
1	Sadhana P. Bangarashetti	Laplacian based Image Mosaicing	International Journal of Engineering and Advanced Technology	International	2249 – 8958	9, 4, 791-794, 10.35940/ijeat.D7644.049420, 2020, Scopus

2	Sadhana P. Bangarashetti	Image Registration with Conditional Adversarial Networks	International Journal of Innovative Technology and Exploring Engineering	International	2278-3075	9, 6, 278-281, 10.35940/ijitee.E2901.049620 2020, Scopus
3	Bharati M Reshmi	A review on automatic identification of fovea in retinal fundus images	International Journal of Medical Engineering and Informatics	International	1755-0661	12, 2, 169 – 179, 2020, 10.1504/IJMEI.2020.106900, Scopus, Google Scholar
4	Lokesh B. Bhajantri	Access Control Mechanism based on Attribute Based Encryption	International Journal of Advanced Pervasive and Ubiquitous Computing & IGI Global	International	1937-9668	11, 3, 33-52, 2019, https://10.4018/IJAPUC.2019070103, DBLP, Google Scholar
5	Sandeep N. Kugali	Vehicular ADHOC Network (VANET):-A	International Journal of Engineering Research & Technology (IJERT)	International	2278-0181	· 9, 6,1-6, 2020, https://10.17577/IJERTV9IS060784, Google Scholar

Table 5.9. List of Conference Publications

Sl. No.	Name of the Faculty	Title of the Paper	Title of the Conference	International/ National	ISSN/ISBN	Vol. No., PP., Year, DOI, Scopus, WoS
1	Shobha. R. Patil	Enhancement of feature extraction in image quality	Third International Conference on I- SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC 2019) SCAD Institute of Technology, TN, India	International	978-1-7281- 4365-1	490-495, 2019, Scopus
2	Shobha R. Patil	Histopathological Images of Uterine Cancer: Aden	4 th International Conference on	International	978-1-7281- 5518-0	880-885, 2020, Scopus

3	Sadhana Bangarashetti	A Framework for image selection for image fusion using crowd sourced data	A dyonooc in	International	978-1-7281- 3241-9	167-173, 2019, Scopus
4	Sadhana P. Bangarashetti	Image Mosaicing Using Homography Estimation	2020 IEEE International Conference for Innovation in Technology (INOCON)	International	978-1-7281- 9744-9	130-136, 2020, Scopus
5	Sadhana P. Bangarashetti	All in One Card: A Knowledgeable Tool	IEEE Third International Conference on 'Multimedia Processing, Communications and Information Technology'' - MPCIT 2020	International	-	1-6, 2020, Scopus
6	Sadhana Bangarashetti	Blockchain Technology in Healthcare	IEEE Third International Conference on "Multimedia Processing, Communications and Information Technology" - MPCIT 2020	International	-	2020, Scopus
7	Sadhana P. Bangarashetti	IoT based Vehicle	Eleventh International Conference on Advances in Computer Science	International	2395-5295	191-196, 2020, Scopus
8	Bharati M. Reshmi	Automatic detection and grading of diabetic maculopathy using fundus images	Intelligence and	International	1877-0509	57-66, 2020, Scopus
9	Lokesh B. Bhajantri	A survey of Cloud Computing Security Challenges, Issues and their Countermeasures		International	978-1-7281- 4365-1	1-6, 10.1109/I- SMAC47947.2019.9032545, 2019, Scopus

		Cluster Based Data	International		
		Aggregation in	Conference on		
10	Lokesh B.	Distributed Sensor	Evolutionary	International	896-904, 2020, Scopus
10	Bhajantri	Networks: A	Computing and	memational	 890-904, 2020, Scopus
		Bayesian Classifier	Mobile Sustainable		
		Approach	Networks, Springer		

Table 5.10. List of Patents

Sl. No.	Name of the Faculty/Inventor	Title of the Patent	Application Number	Ref. and Date	Status (Applied/Published/Awarded)
1.	Dr Lokesh R	A Wearable Safety System for Real Time Human Emergency	202041023818A	India 20-06- 2020	Published

D. List of paper Publications for the academic year 2018-19

Table 5.11. List of Journal Publications

Sl. No.	Name of the Faculty	Title of the Paper	Title of the Journal	International/ National	ISSN/ISBN	Vol. No., PP., Year, DOI, Scopus, WoS, DBLP, Google Scholar
1	Lokesh B. Bhajantri	Aggregation in	International Journal of Computer Sciences and Engineering	International	2347-2693	6,7, 817-822,2018, Google Scholar
2	Lokesh B. Bhajantri,	Synchronization in	and Ubiquitous Computing & IGI		1937-9668	10,2, 1-17, 2018, 10.4018/IJAPUC.2018040101, DBLP, Google Scholar
3	Lokesh B. Bhajantri,	A Survey on Data Perception in Cognitive Internet of Things	and Information	International	1899-8852	3, 75-86, 2019, 10.26636/jtit.2019.131419, Scopus, Google Scholar
4	Roopa B. Math	manufacturing	International Journal of	International	1751-2018	13, 2, 2019, Google Scholar

5	Roopa B. Math	Sigma method to	International Journal of Business and Systems	International	1751-2018	13, 2, 2019, 10.1504/IJBSR.2019.098666, Scopus, Google Scholar
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Table 5.12. List of Conference Publications

Sl. No.	Name of the Faculty	Title of the Paper	Title of the Conference	International/ National	ISSN/ISBN	Vol. No., PP., Year, DOI, Scopus, WoS
1	Lokesh B. Bhajantri	Framework based on User Behavior and Recommendation in	Computing and	International	978-1-5386- 9533-3	1-6, 2019, 10.1109/ICACCS.2019.8728484, Scopus
2	Reshmi B.M.	Automatic Diagnosis of	4 th International Symposium SIRS 2018, Springer Publications		978-981-13- 5757-2	410-420,2018, Scopus

E. Ph.D Guidance

The following faculty members have been guiding the students under Visvesvaraiah Technological University (VTU), Belagavi, as shown in table 5.13.

Table 5.13. Ph.D guided/guiding during the assessment periods

	Ass		Assessmen	nt Periods		
Sl. No.	Name of the Faculty	CAY 2020-21	CAY 2019-20	CAY 2018-19	CAY 2017-18	University
01	Dr. S. R. Patil	04	04	04	04	Visvesvaraiah Technological University (VTU), Belagavi
02	Dr. S. P. Bangarashetti	03	03	03	03	Visvesvaraiah Technological University (VTU), Belagavi
03	Dr. B. M. Reshmi	02	02	02	02	Visvesvaraiah Technological University (VTU), Belagavi
04	Dr. L. B. Bhajantri	04	04	05	05	Visvesvaraiah Technological University (VTU), Belagavi

F. Ph.D Awarded/Pursuing

The following faculties awarded and pursuing Ph.D during the assessment periods is as shown in table 5.14.

Table 5.14. Ph.D awarded during the assessment period

			Assessme	ent Periods		
Sl. No.	Name of the Faculty	CAY	CAYm1	CAYm2	CAYm3	University
		2020-21	2019-20	2018-19	2017-18	

01	Dr. A. D. Devangavi	 	 Awarded	Rabindranath Tagore University, MP, India.
02	Prof. V. S. Patil	 	 Pursuing	Visvesvaraiah Technological University (VTU), Belagavi

5.8.2 Sponsored Research (20) Institute Marks: 0.00

2020-21 (CAYm1)

Project Title	Duration	Funding Agency	Amount(in Rupees)
	00		0.00
			Total Amount(X): 0.00

2019-20 (CAYm2)

Project Title	Duration	Funding Agency	Amount(in Rupees)
	00		0.00
			Total Amount(Y): 0.00

2018-19 (CAYm3)

Project Title Duration F		Funding Agency	Amount(in Rupees)
	00		0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 0.00

5.8.3 Development activities (15) Institute Marks: 15.00

A. Product Development

Institute has established MoU with Karnataka Biotechnology and Information Technology Services (KBITS), GoK. As per the MoU, every year 10 best faculty/students ideas will be selected by KBITS and up to Rs. 3 Lakhs will be funded to convert idea into product. List of the ideas selected for funding is given in below table 5.15.

Table 5.15. List of Product Projects

Sl. No.	Name of the students	Title of the Project	Description
01	Aishwarya Mokhashi - 2BA15IS011		art Nowadays even though govt is
02	Usha R. Tukkappanavar - 2BA15IS080	Helmet	making strict action for the security of two wheelers traveler that is
03	Veena Karalatti - 2BA15IS085		wearing helmet, but many people are not following the rules and hence are



Sl. No.	Name of the students	Title of the Project	Description
01	Aishwarya B Kovalli - 2BA15IS005		
02	Bhagyashri V Pawar - 2BA15IS021	Smart Vehicle	
03	Ganga A Hadagali - 2BA15IS026	Sinuar venice	The project "Smart Vehicle"
04	Madhu Dodamani - 2BA15IS035		implements the application of fingerprint identification (Biometric)
		SIFER RILLING THOUGH COURT HELDET	in the vehicle ignition systems and the GPS location of the vehicle. Using this project, the access to a vehicle can be controlled using finger prints. For this an embedded finger print module is used in which the thumb finger prints of the owner and his other authorized users will be fed into the embedded module.

B. Research Laboratory

The department of Information Science and Engineering has been recognized as a research centre by Visvesvaraiah Technological University (VTU), Belagavi, Karnataka, India, from the academic year 2019-20. The following table 5.16 shows the research scholars details.

Table 5.16. List of research scholars

Sl.No.	Name of the Research Scholar	Name of Guide	Туре	University
01	Rajkumar C. Sikkeri, TKIET, Kolhapur	Dr. S. R. Patil	Part- Time	VTU, Belagavi
02	Sudha V. Salake, GIT, Belagavi	Dr. S. P. Bangarashetti	Part- Time	VTU, Belagavi
	Raghavendra Jadhav, GIT, Belagavi	Si i Sungulasion	Part- Time	VTU, Belagavi
03	Priyanka Tuppad, BGMIT, Mudhol	Dr. B. M. Reshmi	Part- Time	VTU, Belagavi
04	Girish B. Shettar, BEC, Bagalkot	Dr. A. D. Devanagavi	Part- Time	VTU, Belagavi
01	Vinayak Telasang, BGMIT, Mudhol	Di. M. D. Bevanagavi	Part- Time	VTU, Belagavi

05 Basavarak G. Kumbar, BGMIT, Mudhol Dr. L. B. Bhajantri	Part- Time	VTU, Belagavi
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The lists of facilities are available in research laboratory is as shown in table $\overline{5.17}$.

Table 5.17. List of facilities

Sl. No.	Particulars	Quantity
01	HP desktop computers, Intel CORE 15, 6500 CPU@3.2 GHZ, 8 GB RAM, 1 TB HDD, 17" LCD Monitor, Keyboard, and Mouse.	30
02	Interactive white board with projector.	01
03	HP Laser Jet 2020 printer	01
04	List of legal software's: Windows 7, Windows 8, Windows 8.1, Windows 10, Visual Studio 2010/12, .Net Frame work, Microsoft Office 2012, Quick Heal Antivirus, Windows Server 2012/16	04
04	Additional Facilities:Open Source Software's: VP Suite, OpenSuse, Oracle 10G,Java SE Development Kit, Turbo C++, MatLab Octave, Wireshark, NS2, Max Plus2, Fedora 24, Ubantu, Selenium IDE, Keil Micro-Vision4 open source software tool kit etc. Other hardware components: 20 KVA and 10 KVA Online UPS System, IOT kits, Micro-controller 8051, MSP 430 kit. 100 mbps Jio and 200 mbps Internet facility, and Wi-Fi Facility. Other Online Course materials and library facilities: NPTEL materials and Central library facility.	04
05	loT kit	05

The lists of centralized facilities are available in research laboratory is as shown in table 5.18.

Table 5.18. Centralized Facilities for Research Activities

Sl. No.	Particulars	Quantity/Facility
01	Number of National Journals	12
02	Number of International Journals	800
03	No. of Titles Pertaining to Proposed Research Activities	100
04	No. of Volumes Pertaining to Proposed Research Activities	250
05	Audio-Video Facility in the Department	Yes
06	Internet Facility in the Department	Yes
07	Reprographic Facility	Yes
08	Documents Scanning Facility	Yes

C. Instructional materials

The department faculty members have prepared the instructional materials for their respective subjects. The instructional materials are communicated to students in WhatsApp group and Google Classroom. The instructional materials are published on the institutional website (https://becbgk.edu/ISE/ISE_Home.php?id=0OgQR5) for reference by the students.

D. Working Models/Charts/Monograms

The department faculty members have prepared the charts for their respective subjects. The charts are disseminated in the respective department laboratories. Sample Chart pictures are provided below:

BASAVESHWAR ENGINEERING COLLEGE, (AUTONOMOUS)

Government Aided Institution and Affiliated to Visvesvaraya Technological University, Belagavi, NAAC 'A' Grade] Accreditation]

BAGALKOT - 587103

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Common Data Structure Operations

Data Structure	Time Complexity						Space Complexity		
	Average				Worst			Worst	
	Access	Search	Insertion	Deletion	Access	Search	Insertion	Deletion	
<u>Array</u>	Θ(1)	Θ(n)	Θ(n)	Θ(n)	0(1)	0(n)	0(n)	0(n)	0(n)
Stack	Θ(n)	Θ(n)	Θ(1)	Θ(1)	0(n)	0(n)	0(1)	0(1)	0(n)
Queue	0(n)	Θ(n)	Θ(1)	Θ(1)	0(n)	0(n)	0(1)	0(1)	0(n)
Singly-Linked List	Θ(n)	Θ(n)	Θ(1)	Θ(1)	0(n)	0(n)	0(1)	0(1)	0(n)
Doubly-Linked List	Θ(n)	Θ(n)	Θ(1)	Θ(1)	0(n)	0(n)	0(1)	0(1)	0(n)
Skip List	$\theta(\log(n))$	$\Theta(\log(n))$	$\Theta(\log(n))$	$\Theta(\log(n))$	0(n)	0(n)	0(n)	0(n)	O(n log(n))
Hash Table	N/A	Θ(1)	Θ(1)	0(1)	N/A	0(n)	0(n)	0(n)	0(n)
Binary Search Tree	$\theta(\log(n))$	$\theta(\log(n))$	$\Theta(\log(n))$	$\theta(\log(n))$	0(n)	0(n)	0(n)	0(n)	0(n)
Cartesian Tree	N/A	$\Theta(\log(n))$	$\Theta(\log(n))$	$\Theta(\log(n))$	N/A	O(n)	0(n)	0(n)	O(n)
B-Tree	$\theta(\log(n))$	$\Theta(\log(n))$	$\Theta(\log(n))$	$\Theta(\log(n))$	0(log(n))	0(log(n))	O(log(n))	0(log(n))	0(n)
Red-Black Tree	$\theta(\log(n))$	$\Theta(\log(n))$	$\Theta(\log(n))$	$\Theta(\log(n))$	0(log(n))	0(log(n))	O(log(n))	0(log(n))	0(n)
Splay Tree	N/A	$\Theta(\log(n))$	$\Theta(\log(n))$	$\Theta(\log(n))$	N/A	0(log(n))	O(log(n))	0(log(n))	0(n)
AVL Tree	$\theta(\log(n))$	$\Theta(\log(n))$	$\Theta(\log(n))$	$\Theta(\log(n))$	0(log(n))	0(log(n))	O(log(n))	0(log(n))	0(n)
KD Tree	$\theta(\log(n))$	$\Theta(\log(n))$	$\theta(\log(n))$	$\theta(\log(n))$	0(n)	0(n)	0(n)	0(n)	O(n)

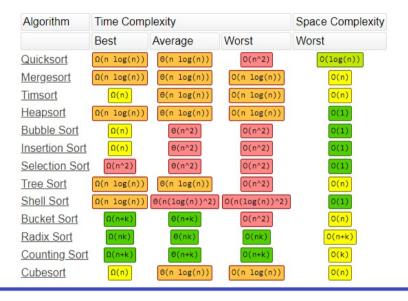
BASAVESHWAR ENGINEERING COLLEGE, (AUTONOMOUS)

[Government Aided Institution and Affiliated to Visvesvaraya Technological University, Belagavi, NAAC 'A' Grade] Accreditation

BAGALKOT - 587103

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Array Sorting Algorithms



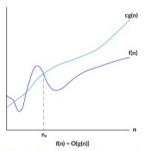
BASAVESHWAR ENGINEERING COLLEGE, (AUTONOMOUS)

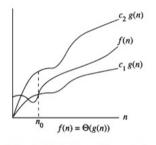
[Government Aided Institution and Affiliated to Visvesvaraya Technological University, Belagavi, NAAC 'A' Grade] Accreditation]

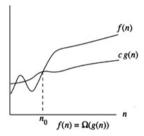
BAGALKOT - 587103

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Algorithms Performance







Big-O Notation (O-notation)

Theta Notation $(\Theta$ -notation)

Omega Notation (Ω -notation)

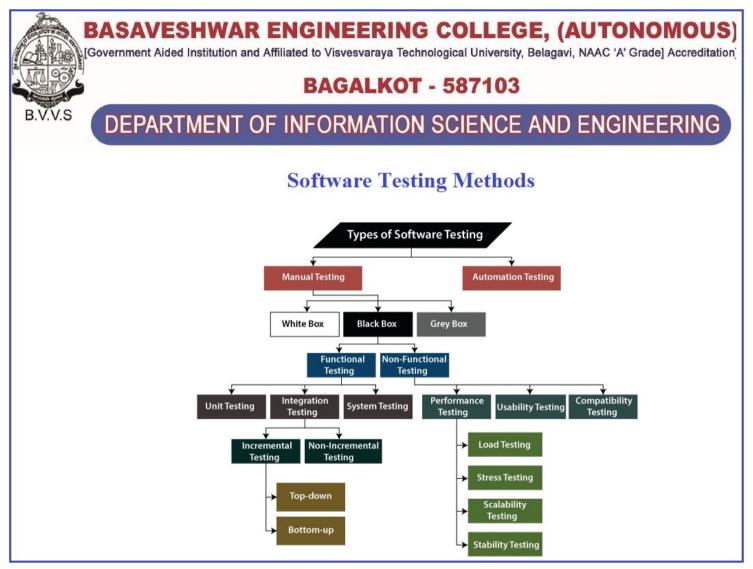


Figure 5.2. List of charts

5.8.4 Consultancy (from Industry) (20) Institute Marks: 0.00

2020-21 (CAYm1)

Project Title	Duration	Funding Agency	Amount(in Rupees)
	00	-	0.00
			Total Amount(X): 0.00

2019-20 (CAYm2)

Project Title	Duration	Funding Agency	Amount(in Rupees)
	00		0.00
			Total Amount(Y): 0.00

2018-19 (CAYm3)

Project Title	Duration	Funding Agency	Amount(in Rupees)
	00		0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 0.00

5.9 Faculty Performance Appraisal and Development System (FPADS) (10)

Total Marks 10.00

Institute Marks: 10.00

Expected tasks of a faculty member are:

Provide up-to-date reports involving teaching activities and student advising as assigned by the department.

Be responsible for course development and participate in curriculum and program development.

Fulfil all instructional and advising responsibilities as specified in the policies and procedures.

Participate in scholarly and research activities which enhance their professional development and contribute to their discipline.

Serve as appropriate in the department, college and university committees.

Provide professional services to the University and community.

Feedback collected for all courses	:	YES
Specify the feedback collection process	:	Feedback is collected through an online process system at the end of every semester.
Percentage of students participating	:	100%

The department has adopted Academic Performance Index (API) appraisal of UGC. Based on the scores in each criteria, the performance of faculty is mentioned and regulated. Faculty performance appraisal information is given in the below table:

Table 5.17. Faculty performance appraisal information

Name of the Faculty	2018-19	2019-20	2020-21
Dr. S. R. Patil	250	292	292
Dr. S. P. Bangarashetti	255	280	240
Prof. P. V. Kulkarni	180	180	180
Dr. B. M. Reshmi	190	200	200
Dr. A. D. Devangavi	200	210	210
Prof. P. S. Puranik	110	125	113
Dr. L. B. Bhajantri	335	425	435
Prof. R. B. Math	139	139	139
Prof. V. S. Patil	144	144	144
Prof. G. M. Patil	139	134	134
Prof. P. K. Deshpande	138	140	138
Prof. S. N. Kugali	144	144	154
Prof. C. R. Shivanagi	126	121	126
Prof. D. I. Kalappanavar	144	139	140
Prof. G. B. Shettar	115	116	141
Prof. M. R. Patil	134	134	134

5.10 Visiting/Adjunct/Emeritus Faculty etc. (10)

Total Marks 10.00

Institute Marks : 10.00

There is a provision in the institute to invite eminent personalities from Industry and Academia to teach various courses. This enables sharing of knowledge and expertism of visiting faculties also bridge the Industry-Academia gap. The following table shows the visiting faculty details.

Table 5.18. Summary of the Visiting/Adjunct/Emeritus Faculty

Academic Year	Course Code	Course Name	No. of Hours	Name of visiting faculty	Organization
	UHS001N	Fundamentals of Quantitative Aptitude and Soft Skills		Mr. Manjesh S. P. Lead Trainer	Innovations Unlimited
2020-21	UHS002N	Advanced Quantitative Aptitude and Soft Skills		Mr. Aswin Das Consultant Trainer	Training Services, Vidyaranyapura, Bangalore
				Ms. Ayesha H.	www.iuts.in
	UHS003N	Career Planning and Professional Skills	30	Consultant Trainer	
	UHS001N	Fundamentals of Quantitative Aptitude and Soft Skills		Ms. Dipti D. Consultant Trainer	Innovations Unlimited
2019-20	UHS002N	Advanced Quantitative Aptitude and Soft Skills	30	Ms. Archana M. Consultant Trainer	Training Services, Vidyaranyapura, Bangalore
	UHS003N	Career Planning and Professional Skills	30	Mr. Saravanan Consultant Trainer	www.iuts.in
	UHS001N	Fundamentals of Quantitative Aptitude and Soft Skills		Mr. Vineet M. Consultant Trainer	Innovations Unlimited
2018-19	UHS002N	Advanced Quantitative Aptitude and Soft Skills		Mr. Jagadeep K. Consultant Trainer	Training Services, Vidyaranyapura, Bangalore
	UHS003N	Career Planning and Professional Skills	30	Mr. Pratyus Consultant Trainer	www.iuts.in

6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 80.00

6.1 Adequate and well equipped laboratories, and technical manpower (40)

Total Marks 40.00

Institute Marks: 40.00

Sr.	Name of the	Number of	Name of the	Weekly utilization	Technical Manpower Support			
No	Laboratory	students per set up(Batch Size)	Important Equipment	status(all the courses for which the lab is utilized)	Name of the Technical staff	Designation	Qualification	
1	Aho – Ullman L	30	LCD Projector,	Introduction to	Sri. A. D. Lokha	Asst. Instructor	Diploma (Comp	
2	Abraham Silbe	30	IBM Web Serve	Analysis of Alg	Sri. Kupendrak	Foreman	Diploma (Com	
3	Tim- Berner's L	30	LCD Projector,	Data Structure:	Sri. D. S. Gada	Asst.Instructor	Diploma (Com	
4	Quine-McClusk	30	Digital Trainer I	Logic Design L	Sri. V. S. Nashi	Asst. Instructor	ITI (Electronics	
5	Dr. A.P.J Abdul	30	Smart Board, N	Project Phase	Sri. V. S. Nashi	Asst. Instructor	ITI (Electronics	
6	Aho – Ullman L	30	LCD Projector,	Software Testir	Sri. A. D. Lokha	Asst. Instructor	Diploma (Com	
7	Abraham Silbe	30	IBM Web Serve	Project Phase	Sri. Kupendrak	Foreman	Diploma (Com	
8	Tim- Berner's L	30	LCD Projector,	Project Phase	Sri. D. S. Gada	Asst. Instructor	Diploma (Com	
9	Dr. A.P.J Abdul	30	Smart Board, 2	Mini Projects ((Sri. V. S. Nashi	Asst. Instructor	ITI (Electronics	

6.2 Laboratories maintenance and overall ambiance (10)

Total Marks 10.00

Institute Marks: 10.00

All the laboratories are well equipped as per the curriculum and the POs as well as good qualities of computing facilities in the department. The following are the procedures used to maintain the laboratories and overall ambiance:

- Repairing To elongate the functional life of equipments significantly, the conduction of small repairs or replacement of parts as and when they are needed.
- Calibration Services Calibration process for the equipments in the laboratory such as multi-meter, ammeter, Digital IC Tester, and etc., is carried out on every semester.
- Regular Cleaning Carried out with respect to each laboratory for maintaining good ambiance.
- . Outsource/In-house For laboratory equipment maintenance and overall repairing is carried out by the technical professionals are called yearly for servicing.
- · A technical staff regularly maintains/updates the software's in the laboratories such as firewalls, PC maintains, software tools, minor repairs, and the antivirus software's.
- · Laboratory manuals are prepared for the experiments and provided to the students at the time of practical hours.
- · First aid kit and Fire extinguishers are available in the department.
- · Laboratories rooms are well ventilated with sufficient lighting and air conditions.
- Emergency light connections available in each lab in case of power failure.
- · Cup-boards or racks are available for students to place their belongings in each laboratory.
- · Each Lab is equipped with smart board, Internet, and other amenities.
- · Each lab is equipped with Projectors to aid the teaching process.
- . Exclusively, a project lab has been provided for the students to carry out their mini and major project work. This will promote innovation and creativity in students

The following figures show the each laboratory of department photos:



Figure 6.1. Aho – Ullman Lab (ISE Lab - 1)



Figure 6.2. Abraham Silberschatz Lab (ISE Lab -2)



Figure 6.3. Tim- Berner's Lee Lab (ISE Lab -3)

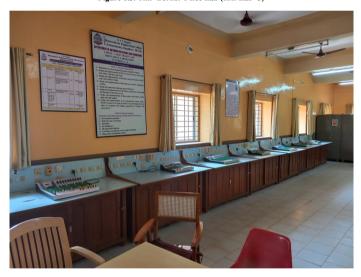


Figure 6.4. Quine-McCluskey Lab (ISE Lab -4)

6.3 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks: 10.00

Sr. No	Laboratory Name	Safety Measures
1	Aho – Ullman Lab (ISE Lab - 1)	Specific safety rules like Do's and Don'ts are displayed and instructed for all students. Fire Extinguishers Antivirus Software Firewall First Aid Kit Emergency Power off Systems.
2	Abraham Silberschatz Lab (ISE Lab -2)	Specific safety rules like Do's and Don'ts are displayed and instructed for all students. Fire Extinguishers Antivirus Software Firewall First Aid Kit Emergency Power off Systems.
3	Tim- Berner's Lee Lab (ISE Lab -3)	Specific safety rules like Do's and Don'ts are displayed and instructed for all students. Fire Extinguishers Antivirus Software Firewall First Aid Kit Emergency Power off Systems.
4	Quine-McCluskey Lab (ISE Lab -4)	Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. Fire Extinguishers First Aid Kit Emergency Power off systems
5	Dr. A.P.J Abdul Kalam Lab (ISE Lab -5)	Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. Fire Extinguishers Antivirus Software First Aid Kit Emergency Power off systems

6.4 Project laboratory (20)

Total Marks 20.00

Institute Marks : 20.00

The department has been providing facilties to students towards project work. The project laboratory enables UG students to obtain hands-on experiance and to realize their project ideas as executable projects. The final year and miniproject of 8th semester are carried out in this laboratory, respectively.

The following facilities available for project work are shown in below table 6.1.

Table 6.1. List of facilities

Sl. No.	Facilities	Utilization	Relevance to POs and PSOs
01	Licensed and Open Source Software's - MS Office 365, C#.Net, Visual Studio 2012, Windows 7, Quick Heal Antivirus, windows server 2016, VPSuite, OpenSuse, Oracle11G, Java SE Development Kit, TurcboC++, Geany, Wireshark, NS2, Fedora 24, Ubuntu, Selenium IDE, etc.,	Utilized by UG students to implement group tasks/mini projects/final year projects.	PO-2, PO-3, PO-4, PO-5, PO-6, PO-7, PO-8, PO-9,PO-11, and PO-12 PSO-1, PSO-2, and PSO-3

02	Internet / Wi-Fi Connection.	Utilized by UG students, research scholars and faculty members To be abreast with present technology and market Communication Research Activities
03	Network Simulator Tools or Software's – NCTUNs, NS2, NetSim.	Used for student project implementation
04	Verilog Software.	Used for logic circuits simulations.
05	tool and Microcontroller 8051, and MSP 430	Used for microcontroller and embedded
06	Internet of Things (IoT) Kit.	Used to carry out the projects.

The following figure 6.5 shows the photo of project laboratory.



Figure 6.5. Project laboratory.

7 CONTINUOUS IMPROVEMENT (75) Total Marks 75.00

7.1 Actions taken based on the results of evaluation of each of the COs, POs & PSOs (30)

Total Marks 30.00

Institute Marks: 30.00

POs Attainment Levels and Actions for Improvement- (2020-21)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.5	2.89	Target achieved. Hence the same procedure will be continued for the next year

Action1: Target revised to 2.75 Action2: By observations of PO attainments for the courses Discrete Mathematical Structures (UIS322C) and Computer Organization (UIS314C), the levels are at low. Hence it is decided to take more extra classes, use teaching tools, and solve more problems in the courses. Action3: Conduct expert lectures, seminars, and Student Development Programmes (SDPs) to help the students to attain this.

PO 2: Problem Analysis

PO 2 2.5 Target achieved. Hence the same procedure will be continued for the next year

Action1: Target revised to 2.75 Action2: The attainment levels for the courses Discrete Mathematical Structures(UIS322C) and Computer Organization(UIS314C) are at level 2. Hence more attains needs to be given to these courses. Use better pedagogical techniques to teach and solve more problems. Action3: Conduct guest lectures, seminars, SDPs, and encourage the students to take online courses.

PO 3: Design/development of Solutions

PO 3 2.5 Zanget achieved. Hence the same procedure will be continued for the next year

Action1: Target revised to 2.75 Action2: The attainment level of course Logic Design (UIS308C) is at level 2, more problems on design of logic circuits are to be conducted. Action3: Training sessions to enhance hands on experience are to be conducted. This helps the students to understand the process of analysis and designing solutions to complex problems. Action4: Students are encouraged to participate in state level/ national level competitions.

PO 4: Conduct Investigations of Complex Problems

PO 4 2.5 Zarget achieved. Hence the same procedure will be continued for the next year

Action1: Target revised to 2.75 Action2: Attainment in course Data Structures and Algorithms (UIS325C) is found to be at level 2. Hence remedial classes to be conducted for low performing students. Action3: Students are encouraged to publish their work in National/International conferences and journals. Action4: To provide financial assistance to the students. Action5: Also, proposed to organize a national level technical competitions/conferences.

PO 5: Modern Tool Usage

PO 5 2.5 3.00 Target achieved. Hence the same procedure will be continued for the next year

Action1: Target revised to 2.75 Action2: To provide hands on training on usage of modern tools, compilers, languages, design tools, testing tools, etc.

PO 6: The Engineer and Society

PO 6 2.5 2.96 Target achieved. Hence the same procedure will be continued for the next year

Action1: Target revised to 2.75 Action2: To encourage the students to take memberships and participate in professional societies like IEEE, CSI, IETE,IEI, and ISTE. Action3: Internship is made mandatory part of the curriculum at 7th semester level. Action4: AICTE has introduced 100 point activities which enables the students to participate in societal activities, understand various problems of the society and provide solutions.

PO 7: Environment and Sustainability

PO 7 2.5 Target achieved. Hence the same procedure will be continued for the next year

Action1: Target revised to 2.75 Action2: The various awareness camps on environmental issues like use of plastic, waste management and use e-resources are conducted. Action3: Students are encouraged to take up projects on societal and environmental issues.

PO 8: Ethics

PO 8 2.5 Target achieved. Hence the same procedure will be continued for the next year

Action1: Target revised to 2.75 Action2: Students are enforced to adhere to the institutional code of conduct and ethical practices. Action3: The various reviews are conducted in all the courses and project works to ensure adherence of professional ethics and standards. Action4: The plagiarism checks are introduced to ensure originality of the project.

PO 9: Individual and Team Work

PO 9 2.5 Target achieved. Hence the same procedure will be continued for the next year

Action1: Target revised to 2.75 Action2: Students are encouraged to participate in various co-curricular activities in individual and teams at State/National level events. Action3: More group assignments are given in various courses.

PO 10: Communication

PO 10 2.5 Target achieved. Hence the same procedure will be continued for the next year

Action1: Target revised to 2.75 Action2: Training programmes are organized to enhance the employability skills and hence placements. Action3: Students are encouraged to present the seminars in some of the courses in advanced topics.

PO 11: Project Management and Finance

PO 11	2.5	2.93	Target achieved. Hence the same procedure will be continued for the next year
Action1: Target revised to 2.75 Action2: Students are encouraged to prepare project proposals for funding to various agencies like KSCST, VTU, KBITS, and TEQIP.			

PO 12: Life-long Learning

PO 12	2.5	2.93	Target achieved. Hence the same procedure will be continued for the next year

Action1: Target revised to 2.75 Action2: MOOCS/SWYAM/NPTEL/Coursera are made mandatory in the curriculum Action3: Students are motivated to register to GRE/TOEFL/GATE and other competitive examinations.

PSOs Attainment Levels and Actions for Improvement- (2020-21)

PSOs Target	get Level	Attainment Level	Observations
-------------	-----------	------------------	--------------

PSO 1: To demonstrate the abilities to apply the basic science and engineering fundamentals to solve complex engineering problems in the society.

PSO 1	2.5	2.95	Target achieved. Hence the same procedure will be continued for the next year			
Action 1: Target revised to 2.75 Action 2: Conduct extra classes and tutorials on basic science and engineering fundamental courses						

PSO 2: To demonstrate the abilities to provide information and communication technology solutions using modern engineering and IT tools at affordable cost working as a team member.

1 66 2		PSO 2	2.5	2.95	Target achieved. Hence the same procedure will be continued for the next year
--------	--	-------	-----	------	---

Action1: Target revised to 2.75 Action2: Introduced tutorial classes for courses Data Structures and Algorithms, Logic Design, Theoretical Foundations of Computer Science, and Operating Systems to enhance the knowledge in program specific areas. Action3: Conduct SDPs like workshops, training programmes, seminars on various modern engineering ICT tools. Action4: Offer more electives and skill oriented courses to strengthen the domain knowledge and make job ready graduates. Action5: Students are encouraged to participate in various activities as a team member.

PSO 3: To exhibit ethical, social and professional responsibilities and engage in life long learning.

	PSO 3	2.5	2.95	Target achieved. Hence the same procedure will be continued for the next year
--	-------	-----	------	---

Action1: Target revised to 2.75 Action2: Students are motivated to participate in various activities at state/national levels. Action3: Adherence to institutional rules and regulations, standards, academic schedules, etc. Action4: Motivate students to start their own ventures through Institute Industry Interaction cell (IIIC) and Entrepreneurship Development Cell (EDC).

7.2 Academic Audit and actions taken thereof during the period of Assessment (15)

Total Marks 15.00

Institute Marks: 15.00

Academic audit is a scientific and systematic method of reviewing the quality of academic process in the institution. It is related to quality assurance and enhancing the quality of academic activities in the institute. The Academic Audit is to be conducted by all the departments twice during an academic year, preferably at the end of each semester. The audit is to be conducted by a committee constituted by the HoD and approved by Principal.

Suggestive composition of the committee:

- · Chairman Professor and Head of the department
- · Member One Professor
- · Member One Associate Professor
- · Member One Assistant Professor
- · Member External One Professor/Associate Professor (Subject Expert)

The scope of the audit includes:

- 1. Course files
- 2. Actual content delivery
- 3. Assignments
- 4. Quality of question papers (Both CIE and SEE)
- 5. Quality of experiments and maintenance of proper lab records
- 6. Quality of projects and their evaluation as per suggested rubrics
- 7. Quality of internship and their evaluation as per suggested rubrics
- 8. Details of workshops/conferences/FDP/SDP organized by the department

9. Details of academic load in the department

Dean (Academic) Principal



Basaveshwar Engineering College (Autonomous), Bagalkot

Internal Academic Audit from the Department

Name of the Department: Information Science & Engineering

Academic Year: Semester: Date of Audit:

i. Course Files

		1	2	3	4	5	
Parameter	Course Code						
	Initial of the faculty						Remarks
Student roll list							
Time table							
Syllabus copy							
Course objectives &	outcomes						
Academic calendar							
Lesson plan							
Topics covered under content beyond syllabus							
No. of topics covered using ICT							
Innovations in teachi	ngs (If any)						

SEE Question papers			
CIE Question Papers			
CO Assessment			
Calculation of indirect attainment			
CO – PO Mapping (Justification if Required)			
Course exit survey form			

Note: Verify each parameter and indicate with Y: Yes or N: No or NA: Not Applicable

Chairman	Member	Member	Member	Member

ii. Actual Content Delivery

		1	2	3	4	5	
	Course code						
Parameter	Initial of the faculty						Remarks
No of classes allotted as per academic calendar and time table							
No of classes engaged as per attendance Register							
Percentage of the syllabus covered							

iii. Assignments

		1	2	3	4	5	
	Course code						
Parameter	Initial of the faculty						Remarks
Mention the number of assignments given							
Nature of assignments (Descriptive/MCQ/programming/simulation others)							
Quality of questions (Rate on the scale 0 - 5)*							

^{*0 -} Very poor, 1 - Poor, 2 - Average, 3 - Good, 4 - Very good, 5 - Excellent

iv. Evaluation

	1	2	3	4	5	Remarks

Parameter	Course code			
rarameter	Initial of Faculty			
Quality of CIE question papers-(As per Blooms taxonomy or not) – Y/				
Pass percentage in CIE				
Quality of SEE question papers-(As per Blooms taxonomy or not) – Y/N				
Pass percentage in SEE				

v. Quality of Experiments and maintenance of proper lab records

		1	2	3	4	5	
	Lab code						
Parameter	Initial of the faculty						Remarks
No. of Experiments as per syllabus							
No. of Experiments Conducted							
Quality of Experiments (Rate on the scale							
0-5)*							
Whether experiments are assessed soon after they are completed (Y/N)							
Percentage of experiments involving design							
No. of open ended experiments given							

^{*0 -} Very poor, 1 - Poor, 2 - Average, 3 - Good, 4 - Very good, 5 - Excellent

vi. Quality of Projects and their evaluation as per suggested Rubrics

		1	2	3	4	5	
Parameter	Course code						
	Initial of the guide						Remarks
Nature of Project (HW/SW/Fabrication/Simulation)							
Quantity of work (Rate on the scale 0 - 5)*							
Quality of the project (Rate on the scale 0 -5)*							
Number of intermediate reviews are conducted as per suggested rubrics							
Whether financed from any agency (Y/N)							
Whether supported by any industry (Y/N)							
Received any awards/recognition or any publication (Y/N)							

*0 - Very poor, 1 - Poor, 2 - Average, 3 - Good, 4 - Very good, 5 - Excellent

vii. Quality of Internships and their evaluation as per suggested Rubrics

		1	2	3	4	5	
Parameter	Internship						
	Guide						Remarks
Nature of internship (HW/SW/Fabrication/Simulation/study)							
Duration of Internship							
Mode of Internship (Online/offline)							
Paid internship from the industry (Y/N)							
Quantum of work (Rate on the scale 0 - 5)*							
Evaluated as per suggested rubrics (Y/N)							
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1					

^{*0 -} very poor, 1 - poor, 2 - average, 3 - good, 4 - very good, 5 - excellent

viii. Details of workshops/conferences/FDP/SDP organized by the department

S. No	Title	Name of the coordinator	Funding agency	No. of participants	

ix. Details of academic load in the department

S. No	Name of the faculty	No. of Courses		No. of Periods Credits		Credits	Work load (Hrs.)	Remarks
		Т	P	Т	P			
Total No. of Direct	Total No. of Direct Teaching hours							
Average No. of Dire	sverage No. of Direct Teaching hours/faculty							

Academic Audit Committee Members

S. No.	Name	Designation	Affiliation
1.			
2.			
3.			
4.			
5			

Dean (Academic) Principal

The academic audit committee members:

1. Dr. Shobha R. Patil : Chairman, Professor and Head, Dept. of ISE, BEC(A), Bagalkot

2.Dr. Sadhana P. Bangarashetti : Member, Professor, Dept. of ISE, BEC(A), Bagalkot

3.Prof. P. V. Kulkarni : Member, Associate Professor, Dept. of ISE, BEC(A), Bagalkot
 4.Prof. P. K. Deshpande : Member, Assisant Professor, Dept. of ISE, BEC(A), Bagalkot

5. Dr. Mahesh U. Nagaral : Member(External), Subject Expert, Associate Professor, BLDEAs, Dr. P. G. Halakatti, CET, Vijayapur

Academic audit report for the academic year 2020-21 is as shown below:



Basaveshwar Engineering College (Autonomous), Bagalkot

Internal Academic Audit from the Department

Name of the Department: Information Science & Engineering

Academic Year: 2020-21

Member

Semester: Even

Date of Audit: 16/04/2022

Member

I. Course Files

		1	2	3	4	5	
Parameter	Course Code	UIS403C	UIS424C	UIS608C	UIS613C	UIS065E	Remarks
	Initial of the faculty	GMP	VSP	PSP	DIK	CRS	
Student roll list		Υ	Υ	γ	Υ	Y	
Time table		Υ	Y	Υ	Υ	Y	
Syllabus copy		Y	Y	Y	Y	ν	
Course objectiv	es & outcomes	Y	Y	Y	ν .	· Y	
Academic calen	dar	Υ	Υ	Υ	Y	Y	
Lesson plan		Υ	γ	Υ	Y	Υ .	
Topics covered in beyond syllabus	ınder content	N	N	Υ	Y	Υ .	
No. of topics cov	ered using ICT	N	N	N	N	N	We set book
Innovations in te	achings (If any)	N	N	N	N	N	my aca 8276
SEE Question pa	pers	Y	Υ	Y	Υ	Υ	
CIE Question Pap	ers	Υ	Υ	Y	Υ	Y	
CO Assessment		Υ	Υ	Υ	Y	Y	
Calculation of inc	lirect attainment	N	Υ	N	N	N	Do CES to dothe
CO – PO Mapping Required)	(Justification if	Υ	Υ	Y	Υ	Υ	70 000
Course exit surve	y form	N	Y	N	N	N	DO CES infrue

Dr. S. R. Patil Dr. M. U. Nagaral Dr. S. P. Bangarashetti Prof. P. V. Kulkarni Prof. P. K. Deshpande

II. Actual Content Delivery

		1	2	3	4	5	
Parameter	Course code	UIS4030	UIS4240	UIS608C	UIS613C	UIS065E	Remarks
	Initial of the faculty	GMP	VSP	PSP	DIK	CRS	5
lo of classes allotted as រុ alendar and time table	52	52	66	40	52	Cati	
lo of classes engaged as egister	50	50	62	38	52	7	
ercentage of the syllabu	covered	100	100	98	98	100 .	

Dr. S. R. Patil
Chairman

Member

Dr. M. U. Nagaral
Member

Member

Member

Member

Member

Member

Member

II. Actual Content Delivery

		1	2	3	4	5	
Parameter	Course code	UIS4030	UIS4240	UIS608C	UIS613C	UISO65E CRS	Remarks
	Initial of the faculty	GMP	VSP	PSP	DIK		
No of classes allotted as calendar and time table	per academic	52	52	66	40	52	Cati
No of classes engaged as Register	per attendance	50	50	62	38	52	750
ercentage of the syllabi	us covered	100	100	98	98	100 .	

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Chairman

Member

Member

III. Assignments

		1	2	3	4	5	
Parameter	Course code	UIS403C	UIS424C	UIS608C	UIS613C	UIS065E	Remarks
	Initial of the faculty	GMP	VSP	PSP	DIK	CRS	
Mention the nur assignments give		01	25	02	03	01	
Nature of assignments (Descriptive/MCQ/program ming/simulation others)		мсо	Descriptive	Descriptive & Programming	Descriptive	Descriptive	Sa
Quality of question the scale 0 - 5)*	ons (Rate on	4	3	4	4	4	

*0 – Very poor, 1 – Poor, 2 – Average, 3 – Good, 4 – Very good, 5 - Excellent

UIS4246: VSP: Assignate are more. Engented to

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Member

IV. Evaluation

		1	2	3	4	5 .	Remarks
Parameter	Course code	UIS403C	UIS424C	UIS608C	UIS613C	UISO65E	
	Initial of Faculty	GMP	VSP	PSP	DIK	CRS	
Quality of CIE que: per Blooms taxonom		Υ	Υ	Υ	Υ	Υ	7
Pass percentage in	CIE	99	98.98	97.72	99.04	100	660
Quality of SEE question papers-(As per Blooms taxonomy or not) – Y/N		Υ	Υ	Υ	Υ	Υ	
Pass percentage in	SEE	97.98	97.98	96.15	93.75	100	

Enggestias: Internal scruting of CLE question papers maybe undoubted

ROUSE Chairman

Dr. S. R. Patil Dr. M. U. Nagaral Dr. S. P. Bangarashetti Prof. P. V. Kulkarni Member

Member

Prof. P. K. Deshpande Member

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V. Quality of Experiments and maintenance of proper lab records

		1	2	3	4		1
Parameter	Lab code	UIS421	UIS611	UIS612L	UIS410L	Remarks	
	Initial of the faculty	VSP	PSP	DIK	SNK		
No. of Experiments	as per syllabus	10	10	10	11	1	
No. of Experiments	Conducted	10	10	10	11		
Quality of Experiments (Rate on the scale 0 -5)*		4	4	4	4		Scalifor
Whether experiments are assessed soon after they are completed (Y/N)		Υ	Υ	Y	Y		
Percentage of exper design	iments involving	N	N	N	N		
No. of open ended e	xperiments given	N	N	N	N		

*0 - Very poor, 1 - Poor, 2 - Average, 3 - Good, 4 - Very good, 5 - Excellent

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VI. Quality of Projects and their evaluation as per suggested Rubrics

		1		3	4	5	
Parameter	Course code	UIS806F	UIS806F	UIS806P	UIS806P	UIS806P	1
	Initial of the guide		PSP	CRS	SNK	PKD '	Remarks
Nature of Project (HW/SW/Fabrication/Si	mulation)	sw	HW+SW	HW+SW	HW+SW	sw	
Quantity of work (Rate of 0 - 5)*	on the scale	3	4	4	4	4	7
Quality of the project (R scale 0 -5)*	ate on the	3	4	4	4	4	
Number of intermediate are conducted as per su ubrics		3	3	3	3	3	2
Whether financed from a Y/N)	any agency	N	N	N	N	N	
Whether supported by a Y/N)	ny industry	N	N	N	N	N	
deceived any awards/red	ognition or	N	N	N	N	N	

*0 – Very poor, 1 – Poor, 2 – Average, 3 – Good, 4 – Very good, 5 - Excellent

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Member

Member

VII. Quality of Internships and their evaluation as per suggested Rubrics

		1	2	3	4	5	
Parameter	Internship						Remarks
	Guide						,
Nature of internship (HW/SW/Fabrication/Simulati	ion/study)						
Duration of Internship	,,,,,				1		
Mode of Internship (Online/oi	ffline)		-1	A			
Paid internship from the indus	stry (Y/N)		1	2			
Quantum of work (Rate on the	scale 0 - 5)*		-		-	-	
Evaluated as per suggested rul	brics (Y/N)	1			-	-	

*0 – very poor, 1 – poor, 2 – average, 3 – good, 4 – very good, 5 - excellent

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Dr. S. R. Patil Dr. M. U. Nagaral Dr. S. P. Bangarashetti Prof. P. V. Kulkarni

Member

Prof. P. K. Deshpande

VIII. Details of workshops/conferences/FDP/SDP organized by the department: Attached

S. No	Title	Name of the		_
		coordinator	Funding agency	No. of participants
-				

2020-21

VIII. Details of workshops/conferences/FDP/SDP organized by the department

S. No	iide	Name of the coordinator	Funding agency	No. of	
		Dr. B. M. Reshmi	RISE	participant	
2.	Pre-Placement Traing Programme	Dr. B. M. Reshmi	RISE	23	
3.	Data Science and Analytics	Prof. P. K. Deshpande Dr. L. B. Bhajantri Prof. R. B. Math Prof. G. B. Shettar	RISE	150	
4.	ASP. Net and XML	Dr. S. R. Patil Prof. P. K. Deshpande	RISE	25	
5.	Advanced C Programming	Dr. S. R. Patil Prof. P. K. Deshpande Prof. V. S. Patil	RISE	100	
6.	Pre-Placement Traing Programme	Dr. B. M. Reshmi Prof. P. K. Deshpande	RISE	110	
7.	Revisiting "C"	Dr. S. R. Patil Prof. P. K. Deshpande Prof. V. S. Patil	RISE	80	

RISE-Rays of Information science and Engineering

Dr. S. R. Patil Dr. M. U. Nagaral Dr. S. P. Bangarashetti Prof. P. V. Kulkarni Prof. P. K. Deshpande

Details of academic load in the department

S. No	ranic or the faculty	No. of Courses		100	No. of eriods	Credits	Work load (Hrs.)	Remarks
		T	P	T	P		(1113.)	
1	Dr. S. R. Patil	2	-	6	-	6	6	
2	Dr.S.P.Bangarashetti	-	1	1	16	2	-	
3	P. V. Kulkarni	2	1	6	-		16	
4	P.S.Puranik	2	1	10		6	6	
5	Dr. A. D. Devangavi	2	-	-	12	9.5	22	
6	Dr. L. B. Bhajantri	2		8		8	8	
7	R. B. Math	_	-	8	-	4	10	
8	V S Patil	1	1	3	12	4.5	15	
9		2	1	10	12	9.5	22	
_	S N Kugali	2	1	6	12	7.5	18	
10	G M Patil	2	1	8	12	9.5	20	
11	P. K. Deshpande	2	1	10	12	11.5	22	
12	Deepa.l.K	2	1	6	12	7.5	18	
13	G B Shettar	2	1	6	12	7.5		
14	C.R.Shivanagi	2	1	8	12		18	
otal	No. of Direct Teaching ho	urs	-	0	14	9.5	20	
vera	ge No. of Direct Teaching	hour	0/600	ta			221	
	o o o ccc reaching	nour	s/racu	ity			15.78	

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Chairman

Dr. S. R. Patil Dr. M. U. Nagaral Dr. S. P. Bangarashetti Prof. P. V. Kulkarni

Member

Prof. P. K. Deshpande Member

Based on the suggestions/remarks by internal academic audit committe for the year 2020-21. The following actions as shown in the below table will be taken for the academic year 2021-22.

Sl. No.	Suggestions/Remarks	Action taken
01	Use of ICT tools.	Classrooms and laboratories are equipped with ICT tools. The faculty are using the tools for teaching process, wherever applicable.
02	Course exit survey to be conducted and results are to be used in assessing course level outcomes.	The course exit survey forms are designed and implemented in the academic year 2021-22. The results will be used for assessing the course outcomes.
03	Subject code UIS424C assignments are more suggested to reduce to four.	Faculty are informed.
04	Internal scrutiny of CIE question papers may be conducted.	Internal committee for scrutinizing CIE question paper will be formed and implemented in the academic year 2021-22.

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

Total Marks 10.00

Institute Marks: 10.00

Table 7.2. Placement, Higher studies and Entrepreneurs details

Sl. No.		Place				
	Academic Year	No. of students Placed	Highest LPA	Lowest LPA	Higher studies	Entrepreneurs
01	2018-19	68	5.0	1.2	08	01
02	2019-20	68	12	1.2	03	01
03	2020-21	67	15	2.5		01

Table 7.3. Placement details

		Academic Year									
Sl. No.	Name of the Company	2018	-19	2019-	-20	2020-21					
		No. of students Placed	LPA	No. of students Placed	LPA	No. of students Placed	LPA				
01	TCS Ninja	15	3.3	11	3.3	13	4.5				
02	Global Edge	01	3.0	03	3.0	0	0				
03	Silver Peak Global	01	4.2	0	0	0	0				
04	Infosys	06	3.6	05	3.5	07	3.6				
05	KodNest	05	2.4	01	2.4	0	0				
06	CMS IT Services	05	1.2	0	0	0	0				
07	Sasken	01	5.0	05	5.0	0	0				
08	OPPO Mobiles	02	3	0	0	0	0				
09	RIIIT	08	1.8	0	0	0	0				
10	HireCraft	01	2	0	0	0	0				
11	Mindtree	02	2.97	01	3.6	0	0				
12	Cerner	01	5	0	0	0	0				

				e - NDA									
13	Tata Consultancy Services	03	3.3	04	3.3	0	0						
14	Thinq Techno Systems	01	2.16	0	0	0	0						
15	Meru Info Solutions	01	1.9	0	0	0	0						
16	ICET IT Solutions	01	1.8	0	0	0	0						
17	Fiport	01	2.76	0	0	0	0						
18	IBM	02	3.3	03	4.25	0	0						
19	Qualitest	01	1.62	0	0	0	0						
20	Accenture	04	3.75	02	4.5	12	4.5						
21	Appsource	01	2.16	0	0	0	0						
22	TECHasitis	01	1.2	0	0	0	0						
23	BYJU's	01	3.0	0	0	0	0						
24	Ebix Technologies	01	3.0	0	0	0	0						
25	HCL Technologies	02	3.5	0	0	02	3.5						
26	GADGET	01	3.0	0	0	0	0						
27	Cognizant	01	2.1	03	4.0	03	2.5						
28	Capgemini	01	3.5	01	3.3	0	0						
29	Coreflex	01	3.0	0	0	0	0						
30	SLK	01	3.1	02	3.2	0	0						
31	Broadridge	01	3.2	0	0	0	0						
32	Mitel	01	7.0	0	0	0	0						
33	Maintec	01	3.0	0	0	0	0						
34	Cognizant	01	2.1	0	0	0	0						
35	DXC	01	3.5	0	0	0	0						
36	Karnataka State Electronics Development Corporation Limited	01	1.2	0	0	0	0						
37	Hexaware Technologies	0	0	01	3.2	0	0						
38	Wipro	0	0	01	3.5	05	5.0						
39	Qspider	0	0	01	1.8	0	0						
40	ABC	0	0	01	0.96	0	0						
41	Karnataka State Remote Sensing Application	0	0	01	1.8	0	0						
42	IQVIA	0	0	04	12.0	0	0						
43	SkyclipIT	0	0	01	1.2	0	0						
44	L & T	0	0	02	2.4	0	0						
45	Test Yantra	0	0	01	2.4	0	0						
46	Tech Mahindra	0	0	04	3.6	0	0						
47	Shashi Exports Pvt. Ltd.	0	0	01	1.5	0	0						
48	Тетга Рау	0	0	01	3.3	0	0						

49	Infinite	0	0	01	2.8	0	0
50	NTT DaTa	0	0	02	3.3	0	0
51	AJAPRO AI Technologies	0	0	01	2.4	0	0
52	amdocs	0	0	01	4.5	0	0
53	CGI	0	0	03	3.6	0	0
54	G&M Global Solutions	0	0	01	3.0	0	0
55	Deloitte	0	0	01	2.4	0	0
56	SONATA	0	0	01	3.0	0	0
57	AGGNE	0	0	01	4.5	05	2.5
58	Sigma	0	0	01	4.5	0	0
59	ADP	0	0	01	5.0	0	0
60	Bitwise	0	0	0	0	01	2.5
61	Bosch	0	0	0	0	01	2.5
62	EY	0	0	0	0	01	2.5
63	FORD	0	0	0	0	01	2.5
64	Girmiti Software Pvt. Ltd.	0	0	0	0	25	3.5
65	Herman Miller	0	0	0	0	01	3.5
66	Insystel	0	0	0	0	09	7.0
67	Mphasis	0	0	0	0	01	3.3
68	Pluribus Networks	0	0	0	0	01	15.0
69	Nggawe Nirman Technologies Private Limited	0	0	0	0	01	3.3
70	Nirman Technologies	0	0	0	0	07	3.3
71	RedBot innovations	0	0	0	0	02	3.5
72	Sagar Soft India	0	0	0	0	03	5.0
73	Sprinklr	0	0	0	0	01	3.3
74	TATA ELXSI	0	0	0	0	01	4.5
75	TCS Digital	0	0	0	0	01	3.3
76	Vayavya Labs	0	0	0	0	01	3.3
	Total	79		74		105	

Table 7.4. Higher Studies details

Sl. No.	Academic Year	USN	Student Name	Name of the college	Degree
01	2018-19	2BA16IS415	Suma Bilagi	Basaveshwar Engineering College, Bagalkot	M.Tech(CSE)
02		2BA15IS026	Ganga A Hadagali	Basaveshwar Engineering College, Bagalkot	M.Tech(CSE)

03		2BA16IS408	Md. Ibrahim Korti	Basaveshwar Engineering College, Bagalkot	M.Tech(CSE)
04		2BA16IS404	Deepa S. Kolar	Basaveshwar Engineering College, Bagalkot	M.Tech(CSE)
05		2BA15IS085	Veena Karalatti	KLE Technological University	M.Tech(CSE)
06		2BA15IS063	Sahana Munavalli	Basaveshwar Engineering College, Bagalkot	M.Tech(CSE)
07		2BA15IS055	Rachana R Sanni	BMS College of Engineerng, Bangalore	M.Tech(CSE)
08		2BA15IS041	Muneerabanu Attar	University Visvesvaraya College of Engineering , University Bangalore	M.Tech(CSE)
01		2BA16IS077	Sudharani	M. S. Ramaiah Institute of Technology, Bangalore	M.Tech(CSE)
02	2019-20	2BA17IS400	Akshay Malagan	R. V. College of Engineering, Bangalore	M.Tech(CSE)
03		2BA16IS048	Praful Kumar Shettar	Institute of Management Studies, Bagalkot	M.Tech(CSE)
01	2020-21				

Table 7.4. Entrepreneurship details

Sl. No.	Academic Year	Name of the Entrepreneur	Address
01	2018-19	Ms. Vidya Inamdar Founder	Instantittech technology Pvt. Ltd. #912,4 th Cross, Opposite City Union Bank, NS Road, near Sidappa Square, KR Mohalla, Mysuru -570004, Karnataka Contact number: 9620862939 E-mail ID: vidyaui017@gmail.com
02	2019-20	Mr. Bhargav Gumaste Fouder	MindVision Technologies Ltd. Abhi Anku Complex 3rd floor, Sector no 05 plot no 1/B kalidas circle, Bagalkot, Karnataka - 587103
03	2020-21	Mr. Harsha Kulkarni Co Founder	Tantramash Technology Ltd. P No. 233 Ravindra, Cchalukya Nagar 5th cross Badami, Bagalkot, Karnataka 587201 Contact number:7829840141 E-mail ID: harsha.rk007@gmail.com

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Institute Marks: 20.00

Item		2021-22	2020-21	2019-20
National Level Entrance Examination	No of students admitted	00	00	00
	Opening Score/Rank	00	00	00
	Closing Score/Rank	00	00	00
State/ University/ Level Entrance Examination/ Others	No of students admitted	94	79	82
, voet	Opening Score/Rank	20005	21513	21419
KCET	Closing Score/Rank	85425	122929	119461
Name of the Entrance Examination for Lateral Entry or lateral entry	No of students admitted	9	12	12
details	Opening Score/Rank	2771	3944	3944
KCET	Closing Score/Rank	14840	11935	11935
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		76	78	81

8 FIRST YEAR ACADEMICS (50)

Total Marks 46.62

8.1 First Year Student-Faculty Ratio (FYSFR) (5)

Total Marks 5.00

Institute Marks : 5.00

Please provide First year faculty information considering load

Name of the	PAN No.	Qualification	Date of Receiving	Area of Specialization	Designation	Date of	Tea	aching lo	ad (%)	Currently Associated	Nature Of Association (Regular	Date Of leaving(In case Currently Associated is
faculty member	PAN NO.	Qualification	Highest Degree	Area of Specialization		joining	CAY	CAYm1	CAYm2	(Yes / No)	/ Contract)	'No')
Dr. B.G.Sheepa	AGZPS8065Q	ME/M. Tech and PhD	20/10/2010	MEMS Embedded systems	Professor	23/03/1993	35	0	0	Yes	Regular	
Prof. Shashidh	ACMPH6336G	M.E/M.Tech	26/10/2010	VLSI Design and Embedded systems	Assistant Professor	02/05/2005	50	0	0	Yes	Regular	
Prof. Anand Ur	ABLPU4394D	M.E/M.Tech	15/10/2009	Digital electronics and communication system	Assistant Professor	16/08/2007	44	0	0	Yes	Regular	
Prof. Sharanap	ACQPH5255E	M.E/M.Tech	26/09/2013	Internet of things	Assistant Professor	18/09/2008	13	13	13	Yes	Regular	
Prof. B.Veeresl	ACHPV3036G	M.E/M.Tech	24/12/2000	Control system	Associate Professor	11/11/1994	50	0	70	Yes	Regular	
Prof. B.M.Anga	AUHPA5159R	M.E/M.Tech	27/09/2015	Wireless sensor networks	Assistant Professor	02/08/2010	75	75	75	Yes	Regular	
Prof. Supriya H	AFQPH0705N	M.E/M.Tech	21/12/2010	Digital communication	Assistant Professor	16/09/2010	40	40	0	Yes	Regular	

Prof. Poornima	APMPC1605G	M.E/M.Tech	09/05/2015	Digital electronics and communication system	Assistant Professor	19/11/2011	18 18 0	Yes	Regular	
Dr. A.H. Agadi	ADWPA1909K	M.Sc. and PhD	04/04/2017	Fluid Dynamics	Assistant Professor	14/11/2005	25 25 25	Yes	Regular	
Sri. I. M. Police	ABEPI8253N	M.Sc	25/03/2002	Fluid dynamics	Assistant Professor	18/02/2008	25 25 25	Yes	Regular	
Smt. V. M. Pud	BDMPP6948J	M.Sc	11/06/1998	Mathematics	Assistant Professor	14/11/2008	50 50 50	Yes	Regular	
Dr. B. F. Ronac	AZGPR6933A	ME/M. Tech and PhD	29/01/2018	SPV Based irrigation systems	Professor	04/10/2010	50 50 50	Yes	Regular	
Dr. R. L. Naik	ABNPN9774A	ME/M. Tech and PhD	09/05/2015	Power electronics and wecs	Professor	23/05/1997	50 50 0	Yes	Regular	
Mr. S.M.Patil	ACIPP7508E	M.E/M.Tech	02/08/1991	Machine Drives and Power Electronics	Associate Professor	06/02/1987	50 50 100	Yes	Regular	
S. S. Gujarathi	AAUPG9390H	MCA	23/03/2004	Computer Applications	Assistant Professor	03/10/2003	100 0 0	Yes	Regular	
Sudha K. S.	BRDPS2807L	MCA	25/02/2007	Computer Applications	Assistant Professor	06/06/2007	100 100 100	Yes	Regular	
S. M. Magi	ASHPM2795F	MCA	25/02/2007	Computer Applications	Assistant Professor	19/10/2007	100 100 100	Yes	Regular	
M. H. Shirur	CBVPS1118M	MCA	12/03/2008	Computer Applications	Assistant Professor	25/09/2009	100 100 100	Yes	Regular	
C. M. Jangin	APWPJ2652Q	MCA	15/06/2006	Computer Applications	Assistant Professor	26/09/2012	100 100 100	Yes	Regular	
Dr. P. G. Rakar	ABBPR9784N	ME/M. Tech and PhD	12/03/2013	Geotechnical Engg	Associate Professor	02/05/1988	50 50 50	Yes	Regular	
Prof. B. S. Hara	AAEPH5129F	M.E/M.Tech	03/03/1998	Structural Engg	Associate Professor	14/08/1985	100 100 100	Yes	Regular	
Dr. S. H. Sanni	ANOPS2680R	ME/M. Tech and PhD	09/01/2018	Structural Engg	Associate Professor	28/02/2000	33 33 33	Yes	Regular	
Prof. S. A. Kan	BTNPK5604H	M.E/M.Tech	18/04/2011	Structural Engg	Assistant Professor	04/10/2011	50 50 50	Yes	Regular	
Dr. P. L. Timma	ACBPT8402A	M.Sc. and PhD	17/01/1997	Kinetics and Catalysis	Professor	12/03/1997	100 100 100	Yes	Regular	
Dr. S. K. Patil	ASEPP4343H	M.Sc. and PhD	16/08/2013	Coordination Chemistry	Associate Professor	03/10/1997	100 100 100	Yes	Regular	
Dr. V. R. Kattim	AVSPK1884H	M.Sc. and PhD	16/12/2015	Fuel Technology	Assistant Professor	03/12/1997	100 100 100	Yes	Regular	
Prof. A.B.Kiras	GUXPK1290P	M.Sc	20/10/2017	Organic Chemistry	Assistant Professor	29/01/2020	100 100 100	Yes	Regular	

Dr. K Chandras	ADOPC6302N	M.Sc. and PhD	21/12/1996	Ultrafast Spectroscopy	Professor	28/06/2000	100 100 100	Yes	Regular	
Dr. J. G. Ghant	AKDPG7032K	M.Sc. and PhD	29/02/1996	Solid state Physics	Professor	11/07/2007	100 100 100	Yes	Regular	
Dr. S. U. Durga	AAQPH0836B	M.Sc. and PhD	10/05/2012	material scienceMagneto electric composites	Assistant Professor	21/12/1990	100 100 100	Yes	Regular	
Smt. R. P. Araç	ADDPA6843M	M.Sc	01/04/1996	Nuclear Physics	Assistant Professor	26/01/1997	100 100 100	Yes	Regular	
Prof. S. S. Bop	AFMPB1895D	M.Sc	12/06/1993	Solid State physics	Assistant Professor	01/01/1998	100 100 100	Yes	Regular	
Dr. V. S. Katti	BRYPK7795L	M.Sc. and PhD	11/06/2013	Solid State physics	Assistant Professor	31/01/2022	100 0 0	Yes	Regular	
Dr. B.G.Hokrar	ADSPH7012G	ME/M. Tech and PhD	13/09/2017	International Trade	Assistant Professor	21/08/2006	100 100 100	Yes	Regular	
Dr. Bharati.S.N	AORPK1450R	M.Sc. and PhD	01/09/2005	Biofuels and Food processing	Professor	18/09/2003	15 15 15	Yes	Regular	
Dr. Sharada P.	AMQPP9641Q	M.Sc. and PhD	06/03/2013	Biotechnology	Associate Professor	13/05/2005	16 16 16	Yes	Regular	
Dr.Madhumala	ASEPP4336N	M.Sc. and PhD	03/04/2021	Bioremediation	Assistant Professor	02/02/2007	15 15 15	Yes	Regular	
Dr.Premjyoti C.	BDHPP6855M	M.Sc. and PhD	03/04/2021	Algal Biofuels	Assistant Professor	09/02/2007	19 19 19	Yes	Regular	
Prof. Preeti S.	BEQPK8422K	M.Phil	20/11/2008	Photochemistry	Assistant Professor	19/02/2007	19 19 19	Yes	Regular	
Dr Shilpa.K. Jiç	ANCPJ1342F	M.Sc. and PhD	23/01/2010	Biochemistry	Assistant Professor	04/10/2010	20 20 20	Yes	Regular	
Prof.H.R.Patil	AJYPP4303J	M.E/M.Tech	26/02/2007	Management	Associate Professor	12/01/1996	50 0 0	Yes	Regular	
Dr.H.M.Kadlim	AGRPK7310C	ME/M. Tech and PhD	30/12/2019	Thermal	Assistant Professor	20/05/1997	50 0 50	Yes	Regular	
Dr.S.M.Jigajinn	AESPJ7057G	ME/M. Tech and PhD	17/05/2013	Material Science	Assistant Professor	02/02/2007	50 50 50	Yes	Regular	
Prof.R.S.Naik	AKDPR3028E	M.E/M.Tech	10/09/2003	Production	Assistant Professor	02/02/2007	50 0 0	Yes	Regular	
Prof.P.B.Bajant	BSEPB3627B	M.E/M.Tech	11/01/2016	Production	Assistant Professor	16/02/2016	50 50 50	Yes	Regular	
Dr.G.B.Rudrak	ABBPR9790G	ME/M. Tech and PhD	23/06/2005	Production	Professor	28/05/1987	50 0 0	Yes	Regular	
Prof.S.B.Wada	AAEPW8047P	M.E/M.Tech	26/02/2007	Production	Assistant Professor	11/11/1992	50 50 50	Yes	Regular	

Dr.R.V.Kurahat	AGXPK9887E	ME/M. Tech and PhD	10/11/2012	Metallurgy	Assistant Professor	24/02/2000	50 0 50	Yes	Regular	
Prof.B.S.Viveka	AKHPV5926D	M.E/M.Tech	12/03/2008	Production	Assistant Professor	07/09/2002	50 50 50	Yes	Regular	
Prof.S.S.Davar	AHEPD4884C	M.E/M.Tech	15/09/2011	Design	Assistant Professor	02/01/2012	50 0 0	Yes	Regular	
Dr.A.N.Sonnad	CRKPS8566G	ME/M. Tech and PhD	21/05/2014	Production	Assistant Professor	21/05/2014	50 0 0	Yes	Regular	
Prof.V.P.Girisa	AGYPJ3993J	M.E/M.Tech	22/09/2007	Production	Assistant Professor	15/02/1995	50 50 0	Yes	Regular	
Dr.S.G.Sargan	AONPS3731D	ME/M. Tech and PhD	02/08/2011	Design	Assistant Professor	01/09/1997	50 50 0	Yes	Regular	
Dr. V. M. Shetta	AFAPS4307M	M.Sc. and PhD	25/03/2014	Graph Theory	Associate Professor	31/10/1994	0 50 50	Yes	Regular	
Dr. M. M.Birada	APFPB7125K	M.Sc. and PhD	28/07/2008	Fluid Dynamics	Associate Professor	23/03/2009	0 40 40	Yes	Regular	
Dr. K. Rama Pı	ARGPR7665H	M.Sc. and PhD	17/02/2010	Fluid mechanics	Associate Professor	08/01/2011	0 50 50	Yes	Regular	
Dr. S. V. Gurus	AENPG9021L	M.Sc. and PhD	28/12/2019	Topology	Assistant Professor	17/06/1999	0 25 25	Yes	Regular	
Prof. R.G. Patil	ADNPP6785B	M.E/M.Tech	24/12/1993	Electrical Machines	Associate Professor	19/02/1987	0 100 100	Yes	Regular	
Prof. V. C. Jair	BAVPJ8138A	M.E/M.Tech	11/12/2014	PG power and energy system	Assistant Professor	11/11/2016	50 100 100	Yes	Regular	
Prof. Nanda P	ADTPP8906A	M.E/M.Tech	06/02/1987	Computer Networks	Associate Professor	20/02/1987	100 75 50	Yes	Regular	
Prof. V. B. Hun	ACTPH4034J	M.E/M.Tech	07/01/2010	Computer Science and Engg	Associate Professor	03/10/2006	0 100 100	Yes	Regular	
Prof.R.T.Patil	ADSPP9404A	B.E/B.Tech	29/12/1984	Design	Assistant Professor	05/11/1984	0 100 100	Yes	Regular	
Prof.G.K.Patil	AFSPP6671H	B.E/B.Tech	06/05/1988	Design	Assistant Professor	13/11/1989	0 50 0	Yes	Regular	
Prof.K.D.Aswal	AKXPA8850F	M.E/M.Tech	23/02/2004	Production	Assistant Professor	24/09/2003	0 50 50	Yes	Regular	
Prof. S.C.Hiren	AALPH0474L	M.E/M.Tech	17/04/2003	Power Electronics	Associate Professor	01/10/1994	34 0 0	Yes	Regular	
Prof. S. S. Ratl	CDEPR9140M	M.E/M.Tech	05/05/2016	Power Systems	Associate Professor	06/02/1987	0 0 50	Yes	Regular	
Prof. S. S. Tam	ANTPT2332A	M.E/M.Tech	07/01/2010	Power and Energy Systems	Assistant Professor	02/05/2005	0 0 50	Yes	Regular	

Dr. M. M. Hana	AATPH0254N	ME/M. Tech and PhD	19/09/2015	Structural Engg	Associate Professor	06/12/1997	0 0 50	Yes	Regular	
Prof. B. R. Hire	AAUPH4098K	M.E/M.Tech	07/11/2019	Environmental Engg	Associate Professor	23/07/1994	0 0 50	Yes	Regular	
Prof. G. S. Hire	AACPH6400R	M.E/M.Tech	08/04/2012	Structural Engg	Assistant Professor	04/10/2011	0 0 50	Yes	Regular	
Miss. L.P.Chan	BCXPC1963Q	M.Sc	09/10/2018	General Chemistry	Assistant Professor	29/01/2020	0 100 100	Yes	Regular	
Mrs. V.P. Vasar	BDXPV2114B	M.Sc	22/04/2015	General Chemistry	Assistant Professor	29/01/2020	0 100 100	Yes	Regular	
Sri. S. B. Nava	ARNPN8477A	M.Sc	03/06/2009	Spectroscopy	Assistant Professor	17/09/2012	0 0 100	Yes	Regular	
Prof.P.C.Kolur	CIHPK7012F	M.E/M.Tech	20/08/2011	Design	Assistant Professor	02/03/2016	0 0 50	Yes	Regular	
Dr.S.N.Kurbet	ABYPK8528Q	ME/M. Tech and PhD	18/02/2000	Design	Professor	12/11/1984	0 0 50	Yes	Regular	
Dr.S.S.Balli	ACHPB4002A	ME/M. Tech and PhD	28/02/2004	Design	Professor	18/02/1987	0 0 50	Yes	Regular	
Prof.B.R.Endig	AAGPE5221M	M.E/M.Tech	10/09/2005	Design	Assistant Professor	19/03/2003	0 0 50	Yes	Regular	

Year	1 7 7	Number of Faculty members(considering fractional load) F	FYSER (N/E)	*Assessment=(5*20)/FYSFR(Limited to Max.5)
2019-20(CAYm2)	90	39	2	5
2020-21(CAYm1)	90	34	3	5
2021-22(CAY)	90	33	3	5
Average	90	35	2	5

AverageFYSFR: 0.00

Assessment [(5 * 15) / AverageFYSFR]: 5.00

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Total Marks 5.00

Institute Marks: 5.00

Year	x (Number Of Regular Faculty with Ph.D)	y (Number Of Regular Faculty with Post graduate Qualification)	RF (Number Of Faculty Members required as per SFR of 20:1)	Assessment Of Faculty Qualification [(5x + 3y) / RF]
2019- 20	27	35	5	48.00
2020- 21	29	38	5	51.00
2021- 22	31	38	5	53.00

Average Assessment: 50.67

8.3 First Year Academic Performance (10)

Total Marks 6.62

Institute Marks: 6.62

Academic Performance	CAYm1(2020-21)	CAYm2(2019-20)	CAYm3 (2018-19)
Mean of CGPA or mean percentage of all successful students(X)	7.02	6.82	6.61
Total Number of successful students(Y)	596.00	619.00	578.00
Total Number of students appeared in the examination(Z)	596.00	619.00	634.00
API [X*(Y/Z)]	7.02	6.82	6.03

Average API[(AP1+AP2+AP3)/3]: 6.62

Assessment = Average API: 6.62

8.4 Attainment of Course Outcomes of first year courses (10)

Total Marks 10.00 Institute Marks : 5.00

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

Assessment Tools:

Continuous Internal Assessment (40 marks for theory courses, 50 marks for laboratory courses, projects and seminars)

A teacher compiles the data of continuous internal (I and II) assessment in his/her subject. The teacher then enters the marks through the online software provided by the institute. Three hard copies are signed, one for examination section, one for department and one for self.

Semester End Assessment (50 marks for all courses, 50 marks for laboratory courses, projects and seminars)

The data of semester end assessment of a subject is compiled by internal and external teacher. The teacher then enters the marks through the online software provided by the institute. One hard copy is signed and is submitted to the institute. These records are maintained by examination section.

Assignments/Quizzes/MCQs/Group Works (for 10 marks)

Any or all of these may be used as decided by the respective course teacher. The teacher also decides the number of assignments, quizzes, MCQ based tests and group works during the semester.

Question Paper Pattern of Internal evaluation is as shown in below:

PART A

Q.No.1	Q.No.1 10 Marks Covers syllabus from Unit I and II for CIE-I, Unit-III and IV for CIE - II									
		PART B								
Q.No.2	15 Marks	Covers syllabus from Unit – I for CIE – I, Unit- III for CIE-II	Anyone	to	be					
Q.No.3	15 Marks	Covers syllabus from Unit – I for CIE – I, Unit- III for CIE-II	answered							
Q.No.4	15 Marks	Covers syllabus from Unit – II for CIE – I, Unit- IV for CIE-II	Anyone	to	be					
Q.No.5	15 Marks	Covers syllabus from Unit – II for CIE – I, Unit- IV for CIE-II	answered							

Question Paper Pattern for SEE examinations is as shown in below:

		PART A					
Q.No.1 20 Marks Covers syllabus from Unit I, II, III and IV Multiple choice questions/one mark questions/two mark questions							
	1	PART B					
		(Maximum 4 sub-questions in each question)					
Q.No.2	20 Marks	Covers syllabus from Unit – I	Anyone to b				
Q.No.3	20 Marks	Covers syllabus from Unit – I	answered				
Q.No.4	20 Marks	Covers syllabus from Unit – II	Anyone to b				
Q.No.5	20 Marks	Covers syllabus from Unit – II	answered				
Q.No.6	20 Marks	Covers syllabus from Unit – III	Anyone to b				
Q.No.7	20 Marks	Covers syllabus from Unit – III	answered				
Q.No.8	20 Marks	Covers syllabus from Unit – IV	Anyone to b				
Q.No.9	20 Marks	Covers syllabus from Unit – IV	answered				

The following method has been adopted for Attainment Levels for Continuous Internal Evaluation (CIE).

• Attainment Level 3: >=60%

• Attainment Level 2: >=40%

• Attainment Level 1: <40%

The following method has been adopted for Attainment Levels for Semester End Examination(SEE).

• Attainment Level 3: >=60%

• Attainment Level 2: >=40%

• Attainment Level 1: <40%

Target and Attainment of all course COs using Continuous Internal Evaluation (CIE) is as shown in table 3.1.

CO - Course Outcome TGT - Target ATM - Attainment

8.4.2 Record the attainment of Course Outcomes of all first year courses (5)

Target and Attainment of COs using Continuous Internal Evaluation (CIE) is as shown in below:

Continuous Internal Evaluation (CIE)

Course Code CO1 CO2 CO3 CO4 CO5 CO6

Institute Marks: 5.00

	TGT	ATM	TGT	ATM	TGT	ATM	TGT	ATM	TGT	ATM	TGT	ATM
					Sen	nester 1						
UMA161C	40.00	41.00	40.00	35.00	40.00	46.00	40.00	51.00	40.00	67.00	40.00	52.00
UPH162C	40.00	32.00	40.00	27.00	40.00	17.00	40.00	29.00	40.00	43.00	40.00	24.00
UME163C	40.00	31.00	40.00	28.00	40.00	35.00	40.00	35.00				
UEE164C	40.00	49.00	40.00	15.00	40.00	38.00	40.00	18.00	40.00	23.00		
UCS165C	40.00	32.00	40.00	20.00	40.00	15.00	40.00					
UPH166L	70.00	77.24	70.00	77.24	70.00	77.24	70.00	77.24				
UCS167L	70.00	76.17	70.00	76.17	70.00	76.17	70.00	76.17	70.00	76.17		
		ı			Sen	nester 2		ı	I			
UMA261C	40.00	63.00	40.00	79.00	40.00	39.00	40.00	42.00	40.00	83.00	40.00	25.00
UCH268C	40.00	28.00	40.00	25.00	40.00	45.00						
UEC269C	40.00	33.00	40.00	81.00	40.00	35.00	40.00	43.00	40.00	28.00	40.00	37.00
UCV270C	40.00	33.00	40.00	35.00	40.00	25.00	40.00	38.00				
UME271L	70.00	84.10	70.00	84.10	70.00	84.10	70.00	84.10				
UCH272L	70.00	89.74	70.00	89.74	70.00	89.74	70.00	89.74				

Target and Attainment of COs using Semester End Examination (SEE) is as shown in below:

				Seme	ster End	Examinati	on (SEE)					
Course Code	CO1		CO2		C	O3 CO4		O4	4 CO5		С	06
Course Code	TGT	ATM	TGT	ATM	TGT	ATM	TGT	ATM	TGT	ATM	TGT	ATM
					Ser	nester 1						
UMA161C	40	42	40	35	40	47	40	73	40	58	40	43
UPH162C	40	22	40	28	40	23	40	21	40	26	40	16
UME163C	40	26	40	23	40	29	40	27				
UEE164C	40	46	40	24	40	36	40	31	40	17	40	13
UCS165C	40	36	40	23	40	27	40	24	40	34		
	I	I		I	Ser	nester 2		I	l	I	I	I
UMA261C												
UCH268C												
UEC269C												
UCV270C					Pı	omoted du	e to pande	mic				
UME271L												
UCH272L												

Course Outcomes Attainment Levels is as shown in below:

Course			Attainment	of COs - CIE					Attainment	of Cos - SEE				A	verage Atta	inment Level	ls	
Code	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
C101.1	2	1	2	2	3	2	2	1	2	3	2	2	2	1	2	2.5	2.5	2
C101.2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1.5	1
C101.3	1	1	1	1			1	1	1	1			1	1	1	1		
C101.4	2	1	1	1	1		2	1	1	1	1		2	1	1	1		
C101.5	1	1	1				1	1	1				1	1	1			
C101.6	3	3	3	3				•	•	•	•	•	3	3	3	3		
C101.7	3	3	3	3	3								3	3	3	3	3	
C102.1	3	3	1	2	3	1							3	3	1	2	3	1
C102.2	1	1	2						D 4 4				1	1	2			
C102.3	1	3	1	2	1	1			Promoted du	e to pandemic			1	3	1	2	1	1
C102.4	1	1	1	1			1						1	1	1	1		
C102.5	3	3	3	3									3	3	3	3		
C102.6	3	3	3	3									3	3	3	3		

8.5 Attainment of Program Outcomes from first year courses (20)

Total Marks 20.00

8.5.1 Indicate results of evaluation of each relevant PO and/or PSO if applicable (10)

Institute Marks: 10.00

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101.1	3	3	3	0	0	0	3	0	0	0	0	0
C101.2	1	1	1	0	1	1	1	1	1	1	0	1
C101.3	2	2	2	2	2	2	2	2	2	2	2	2
C101.4	1	1	1	1	0	1	1	0	1	1	1	1
C101.5	1	1	1	1	1	1	0	1	1	1	1	1
C101.6	3	3	0	3	3	3	3	3	3	3	0	3
C101.7	1	1	1	1	1	1	0	1	1	1	1	1
C102.1	2	2	2	0	0	0	2	0	0	0	0	0
C102.2	2	2	0	2	0	2	2	0	0	0	0	2
C102.3	2	2	2	0	2	2	0	0	0	0	0	2
C102.4	2	2	0	0	0	0	0	0	0	0	0	0
C102.5	3	3	3	3	3	3	3	0	3	3	0	3
C102.€	3	3	0	0	0	3	3	3	0	0	0	3

PO Attainment Level

PSOs Attainment:

Course	PSO1	PSO2	PSO3
C101.1	2	1	1
C101.2	1	1	1
C101.3	2	1	2
C101.4	1	1	1
C101.5	1	1	1
C101.6	3	3	3
C101.7	1	1	1
C102.1	2	1	0
C102.2	1	1	1
C102.3	1	1	1
C102.4	1	0	0
C102.5	3	3	3
C102.6	3	3	3

PSO Attainment Level

Course	PO1	PO2	PO3
Direct Attainment	1.69	1.5	1.64
PSO Attainment	1.69	1.5	1.64

8.5.2 Actions taken based on the results of evaluation of relevant POs and PSOs (10)

Institute Marks: 10.00

POs Attainment Levels and Actions for Improvement- (2020-21)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2	2	Satisfactory

Action1: Target revised to 2.5 Action2: Conduct extra classes in basic science and engineering sciences courses. Action3: Solve more problems.				
PO 2 : Problem Analysis				
PO 2	2	2	Satisfactory	
Action1: Target revised to 2.5 Action	on2: Include ability enhancement courses			
PO 3 : Design/development of S	olutions			
PO 3	2	2	Satisfactory	
Action1: Target revised to 2.5 Action	on2: Include ability enhancement courses			
PO 4 : Conduct Investigations o	f Complex Problems			
PO 4	2	2	Satisfactory	
Action1: Target revised to 2.5 Action	on2: Include ability enhancement courses			
PO 5 : Modern Tool Usage				
PO 5	2	2	Satisfactory	
Action1: Target revised to 2.5 Action	on2: Include skill enhancement courses.			
PO 6 : The Engineer and Society	1			
PO 6	2	2	Satisfactory	
Action1: Target revised to 2.5 Action	on2: AICTE has introduced 100 point activities			
PO 7 : Environment and Sustain	ability			
PO 7	2	2	Satisfactory	
Action1: Target revised to 2.5 Action2: AICTE has introduced 100 point activities				
PO 8 : Ethics				
PO 8	2	2	Satisfactory	
Action1: Target revised to 2.5 Action	Action1: Target revised to 2.5 Action2: Adherence to institutional code of conduct and standards of processional bodies.			
PO 9 : Individual and Team Worl	k			
PO 9	2	2	Satisfactory	
Action1: Target revised to 2.5 Action	on2: Conduct Science exhibitions in groups of st	udents.		
PO 10 : Communication				
PO 10	2	2	Satisfactory	
Action1: Target revised to 2.5 Action2: Conduct presentations and seminars in some of the basic engineering courses.				
PO 11 : Project Management and Finance				
PO 11	2	1	Not attained	
Action1: Target is retained. Action2	2: Offering a course on Project Management Acti	on3: Inclusion of finance management concepts		
PO 12 : Life-long Learning				
PO 12	2	2	Satisfactory	

Action1: Target revised to 2.5 Action2: Motivated to take online certification courses.

PSOs Attainment Levels and Actions for Improvement- (2020-21)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : To demonstrate the abilit	ties to apply the basic science and engineeri	ng fundamentals to solve complex engineeri	ng problems in the society.

PSO 1 1.5 1.69 Target attained. Hence same procedures will be continued for next year. Action1: Target revised to 1.75 Action2: Conduct quest lectures, seminars/webinars and SDPs for first year students

PSO 2 : To demonstrate the abilities to provide information and communication technology solutions using modern engineering and IT tools at affordable cost working as a team member.

PSO 2 1.5 1.54 Target attained. Hence same procedures will be continued for next year.

Action1: Target revised to 1.75 Action2: Conduct awareness programmes and trainings on usage of modern tools. Action3: Use of ICT tools.

PSO 3: To exhibit ethical, social and professional responsibilities and engage in life long learning.

PSO 3	1.5	1.69	Target attained. Hence same procedures will be continued for next year.
Action 1. Torget revised to 1.75 Action	and, adherence to Institutional and as and stands	arda Astiana, Ctudanta ara mativatad ta ragiatar	online certification courses

Action1: larget revised to 1.75 Action2: adherence to Institutional codes and standards. Action3: Students are motivated to register online certification courses.

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

9.1 Mentoring system to help at individual level (5)

Total Marks 5.00

Institute Marks: 5.00

Type of mentoring:

Professional guidance/career advancement/course work specific/ laboratory specific/total development:

Total developmet (Mentoring covers all types of guidance):

Number of faculty members All the faculty in each programme

Number of students per mentor Approximately 10 students from each year

Frequency of meeting Scheduled once in every 15 days and also need based

In each program, every faculty is assigned 10 students in an academic year. The students interact with the faculty advisor at least once in 15 days. This also facilitates the pre-registration guidance and enables students to take right courses and appropriate electives. The faculty encourages the students to discuss their ideas and problems in person. The faculty keeps track of the attendance and progress of the students assigned to him. All the details of the students are maintained by the faculty. The same information is reported to the HoD/Principal along with necessary measures taken. They also provide advice on career matters. This has created a healthy and congenial atmosphere on the campus.

9.2 Feedback analysis and reward /corrective measures taken, if any (10)

Total Marks 10.00

Institute Marks: 10.00

A.The Feedback methodology

Feedback Process Exist: Yes

At the end of every, semester feedback is collected through an online process system from all the students for all the courses.

Feedback Analysis Process:

The suggestions are analyzed by the concerned HOD. Every question has a weightage up to 10 points. Based on the average points accrued for all the questions the faculty performance level is assessed.

The performance of the teacher is graded as below:

More than 8 points : Excellent
From 6 to 8 : Good
From 5 to 6 : Average

Below 5 The teacher is subjected for any corrective measures as decided by Head of the

Department

System of reward:

Performance rating of faculty through student feedback system is one of the factors in evaluating the annual performance of the faculty. Based on the feedback received from the students the faculty is rewarded by issuing a letter of appreciation from the Head of the Department during the annual day function of the department.

B. Corrective Measures:

i) Faculty

- The teachers who secure a grade less than 5.0 are counseled by the HOD on how to improve the teaching-learning process. Both study the metrics and the method for effective teaching is charted out, for improvement.
- · Continuing education programs are conducted for the faculty.
- · The faculty is deputed for training in their subject domain.

ii) Students

Counseling is done for identified weak students. Remedial classes are conducted.

iii) Course contents

If suggested by the faculty the modification of the course contents is thought and discussed in the faculty meetings and carried to the consent of BOS.

Number of corrective actions taken in the last three years: Nil

The most common source of input to teaching evaluation is feedback from students. Appraisal and feedback have a strong positive influence on teachers and their work. Feedback system has increased teachers job satisfaction.

9.3 Feedback on facilities (5)

Total Marks 5.00

Institute Marks: 5.00

At the end of every year, feedback on facilities required are taken with the permission of the administration/management. A sample format of feedback form is as shown in below:



B. V. V. Sangha's
Basaveshwar Engineering College (Autonomous), Bagalkot
Department of Information Science and Engineering

FACILITIES

Rate your respons	e		
1. The Ambience of lal	boratories & class rooms of the departmen	nt	
a. Not at all	b. Marginally Satisfactory	c. Satisfactory	d. Excellent
2. Computing facilities	in the department		
a. Not at all	b. Marginally Satisfactory	c. Satisfactory	d. Excellent
3. Reprographic facilit	ies		
a. Not at all	b. Marginally Satisfactory	c. Satisfactory	d. Excellent
Internet connectivity	(wifi/wired)		
a. Not at all	b. Marginally Satisfactory	c. Satisfactory	d. Excelient
5. Department library (availability		
	b. Marginally Satisfactory	c. Satisfactory	d. Excellent
a. Not at all	b. Marginally Satisfactory	c. Satisfactory	d. Excellent
6. Drinking Water			
a. Not at all	b. Marginally Satisfactory	c. Satisfactory	d. Excellent
Name:			Signature
USN:			

9.4 Self-Learning (5) Total Marks 5.00

Institute Marks : 5.00

A. Scope for self-learning

Self-learning is promoted through various activities viz. assignments, seminars and project work. Assignments on various topics, group tasks, hobby projects, seminars on recent topics by students, guest lectures are different modes through which self-learning is facilitated. Students are also encouraged towards self-learning through personal counseling and organizing various contests.

To facilitate self-learning the following activities are incorporated in curriculum:

- The pre-final and final year students have to give seminars on latest topics/technologies
- · Each course has 5 marks weightage for assignments/Quizes/seminars.
- · Mini projects/Projects have to be carried out at the third and final year level.
- NPTEL/SWAYAM/Coursera/Webinars/Seminars, etc.

B. The institution provides the following facilities for learning beyond syllabus:

- · Campus wide Wi-fi facility is setup. This facilitates learning beyond college hours.
- The reading room is kept open up to 10 pm.
- A digital library is setup to facilitate online access of the information.
- · Course material and laboratory manuals are provided.
- · Invited talks, Seminars, workshops on latest technologies/tools are organized
- . Motivating the students to participate in inter-college events for paper presentation, technical fests and project exhibitions with financial assistance.
- · Quiz competitions and group discussions are organized for students
- NPTEL (National Project on Technology Enhanced Learning): Access to online learning material prepared by IIT and other esteemed institutions is hosted on institution server.
- · QEEE (Quality Enhancement in Engineering Education): Online classes from IIT faculty are accommodated within the curriculum and telecast live to students.
- . BOSCH REXROTH (Centre for industrial automation): The objective of the center is to train UG/PG students towards industrial automation and enhance placement opportunities.
- · INTEL Intelligent Systems Laboratory: An exclusive lab is set up in association with INTEL to carry out innovative projects.
- · Nokia Innovation Lab: Simulating lab for next generation mobile networks.
- · SCADA Lab: Centralized campus wide load monitoring facility is created for analyzing the power distribution/consumption.
- · Institute is registered as member of National Digital Library (NDL).
- · Institute is registered as a member of DELNET
- 5000 CDs are mirrored in the server for supporting curriculum activities and learning beyond syllabus.
- · Virtual laboratory facility has been deployed in the campus.
- · Facilities are created in the library for MHRD initiatives like Swayam, Shakshat, Shodhaganga and Shodhasindhu.

9.5 Career Guidance, Training, Placement (10)

Total Marks 10.00

Institute Marks: 10.00

Placement Cell Activities:

HRD training program is conducted from 1st year onwards. The institution also arranges through placement cell (EDC) are set-up to facilitate internship and organize Entrepreneurship awareness programmes. Campus training is conducted for final year/pre-final year students to identify the right choice for the career advancement. The placement cell also organizes alumni meets, Guest lectures etc.

Counseling for Higher Studies:

Faculty counselors motivate the students to pursue higher studies and also take up competitive exams. The college arranges coaching classes for students appearing GATE exams and entrance exams for defence services.

9.6 Entrepreneurship Cell

Total Marks 5.00

Institute Marks : 5.00

Entrepreneurship cell:

India's future depends critically on its ability to compete fully in the creative economy - not just in technology and software. Today innovation is a key behind technological development. Campuses are the right places to breed innovation. The emphasis in present university system of technical education is not focused on innovation and entrepreneurship. A need was felt to create awareness amongst the students about "Entrepreneurship as a career option" hence EDC was set up in March 2006.

Since the inception of EDC, every week a training programme is conducted on various aspects of entrepreneurship. These activities have enhanced the capabilities of the students during placement.

Objectives:

- 1. To instill "Entrepreneurship as a Career Option" for BECians.
- 2. To build Entrepreneurial capabilities through training.
- 3. To groom BECians in product development and linking the same to academic projects.
- 4. To incubate Entrepreneurial activities.
- 5. To support young Entrepreneurs through Techno-managerial activities.

Impact:

- 1. A Competitive atmosphere is created amongst students
- 2. Awareness and a positive attitude is developed about entrepreneurship
- 3. Students have become aware of the realities and challenges of venture initiation

Incubation facility:

With Industry-Institution interaction on the uphill the academic institutions are making an effort to have incubation centres on the campuses to encourage entrepreneurship skills. The BEC campus has set up the following incubation centres:

i) BEC STEP

Incubation facility is provided by the Science and Technology Entrepreneurs Park (STEP) which works under the aegis of BEC. About 25 virtual incubates per year are utilizing the Technology Business Incubator (TBI) facilities in the following areas:

- Food processing
- 2. Textile (handloom and power loom)
- 3. Building technology

ii) BEC BOSCH Rexroth Centre for industrial automation

The centre consists of 20 systems, hydraulic and pneumatic kits, PLC machines and associated software. Motion Drive Controller etc. The objective of the centre is to train UG/PG students towards industrial automation. About 300 students have been trained till date.

iii) INTEL Intelligent Systems Laboratory

The lab consists of 20 atom processor kits.UG/PG students are utilizing the lab facilities to do the course assignments and project works.

iv) New age incubation centre in Engineering Colleges through KBITS, Government of Karnataka.

An MOU with Karnataka Biotechnology and Information Technology Services, Government of Karnataka is signed and an incubation centre is set up on campus. The main objective of the scheme is to promote students, research scholars and alumni in implementing their ideas by taking up innovative projects.

9.7 Co-curricular and Extra-curricular Activities

Total Marks 10.00

Institute Marks: 10.00

Besides curricular activities, students are engaged in co-curricular activities. This is normally done by students associations and student chapters at various department levels and the college Gymkhana. Co-curricular activities provide opportunities for students to explore new fields of interest, cultivate leadership skills, and build teamwork qualities. All the students participate in a wide-range of activities which currently include the publishing of weekly news letter, developing, nurturing artistic skills. Participation in technical contests viz. quizzes, paper presentation contests, project exhibitions etc. Most of these activities are initiated by the students and are engaged in developing a dynamic culture, fostering collaboration and cooperation on campus.

Co-curricular activities:

- 1. Each department has a student association/chapter. Every year the co-curricular activities will be organized through these associations. By participating in co-curricular activities students continue to apply the academic knowledge learnt in the classroom to enhance their individual traits.
- 2. In addition every year institute arranges a national level technical student symposium "SPECTRUM" which comprises many events related to Computer Science, Electronics & Communication, Electronics, Civil and Mechanical disciplines.

Table 9.1. Departments Students Associations

Programme	Name of the Association

Automobile Engineering	Automobile Engineering Students Association (AESA)
Biotechnology	BT-Zillion
Civil Engineering	Association of Civil Engineers (ACE)
Computer Science and Engineering	Forum Of Computer Undergraduate Students (FOCUS)
Electronics & Communication Engineering	Association for Communication and Modern Electronics (ACME)
Electrical and Electronics Engineering	Electrical and Electronics Engineering Association (EEEA)
Industrial Production Engineering	Production and Engineering Students Association (PESA)
Information Science & Engineering	RISE (Rays of Information Science and Engineering)
Electronics and Instrumentation Engineering	Instrumentation Technology Students Association (ITSA)
Mechanical Engineering	Mechanical Engineering Association (MEA)
MBA	Basaveshwar Engineering Management students Association(BEMSA)
MCA	Society of Professionals applying Computer Knowledge (SPARK)

IEEE BEC Chapter

IEEE actively conducts co-curricular as well as extracurricular activities. The chapter also organizes a state level event, "NOVUS" every year. It includes many events like programming contests, paper presentation contest, project exhibition etc.

Extra-Curricular Activities

Extra curricular activities are organized through NSS, Students club and etc.

NSS Activities

National Service Scheme (NSS) at BEC has organized many blood donation camps. It maintains the record of individuals who are willing to donate blood. NSS volunteers visit nearby villages affected by natural calamities and assist in distributing milk and bread and also participate in road construction works. Every year on June 5th it celebrates "World Environment Day" by planting saplings.

MindHog (Students club)

MindHog is a student club selected under AICTE – SPICES scheme with a financial support of Rs. 2 lakhs (1 lakh by AICTE and 1 lakh by BEC, Bagalkot) for developing **students club** for well-rounded development of students by promoting their interests, creativity and ethics. A lot of activities for pursuit of individual interests, creative work, showcasing talent, networking and teamwork opportunities, social experience; organization and management skills, exposure to professional ethics etc.

Gymkhana

Various extracurricular activities are organized by Gymkhana association. The activities include:

- 1. Sports week is celebrated by organizing various outdoor events like Cricket, Football, Volleyball, Basketball, Athletics and indoor events like Chess, Carom and Table Tennis etc. Winners are awarded medals on Annual Day,
- 2. On Annual Day every year cultural events will be performed by the students. The program is aimed in encouraging the students to excel in several intrinsic arts.

Enclosure-Gymkhana reports:

Gymkhana Report 2018-2019

- The selection of class representatives and gymkhana office bearers based on the merit was held in the month of September 2018.
- · Gymkhana started the activity by celebrating Gandhi Jayanti on 2nd Oct 2018.
- · Gymkhana also organized a talk on "Narcotic Drugs and their effects" on 06/10/2018 for students.
- Karnataka Rajastova, was celebrated on 1st Nov 2018.
- Bharat Ratna Dr. B R Ambedkar Jayanthi was celebrated on 14th April 2019.
- In association with all the departments, gymkhana organized Inter Department College level Technical Fest FUSION-2K19 on 12th and 13th April 2019. During this event around 500 students participated to exhibit their talents in various technical activities.
- Mr. Amrut D. Bhat & Mr. Pavankumar of Biotechnology Department won 3rd Prize state level BioQuiz held as part of Bengaluru Tech Summit on 19th November 2018.
- Ms. Suprita Revankar and Ms. Shwetha Shirol of Biotechnology Department won cash prize of Rs. 5000 in Anveshana Project Exhibition organized by Agastya Foundation, Banglore during 25th to 27th February 2019.
- · Ms Suman H Malagar and Ms Rushali Patil of Biotechnology Department won best paper award at National Seminar on New trends in biotechnology held at BIET, Davanagere.
- Deepak Kulkarni, D Teja, and Dheeraj Warkar of Computer Science and Engineering Department won 2nd prize in paper presentation held at KLE Technological University, Hubli on 11/1/19.
- Snehali M K and Sahil Hanagi of Computer Science and Engineering Department won 2nd prize in Techathon held at KLE Technological University, Hubli on 11/1/19.
- Snehali M K and Sahil Hanagi of Computer Science and Engineering Department won 2nd prize in event "To be Denni Ritchie" held at KLE Engineering College, Chikkodi on 03/1/19.
- Sahil Hanagi and Kiran M of Computer Science and Engineering Department won 1st prize in event "Bug C" held at SDMCET Dharwad on 19/04/19.

- Kiran M and Ankita H of Computer Science and Engineering Department won 1st prize in event "IT Quiz" held at VDIT Haliyal on 19/04/19.
- Rohit S of Computer Science and Engineering Department won 2nd prize in event "Tech Kirti" held at IIT Kanpur on 19/04/19.
- Rohit Hemadri and Rahul Vasanad of Computer Science and Engineering Department won 1st prize in event "Coding (Techthon) in Advitiya2018" held at KLEIT Hubli during 28th to 29th September 2018.
- Rahul Vasanad of Computer Science and Engineering Department awarded as "Young Scientist Award 2019" for Andriod and Java App Development by Think & Ink Company Banglore
- Pramod B Ukkali of Computer Science and Engineering Department won 1st prize in event "Coding & Debugging" held at Sanjay Godawat Institute of Technology Kolhapur on 23/01/19.
- Pramod B Ukkali of Computer Science and Engineering Department won 1st prize in event "Coding & Debugging" held at SKSVMACET Laxmeshwar on 12/01/19.
- Prajwal Kumar and Namrata Patil of Industrial and Production Engineering department won 2nd prize in event "IEMage (Business Quiz)" held at SIT Tumkur during 08/3/19 to 10/3/19.
- Abdul Jamadar Khadar and Ananda kundagol of MBA department won 2nd prize in event "Galacto 2K19 Human Resource Management" held at Global Business School Hubli during 14th to 16th April 2019.
- Shreva Tadasad and Geeta Nagur of MBA department won 2nd prize in event "Finomania 2K19" held at KLE IMSR Hubli on 8th March 2019.
- Nikita Upadhye of Electronics and Communication Engineering Department won 1st prize in event "Paper presentation" Shrishti 2018 held at Dayananad College of Engineering Bangalore during 22nd to 24th May 2018
- . This year from our college around 50 students were participated in VTU Youth fest for various events held at BKIT, Bhalki
- Our college has won 7 medals and 5 trophies at VTU Zonal intercollegiate tournament. And also our 3 students have selected as VTU Blues in various games.
- · The college Badminton Team women teams have won the Runners up Trophy in VTU Gulbarga zone organized at GNDEC Bidar.
- Our Throw ball Team won the Runners up Trophy in VTU Gulbarga zone organized at PDIT Hospet.
- · College Hand Ball Team are the winners in VTU Gulbarga zone organized at our college.
- · Our College Hockey Team is the winner in VTU Gulbarga zone organized at our college.
- . First time, our college Archery Team won the Runners up Trophy in VTU Gulbarga zone organized at SDM College of Engineering and Technology, Dharwad.
- . Mr. Manjunath of Mechanical Engineering Department won the silver medal in VTU state level Russeling held at Nagarjuna College of Engineering, Bangalore
- Ms. Laxmi of Information Science and Engineering Department won the Bronze medal in VTU state level Toykando held at Nagarjuna College of Engineering, Bangalore
- . Ms. Sahana Kulkarni is selected as VTU Blue in KHo Kho Game.
- · Mr. Shivabasu is selected as VTU Blue in Hockey Game.
- Mr. Shivabasu and Mr. Shivakumar M. are selected as VTU Blues in Hockey Game.
- . Ms. Aishwarya Halagali bagged gold and silver medals in 100 mts. Hurdle and long jump.
- . Mr. Mahesh is selected as VTU Blue in Floor Ball Game.
- We have hosted VTU Gulbarga Zonal Inter Collegiate Throw Ball and Hockey Tournament.

Gymkhana Activities (2020-2021)

- Gymkhana started the activity by celebrating Gandhiji Jayanti and Lal Bahadur Shastriji Jayanti on 2nd October 2020
- Karnataka Rajyotsva, was celebrated on 1st November 2020
- Mr. Pavan Simikeri (MBA Dept.), Ms. Savita Halli (MBA Dept.), and Ms. Supriva (Civil Engg.) have won the Bronze medal in National Level Wushu Championship at Mohali, Punjab on 02.03.2021
- Bharat Ratna Dr. B. R. Ambedkar Jayanthi was celebrated on 14th April 2020
- BEC Cricket team won runners up position in Bagalkot Youth Premiur League 2021 on 12.04.2021 organized by LLyod's Sports Foundation Bagalkot in association with Cricket Academy Bagalkot
- · International Yoga Day 2021 was conducted on 21.06.2021 from 7.00 am to 8.00 am in Online and Offline mode

10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

Total Marks 120.00

10.1 Organization, Governance and Transparency (55)

Total Marks 55.00

10.1.1 State the Vision and Mission of the Institute (5)

Institute Marks: 5.00

Vision

To be recognized as a premier technical institute committed to developing exemplary Professionals, offering research based innovative solutions and inspiring inventions for holistic socio-economic development.

Mission

- · To pursue excellence through student centric dynamic teaching-learning processes, encouraging freedom of inquiry and openness to change.
- . To carry out innovative cutting edge research and transfer technology for industrial and societal needs.
- · To imbibe moral and ethical values and develop compassionate, humane professionals

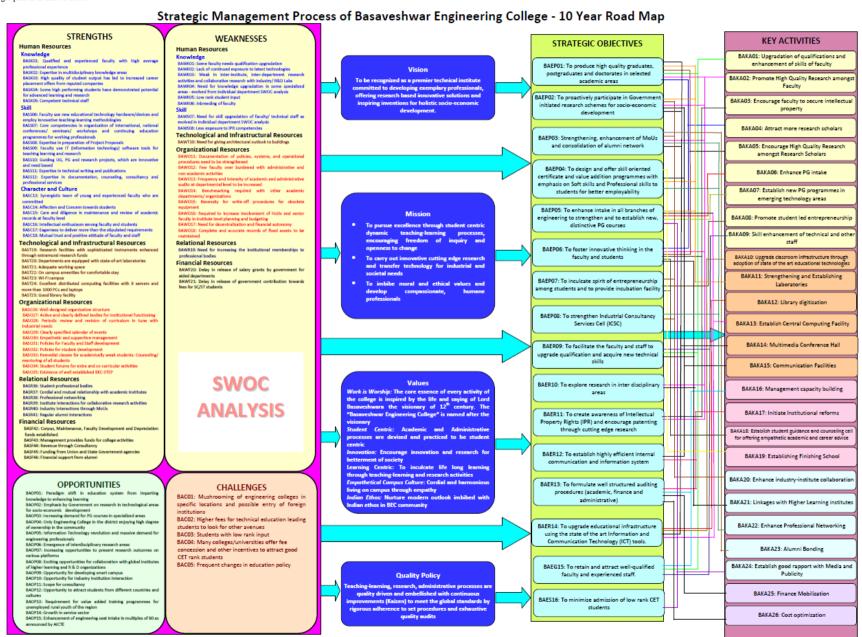
10.1.2 Availability of the Institutional Strategic Plan and its Effective Implementation and Monitoring (25)

Institute Marks: 25.00

Yes - https://becbgk.edu/Strategic-Plan-BEC.pdf (https://becbgk.edu/Strategic-Plan-BEC.pdf)

An extensive SWOC Analysis of the institution has been carried out and the details of analysis are provided herewith. Resource centric approach is adopted for SWOC analysis (Strengths, Weaknesses, Opportunities, and Challenges) to evolve a comprehensive strategic plan for institutional development. The five resources are Human, Organizational, Technological & Infrastructural, Relational and Financial. Strengths and Weaknesses are considered as internal while Opportunities and Challenges as external.

The institutional strategic plan is as shown below:



10.1.3 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

Institute Marks: 10.00

List the governing, senate, and all other academic and administrative bodies; their memberships, functions, and responsibilities; frequency of the meetings; and attendance therein, in a tabular form. A few sample minutes of the meetings and action-taken reports should be annexed.

The published rules including service rules, policies and procedures; year of publication shall be listed. Also state the extent of awareness among the employees/students.

The college has the following committees to ensure proper management of academic, financial and general administrative affairs.

The following are the statutory bodies:

- 1. Governing Body
- 2. Governing Council
- 3. Academic Council
- 4. Board of Studies
- 5. Finance Committee
- 6. Board of Appointments
- 7. Library Committee

Governing Body:

The major functions of the BOG include:

- 1. Taking all policy decisions and overall management of Institutions
- 2. Form, supervise, guide and approve proposals of various committees such as Academic Committee, Finance Committee, Building and Works Committee and Purchase Committee etc.
- 3. Reviewing institution progress and giving guidance for achieving goals and targets
- 4. Developing strategies for creating the ambience for excellence
- 5. Suggesting measures for enhancing reach and effectiveness of services to community and industry
- 6. Ensuring institutional accountability and compliance with policy reforms.
- 7. To oversee proper utilization of fund and submission of regular reimbursement claims
- 8. To perform all other functions related to the fulfillment of the objectives of the college.

Governing Body meetings are held once in every 3 months. The structure of the Governing Body is shown below table 10.1.

Table 10.1. Structure of the Governing Body: Private Management Aided/ Unaided

Number	Category	Nature
3 Members, one of them to be Chairperson	Educationist, Industrialist, Professional	Nominated by the State Government. Persons of proven academic interest with atleast PG leve qualification
2 Members	Faculty of the institution	Nominated by the Principal based on Seniority
1 Member	Educationist or Industrialist	Nominated by the Principal based on Seniority for 2 years
1 Member	UGC Nominee	Nominated by the UGC
1 Member	State Government nominee	Nominated by the State Government
l Member	University Nominee	Nominated by the University
1 Member	Principal of the Institution	Ex-officio

Sample minutes of the Governing Body meetings held:

Enclosure- Minutes-BoG- 31-12-2020



BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS) BAGALKOT- 587 103

Distributed 507 200

Technical Education Quality Improvement Programme - III (TEQIP-III)

27th BOARD OF GOVERNORS MEETING

AGENDA

Following agenda to be discussed during the 27th Board of Governors (BoG) meeting (online) of Basaveshwi Engineering College (Autonomous), Bagalkot" scheduled on 31.12.2020 at 11.30 am through "Google Meet

	9.	Dr. C. M. Javalagi	Assistant Placement Officer	
- 1	8.	Dr. Shreelata R. Rao	HoD Dept. of MBA	
	7.	Dr. S. G. Kambalimath	Placement Officer	
	6.	Dr. M. S. Hebbal	HoD Dept. of Mechanical Engg.	
	5.	Dr. S. S. Kuntoji	HoD Dept. of E&CE	
	4.	Dr. P. G. Rakaraddi	HoD Dept. of Civil Engg.	
	3.	Dr. R. B. Khadiranaikar	Dean Student Welfare	
	2.	Dr. Veena Soragavi	Dean R&D	
	1.	Dr. P. N. Kulkarni	Dean Academic	
	SI. No.	Name of Faculty	Position	
Sub (11)		oost-facto approval for appoi ative posts	ntment of following faculty members for various	
, ,	(Aided) ap	oplicable from 01.01.2016		
Sub (10) :			lementation of AICTE 7th pay scale for teaching staff	
	Procurement, b) Academic Activities, c) Operation & Maintenance (O&M) and d) Mentoring/Twinning Systems			
Sub (9)				
S. F. (0)	,	Seeking financial approval for expenditure incurred from 01.07.2020 to 31.12.2020 under a)		
Sub (8)	: Seeking post-facto approval for conducting Employability Skill Test from17-20 Dec., 2020 for 2nd, 3rd and 4th year students conducted by Aspiring Minds, as per NPIU guidelines			
. ,			*	
Sub (7) :			Research Assistantship (RA) to research scholars	
Sub (6)		oost-facto approval for Equity 0 to 30.12.2020	y Assurance Plan (EAP) programs organized from	
Sub (5)		oost-facto approval for Indus by faulty/students from 01.07.	stry Institute Interaction programs organized and 2020 to 30.12.2020	
	webin	ars organized from 01.07.2020		
Sub (4)	 a) Seeking post-facto approval for STTPs/Workshops/Conferences/Training prograttended by Faculty/Staff/Students from 01.07.2020 to 30.12.2020 			
	Computer	s and e) Digital Teaching Device		
Sub (3)	Seeking po grants	ost facto approval for procurem	ent of Goods/Equipment's upon release of additiona	
Sub (2)	to 30.12.2		d/organized and the progress made from 01.07.2026	
Sub (2)		To confirm the minutes of the previous BoG meeting held on 26.09.2020		



BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS) BAGALKOT- 587 103

B, V, V, S	Technical Education Qualit	y Improvement Programme -	III (TEQIP-III)
Sub (12) :	Seeking approval for five months	maternity leave from 21.10.2020 to	21.03.2021to Mrs
	Sangeeta Mulgund, Research Schola		
Sub (13) :	Seeking approval for the sanction of	time bound increments for the follow	ving supporting stat
	SI. Name of the staff	Designation and department	Number of
	No.		years of service
	Shri. Raghavendra	Helper (Aided), Mechanical	20 years
	Dhage	Engineering Department	
	2. Shri, M. M. Savanur	Helper (Aided), Civil Engineering	25 years
		Department	
Sub (14) :	Seeking approval for considering a	-	Assistant Professo
. ,		epartment for promotion to the po	
	increase in the AGP from Rs. 9000 to		
Sub (15) :			(Aided). Mechanic
,	Engineering Department to the post	-	(
Sub (16) :			Professor (Aided
. (20,		B. R. Endigeri, Assistant Professor	
		eport submitted by AGP Scrutiny Com	
Sub (17) :			
30D (17)		dustrial and Production Engineering D	
Sub (18) :			
3ub (10)	Walikar	in compensatory basis of Sri. Affilt 1. V	valikar, 5/0 Late 1.
Cub (10)		to Dr. C. H. Conni. Dr. B. V. Kurahatti	Chair C Vali Da I
Sub (19)	: Seeking approval for release of AGP to Dr. S. H. Sanni, Dr. R. V. Kurahatti, Shri S. C. Yali, Dr. V. V. Kuppast, Agadi, Shri G. H. Rathod, and Dr. M. C. Goudar based on report submitted by AGP		
	Scrutiny Committee	, and Dr. M. C. Goudar based on repo	ort submitted by AG
Sub (20) :		D. Chillal Associate Resferses (Una	idad) from Industri
3ub (20)	Seeking approval for transfer of Dr. D. D. Chillal, Associate Professor (Unaided), from Industrial and Production Engineering Department to Automobile Engineering Department		
Sub (21) :			
3ub (21)	: Seeking approval for the sanction of leave without pay up to 31/12/2020 to Smt. Pallavi S. Sureban, SDA (Unaided), Accounts section		
Sub (22) :			omic year 2021 22
3ub (22)		nent with Mechanical Engineering De	
		ion Engineering Department wit	
	Communication Engineering Dep		ii ciectronics an
Sub (23) :			woor 2021-22
3ub (23)	a) Computer Science and Engineeri		. year 2021-22,
	b) Information Science and Engineer		
Sub (24) :			nittaa
Sub (24)	Seeking approval for the appointmen	nt or Chairman or AGP Scrutiny Com	nittee
Sub (25) :	Seeking approval for release of with	neld increments to Dr. G. M. Hiremath	, Associate Professo
	(Aided), Civil Engineering Departmen	nt upon completion of PhD	
Sub (26) :	Seeking approval for the withdrawal	of AGP to Dr. S. H. Sanni, and Dr. R. V	/. Kurahatti based o
	the request received from the facult	y members	
Sub (27) :			. S. N. Kurbet, Rt
. ,		anical Engineering Department for pr	
- 1			
Sub (28) :	Any other matter with the permission	n of Chair	

Brof C B Gudisagar Chairman



BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS) BAGALKOT- 587 103

B.V.V.S Technical Education Quality Improvement Programme - III (TEQIP-III)

27" BOARD OF GOVERNORS MEETING

RESOLUTIONS OF THE BOG MEETING HELD ON 31.12.2020

Resolutions of the 27th Board of Governors meeting (TEQIP-III) held online on 31.12.2020 at 11:00 am through "Google Meet"

Sub. (1)	1:	To confirm the minutes of the previous BoG meeting held on 26.09.2020		
Res.		The minutes of the previous BOG meeting held on 26.09.2020 were presented by Principal to the BoG members and it was resolved to approve the same [Annexure I]		
Sub. (2)	:	To apprise of activities/events conducted/organized and the progress made from 27.09.2020 to 30.12.2020		
Res.		Major activities/events of the College and TEQIP – III conducted from 27.09.2020 to 30.12.2020 was presented by Principal to the Board members (Annexure II). The Board members congratulated Principal & Faculty for the progress made in TEQIP-III and for being awarded 2 patents to the college.		
Sub. (3)	:	Seeking ratification for procurement of Goods/Equipment's upon release of additional grants a) Laptops, b) All in One Computers, c) Interactive panels and accessories, d) Desktop Computers and e) Digital Teaching Device: Virtulive		
Res.		Based on the performance made by the college, NPIU/SPIU had informed that an additional grant of 10% of PLA will be sanctioned (10% of 7.70 crores = Rs. 77 lakhs) to the college and had sought for the action plan. Owing to COVID19 the classes were to be in online mode, hence was planned to strengthen the teaching learning process by purchasing a) Laptops, b) All in One Computers, c) Interactive panels and accessories, d) Desktop Computers and e) Digital Teaching Device: Virtulive. The Board members approved the same in total for an estimated cost of Rs. 93.00 lakhs [Annexure III].		
ıb. (4)		Seeking ratification for STTPs/Workshops/Conferences/Training programs attended by Faculty/Staff/Students from 01.07.2020 to 30.12.2020, b) Seeking post-facto approval for FDPs/SDPs/Workshops/Symposiums/offline and online webinars organized from 01.07.2020 to 30.12.2020		
Res.		The details of i) 1 Training programme attended by faculty and 1 workshop attended by student, ii) 9 conferences attended by faculty and 2 conferences by students, b) 12 FDPs/SDPs/Workshops/Symposiums/offline and online webinars organized was presented to board members and it was revolved to approve the same. [Annexure IV]		
Sub. (5)	:	Seeking ratification for Industry Institute Interaction programs organized and attended by faulty/students from 01.07.2020 to 30.12.2020		
Res.		2 students who attended the internship at industries from 01.07.2020 to 30.12.2020 was presented by Principal to Board members and it was resolved to approve the same [Annexure V].		
Sub. (6)	:	Seeking post-facto approval for Equity Assurance Plan (EAP) programs organized from 01.07.2020 to 30.12.2020		
Res.		The details of 8 Equity Assurance Plan (EAP) organized by faculty members was presented to board members and it was resolved to approve the same [Annexure V].		



BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS) BAGALKOT- 587 103

B.V.V.S Technical Education Quality Improvement Programme - III (TEQIP-III)

B. V.	v. 3	Technical Education Quanty Improvement Fogramme **** (12Q11 111)
Res.		The five months maternity leave request letter submitted by Mrs. Sangeeta Mulgund, Research Scholar, Dept. of Civil Engg. was presented to board members and it was resolved to approve the same.
Sub. (13)	:	Seeking approval for sanction of time bound increments for the following supporting staff: 1. Shri. Raghavendra Dhage, Helper (Aided), Mechanical Engineering Department, 20 years 2. Shri. M. M. Savanur, Helper (Aided), Civil Engineering Department, 25 years
Res.		Shri. Raghavendra Dhage, Helper (Aided), Mechanical Engineering Department and Shri. M. M. Savanur, Helper (Aided), Civil Engineering Department were eligible for time bound increments based on the length of service. The same was presented to board members and it was resolved to approve the same and the Principal was informed to forward the applications to DTE Bangalore for approval.
Sub. (14)	:	Seeking approval for consideration of application of Dr. H. M. Kadlimatti, Assistant Professor (Aided), Mechanical Engineering Department for promotion to the post of Professor and increase in the AGP from Rs. 9,000 to Rs. 10,000
Res.		Dr. H. M. Kadlimatti, Assistant Professor (Aided), Mechanical Engineering Department had submitted an application for promotion to the post of Professor and increase in the AGP from Rs. 9,000 to Rs. 10,000. The board members informed the Principal to follow the norms as per GoK/AICTE for promotion to the post of Professor, however for increase in the AGP from Rs. 9,000 to Rs. 10,000 the application to be forwarded to DTE, Bangalore upon verification of documents by the Internal Scrutiny Committee.
Sub. (15)		Seeking approval for promotion of Dr. S. S. Balli, Associate Professor (Aided), Mechanical Engineering Department to the post of Professor
Res.		Dr. S. S. Balli, Associate Professor (Aided), Mechanical Engineering Department had submitted an application for promotion to the post of Professor. The board members informed the Principal to follow the norms as per GoK/AICTE for promotion to the post of Professor.
ıb. (16)	:	Seeking approval for discussion on report submitted by AGP Scrutiny Committee regarding the release of AGP to Dr. A. H. Agadi, Assistant Professor (Aided), Mathematics Department and Sri. B. R. Endigeri, Assistant Professor (Aided), Mechanical Engineering Department
Res.		The AGP Scrutiny Committee had submitted a report to the Principal with regards to the verification of documents required for increase in AGP. The same was presented to the Board members and it was resolved to approve the same.
Sub. (17)	:	Seeking approval for consideration of application of Dr. S. M. Parshiyavar, Associate Professor, Industrial and Production Engineering Department for the release of withheld increments upon completion of PhD
Res.		Dr. S. M. Parshiyavar, Associate Professor, Industrial and Production Engineering Department had submitted an application for the release of withheld increments upon completion of PhD. The Board members approved the same and informed the Principal to release the withheld increments from the date of his completion of PhD, upon approval from competent authority.
Sub. (18)	:	Seeking approval for consideration of application of Amit Y. Walikar, S/o Late Y. S. Walikar for appointment on compensatory basis
Res.		Mr. Amit Y. Walikar, S/o Late Y. S. Walikar had submitted an application for appointment on compensatory basis. The same was presented to the Board members and the members



Prof. S. R. Gudisagar

Board of Governors, TEQIP-III, BEC BAGALKOT - 587 103

BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS) BAGALKOT- 587 103

B. V.	v. s	Technical Education Quality Improvement Programme - III (TEQIP-III)
		committee was to be appointed as the Chairman. The same was bought to the notice of Board members and it was resolved to appoint Dr. K. Chandrashekar as the Chairman of the AGP scrutiny committee.
Sub. (25)	:	Seeking approval for release of withheld increments to Dr. G. M. Hiremath, Associate Professor (Aided), Civil Engineering Department upon completion of PhD
Res.		Dr. G. M. Hiremath, Associate Professor (Aided), Civil Engineering Department had submitted an application for the release of withheld increments upon completion of PhD. The Board members approved the same and informed the Principal to release the withheld increments from the date of his completion of PhD, upon approval from competent authority.
Sub. (26)	:	Seeking approval for the withdrawal of AGP to Dr. S. H. Sanni, and Dr. R. V. Kurahatti based on the request received from the faculty members
Res.		The Board informed the Principal to discuss the matter with the Legal Advisors of the college and take appropriate measures based on the suggestions given by Legal Advisors.
Sub. (27)	:	Seeking approval for considering the apology letter submitted by Dr. S. N. Kurbet, Rtd. Placement Officer (Professor), Mechanical Engineering Department for processing the Pension
Res.		The Principal apprised the Board members the reason for initiating action against Dr. S. N. Kurbet, Rtd. Placement Officer (Professor), Mechanical Engineering Department based upon the letter from DTE Bangalore. However, Dr. S. N. Kurbet, Rtd. Placement Officer (Professor), Mechanical Engineering Department submitted apology letter and requested for processing the Pension papers. Upon discussion the Board members informed the Principal to discuss the matter with Legal Advisors and take appropriate measures.
Sub. (28)	:	Any other matter with the permission of Chair.
Res.		No other matters came for the discussion and the online meeting was concluded with vote of thanks proposed by Dr. S. G. Kambalimath TEQIP-III coordinator to the Chair and all honourable BoG members.

Enclosure-Minutes- BoG- 26-03-2021



BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS) BAGALKOT-587 103

Technical Education Quality Improvement Programme - III (TEQIP-III)

28th BOARD OF GOVERNORS MEETING

AGENDA

Following agenda to be discussed during the 28th Board of Governors (BoG) meeting (online) of Basaveshwar Engineering College (Autonomous), Bagalkot scheduled on 26.03.2021 at 11:30 am through "Google Meet".

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Sub. (1)	:	To confirm the minutes of the 27 th	BoG meeting held on 31.	12.2020					
Sub. (2)	:	To apprise of the activities/ever 01.01.2021 to 25.03.2021	nts conducted/organized	and the progress made during					
Sub. (3)		Seeking post facto approval for pr a) Seeking post facto approval for ERP SAMARTH Software b) Seeking post facto approval fo Number: GEM/2020/RA/S64 GEM/2020/RA/60493, Dated: Nos.) for online teaching learn	or procurement of Servers or re-initiation of two times 665, Dated: 12.12.202 : 29.12.2020) of Interact	(02 Nos.) for implementation of scancelled package (Gem RA					
Sub. (4)	:	Seeking post-facto approval attended online/offline by Faculty							
Sub. (5)		01.01.2021 to 25.03.2021	 Seeking post-facto approval for Remedial classes conducted for students during 01.01.2021 to 25.03.2021 						
Sub. (6)		Seeking post facto approval for payment of patent fees towards filing IPR of Electrical and Electronics department							
Sub. (7)	:	Seeking post-facto approval for pr	roviding Research Assistan	tship to Research Scholars					
Sub. (8)	:	Seeking post-facto approval for registered and completed online !		tance to faculty and students					
Sub. (9)	:	Seeking financial approval for expenditure incurred from 01.03.2021 to 25.03.2021 under a) Procurement, b) Academic Activities, c) Operation & Maintenance (O&M) and d) Mentoring/Twinning Systems							
Sub. (10)	:	Seeking approval for the sanction staff:	of time bound increment	s for the following non-teaching					
		No. 1 Shri B. R. Chiniwalar	Designation and department Typist (Aided), Office Helper (Aided), Physics	Number of years of service 20 years 20 years					
Sub. (11)	:	Seeking approval for delegation supporting staff and bonafide cert	n of signing authority of						
Sub. (12)	:	Seeking approval for scrapping of sanctioned under AICTE/DST etc.,		s & Peripherals) and Furniture					
		Seeking approval for the appointn							

	BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS BAGALKOT- 587 103
B. V. V. S	Technical Education Quality Improvement Programme - III (TEQIP-II
Sub. (14) :	Seeking approval for appointments on compensatory basis in Aided departments
Sub. (15) :	Presentation of Committee Opinion on Merger of departments i) Automobile Engineer

with Mechanical Engineering and ii) Electronics & Instrumentation with Electronics and

- com-

Sub. Sub.

Prof. S. R. Gudisagar Board of Governors, TEQIP-III, BEC BAGALKOT – 587 103

Communication Engineering.

Governing Council:

BEC has a governing council in place wherein the members are drawn from the members of the trust.

The functions of Governing Council are:

- 1. Frame directive principles and policies.
- 2. Amend and approve policies from time to time
- 3. Approve budgets
- 4. To look after the overall development of institute
- 5. Mobilize external resources to strengthen the institute

The structure of Governing Council is shown in below table 10.2.

Table 10.2. The structure of Governing Council

Sl. No	Particulars	Number	Designation
1	Chairman of the trust	01	Chairman
2	Members of the trust	10	Member
3	Principal	01	Member Secretary

Academic council:

The curriculum framed by the Board of Studies (BOS) of each programme is to be approved in the academic council meetings are conducted annually. During the meeting the Program Educational Objectives (PEO) of each programme are also reviewed.

The functions of Academic Council are:

- 1. Scrutinize and approve the minutes of the Board of Studies with or without modification with regard to courses of study, academic regulations, curricula, syllabi and modifications, it has the right to return the matter for reconsideration to the Board of Studies concerned or reject it, after assigning appropriate reasons.
- 2. Recommend to the Governing Body proposals for institution of new programmes of study.
- 3. Recommend to the Governing Body institution of scholarships, prizes and medals, and to frame regulations for the award of the same.
- 4. Perform such other functions as may be assigned by the Governing Body.

The structure of Academic council is as shown below table 10.3.

Table 10.3. The structure of Academic council

Sl. No	Particulars	No.	Designation
01	Principal of the College	01	Chairman
02	All Heads of the Department	All heads	Members
03	Teachers of the College representing different level of teaching staff	04	Members
04	Experts from outside the college representing areas such as industry, R&D, Tech. Education.	04	Members
05	Nominees of University (VTU)	03	Members
06	Senior Faculty Member	04	Member Secretary

Enclosure-Minutes-Academic-Council-24-07-2021

BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS), BAGALKOT Proceedings of 17th Academic Council Meeting

24thJuly 2021

Time: 4.30 pm

Venue: Blended (Online + Offline)

Online (MS-Teams)

		an of Academic Council Dr. S. S. Injaganeri, Principal, Basaveshwar Engineering College hearty welcome to all the members of the Academic council.								
Sub. (1)	T:									
Res.	:	The Chairman presented the minutes of the 16 th Academic Council Meeting held or 01.01.2021. The members confirmed the minutes of the meeting. (Annexure - I)								
Sub. (2)	1:	To apprise of the college activities from 02.01.2021 to 23.07.2021								
Res.	:	The Chairman briefly presented the college activities from 02.01.2021 to 23.07.2021. The members appreciated the performance and expressed their happiness. (Annexure-II)								
Sub. (3)	:	To present results of B.E. for the Academic Year 2020-2021 (before makeup Exams of III, V, VII Semesters), M.Tech (III Sem.), MBA (III Sem.) and MCA (V Sem.)								
Res.	:	The Controller of Examinations (CoE) presented the results for the academic year 2020-2021 for the following programms (before make up exams): i. B.E III, V & VII Semesters ii. M. Tech III Semester iii. MBA - III Semester iv. MCA - V Semester The council approved the results presented by CoE (Annexure - III)								
Sub. (4)	:	Seeking approval for proceedings of the Joint Board Meetings (JBMs) held on 24.03.2021 and 22.05.2021								
Res.	:	The Chairman presented the proceedings of joint board meetings held on 24.03.2021 and 22.05.2021. After the discussion, it was resolved to approve the proceedings of joint board meetings. (Annexure-IV)								
Sub. (5)	:	Seeking approval for proceedings of Board of Studies (BoS) meetings of all departments for B.E., M.Tech. & MBA programmes for the Academic Year 2021-2022								
Res.	:	The Chairman presented the proceedings of BoS meetings of all the departments. After the discussion it was resolved to approve the proceedings of BoS meeting of all								

Dr. S. S. Injaganeri	hand	Dr. P. N. Kulkarni	Melle	Dr.VeenaSoragavi	China	Dr. R. B. Khadiranalkar	800	Dr. K. Chandrasekhar	100%
Prof. M. S. Mohan Kumar	0 1	Prof.Madhu N. Belur		Prof. B. Annappa		Shri. R. S. Rajkumar		Dr. T.V. Ravi	11
Prof. G. R. Doddagoudar		Prof.SreedharaS heshadri		Shri. MadhukarManikD ube		Dr. P.G. Rakaraddi	() os	Dr. M. S. Hebbal	00001214
Dr. S. H. Jangamshetti	0	Dr. V. B. Pagi	SP	Dr. K. Shridar	m	Dr. V. S. Puranik	4	Dr. K. Bhat	M
Dr. (Smt) Bharati S. Meti	BW	Dr. (Smt) S. R. Patil	lare	Dr. A D Devanagavi	tw	Dr. (Smt) Jayashri G. Ghantimath	RR	Dr. P. L. Timmanagoudar	SI.
Dr. S. S. Benchalli	CP2	Smt. VidyaHunagund		Dr.(Smt) RashmiHunnur		Shri. B. S. Haravi	Bas	Dr. S. G. Kambalimath	anhali
Dr.(Smt) Bharati M Reshmi		Dr. B. F. Ronad	Bleval					Dr. V. G. Akkimardi	Œ

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		departments for B.E., M.Tech., and MBA programmes for the academic year 2021 - 2022 (Annexure-V)
Sub. (6)	:	Seeking approval for B.E. I/II semester scheme and syllabus for the Academic Year 2021-2022
Res.	:	The Chairman presented the scheme and syllabus of B.E. I/II semesters for the academic year 2021-2022. After discussion the scheme and syllabus of B.E. I/II semesters for the Academic year 2021-2022 was approved. (Annexure-VI)
Sub. (7)	:	Seeking approval for implementation of regulations governing the degree of MBA and M.Tech programmes from the Academic Year 2021-2022 [i) Ref: VTU/BGM/OS-Aca/Cirs/2020-21/12, dated:01.04.2021, ii) Ref: VTU/BGM/Aca-OS-Cirs/2021-22/104, dated:06.04.2021]
Res.	:	The Chairman presented the details of VTU Notifications related to implementation of regulations governing the degree of MBA and M.Tech programmes. After the discussion it was resolved to approve and implement the regulations from the Academic Year 2021-2022. (Annexure - VII)
Sub. (8)	:	Seeking approval for the regulations governing: B.E. M.Tech M.B.A. PG-Diploma Programmes for the Academic Year 2021-2022
Res.	:	The Chairman presented BEC regulations for the Academic Year 2021 – 2022 for B.E., M.Tech., M.B.A., and PG-Diploma programmes. After the discussion it was resolved to approve the regulations for the academic year 2021-2022. (Annexure-VIII)
Sub. (9)	:	Seeking approval for students qualified for the Certificate Course in Nutraceuticals and Food Processing for the academic year 2020-2021
Res.	:	The Controller of Examinations presented the list of students qualified for the Certificate Course in Nutraceuticals and Food Processing for the academic year 2020-2021 and it was resolved to approve and recommended for the award of course certificate. (Annexure - IX)
ub. (10)	:	Seeking approval for conducting Odd & Even semester Classes and CIE through online mode for the Academic Year 2020-2021, owing to Covid-19 Pandemic
Res.	:	The Chairman presented the calendar of events for the Odd & Even semester of the Academic Year 2020-2021 and procedure employed for conduction of online classes &

Signatures of Academi	Council M	embers							
Dr. S. S. Injaganeri	Jul .	Dr. P. N. Kulkarni	Welf	Dr.VeenaSoragavi	Geen	Dr. R.B. Khadiranaikar	Cor	Dr. K. Chandrasekhar	lov.
Prof. M. S. Mohan Kumar		Prof.Madhu N. Belur		Prof. B. Annappa	A.	Shri. R. S. Rajkumar		Dr. T.V. Ravi	1
Prof. G. R. Doddagoudar		Prof.SreedharaS heshadri		Shri. MadhukarManikD ube		Dr. P.G. Rakaraddi	Popol	Dr. M. S. Hebbal	OBHeld
Dr. S. H. Jangamshetti	0	Dr. V. B. Pagi	30	Dr. K. Shridar	mz	Dr. V. S. Puranil	03	Dr. K. Bhat	(D)
Dr. (Smt) Bharati S. Meti	BW	Dr. (Smt) S. R. Patil	Bons	Dr. A D Devanagavi	ti	Dr. (Smt) Jayashri G. Ghantimath	Pre	Dr. P. L. Timmanagoudar	Ø .
Dr. S. S. Benchalli	Sen	Smt. VidyaHunagund		Dr.(Smt) RashmiHunnur		Shri. B. S. Haravi	Resa	Dr. S. G. Kambalimath	Jaly
Dr.(Smt) Bharati M Reshmi		Dr. B. F. Ronad	Bord					Dr. V. G. Akkimardi	

Enclosure-Minutes-Academic-Council-20-11-2021

BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS), BAGALKOT

Proceedings of 18th Academic Council Meeting

20th Nov. 2021

Time: 08.30 AM

Venue: Multimedia Seminar Hall

Subject: Seeking approval for the list of students qualified for the award of B.E.,
M.Tech., MBA and MCA degrees during the academic year 2020-2021.

Resolution
It is resolved to approve the list of students qualified for the award of B.E.,
M.Tech., MBA and MCA degrees during the academic year 2020-2021 as
presented by Controller of Examination and recommended to forward the
same to VTU, Belagavi.

Member Secretary

[Dr. V. G. AKKmard:

Dr. S. S. Injaganeri	Just	Dr. P. N. Kulkarni	Mely	Dr.Veena Soragavi	Bene	Dr. R. B. Khadiranaikar	Boo	Dr. K. Chandrasekhar	100/
Prof. M. S. Mohan Kumar	0	Prof.Madhu N. Belur		Prof. B. Annappa	Andr	Shri. R. S. Rajkumar		Dr. T.V. Ravi	Rawi
Prof. G. R. Doddagoudar	Don	Prof.Sreedhara Sheshadri		Shri. MadhukarMani k Dube	Dele	Dr. P.G. Rakaraddi	Di	Dr. M. S. Hebbal	gastole
Dr. S. H. Jangamshetti		Dr. V. B. Pagi	30	Dr. K. Shridar	Scuntge	Dr. V. S. 2 Puranik	25	Dr. K. Bhat	(D)
Dr. (Smt) Bharati S. Meti	BW	Dr. (Smt) S. R. Patil	Barre	Dr. A.D. Devanagavi	ofis	Dr. (Smt) Jayashri G. Ghantimath	22.52	Dr. P. L. Timmanagoudag	DI.
Dr. S. S. Benchalli	482	Smt. Vidya Hunagund	280	Dr.(Smt) Rashmi Hunnur	Elen	Shri. B. S. Haravi	Mes	Dr. S. G. Kambalimeth	malua
Dr. Bharati Resmi	adain/	Dr. B. F. Ronad	Bors					Dr. V. G. Akkimardi	12

		Odd and Even semester Classes and CIE through online/offline mode for the Academic Year 2020-2021, owing to Covid-19 Pandemic.
Sub. (11)) :	
Res.	:	The Chairman presented the calendar of events for supplementary semester of the Academic Year 2020-2021. After the discussion it was resolved to approve the conduction of supplementary semester Classes, CIE and Internships through online/offline mode for the Academic Year 2020-2021, owing to Covid-19 Pandemic
Sub. (12)	:	Seeking approval for providing open choice in SEE theory examinations for the Regular and Reregistered subjects of Even semester students of UG/PG for the Academic Year 2020-2021 [Ref: VTU/BOS/A9/2020-21/1155, dated: 08.07.2021]
Res.	:	The Chairman presented the details of VTU circular related to making provision for open choice in SEE theory examinations for the Regular and Reregistered subjects of even semester students of UG/PG for the Academic Year 2020-2021. After the discussion it was resolved to approve the open choice option for SEE theory examinations for the Regular and Reregistered subjects of even semester students of UG/PG for the Academic Year 2020-2021 as one-time benefit, owing to Covid-19 Pandemic. (Annexure - X)
Sub. (13)	:	Seeking approval for offering Kannada subjects (Samskruthika Kannada and Balake Kannada) as one credit course for B.E. III/IV semesters from the Academic Year 2020-2021 onwards [Ref: VTU/Aca/A-9/2020-21/2110, dated: 04.09.2020]
Res.	:	The Chairman presented the details of VTU circular related to offering Kannada subjects (Samskruthika Kannada and Balake Kannada). After the discussion it was resolved to approve and include Kannada subjects as one credit course for B.E. III/IV semesters from the Academic Year 2020-2021 onwards.(Annexure - XI)
Sub. (14)	:	Seeking approval for offering English for Engineers as one credit course to B.E. I/II semesters from the Academic Year 2021-2022 onwards
Res		The Chairman presented the proposal of offering English for Engineers as one credit course to B.E. I/II semesters from the Academic Year 2021-2022 onwards and it was resolved to approve the English course for Engineers as one credit course to B.E. I/II semesters from the Academic Year 2021-2022 onwards.
Sub. (15)	:	Seeking approval for offering Universal Human Values (UHV) as a mandatory course to B.E. V/VI semesters for the Academic Year 2021-2022 [Ref: F.No.AICTE/IPC/2020/93, dated: 19.02.2020]

Signatures of Academi	c Council M	embers	1						
Dr. S. S. Injaganeri	my .	Dr. P. N. Kulkarni	Muly	Dr.VeenaSoragavi	Steve	Dr. R. B. Khadiranaikar	Me	Dr. K. Chandrasekhar	10/
Prof. M. S. Mohan Kumar	0	Prof.Madhu N. Belur		Prof. B. Annappa		Shri. R. S. Rajkumar		Dr. T.V. Ravi	17
Prof. G. R. Doddagoudar		Prof.SreedharaS heshadri		Shri. MadhukarManikD ube		Dr. P.G. Rakaraddi	100/03/	Dr. M. S. Hebbal	20stellin)
Dr. S. H. Jangamshetti	0	Dr. V. B. Pagi	30	Dr. K. Shridar	frz_	Dr. V. S. Puranik	25	Dr. K. Bhat	(M)
Dr. (Smt) Bharati S. Meti	BW	Dr. (Smt) S. R. Patil	barra	Dr. A D Devanagavi	Ai	Dr. (Smt) Jayashri G. Ghantimath	PER	Dr. P. L. Timmanagoudar	9
Dr. S. S. Benchalli	Some	Smt. VidyaHunagund		Dr.(Smt) RashmiHunnur		Shri. B. S. Haravi	1100	Dr. S. G. Kambalimath	Sofraly
Dr.(Smt) Bharati M Reshmi		Dr. B. F. Ronad	Black				V -	Dr. V. G. Akkimardi	W

Res.	1	The Chairman presented the details of AICTE circular related to offering Universal
		Human Values (UHV) course and it was resolved to approve Universal Human Values
	1	as a mandatory course to B.E. V/VI semesters for the Academic Year 2021.
		2022.(Annexure - XII)
Sub. (16)) :	Seeking approval for change in syllabus and assessment pattern of Soft Skill subjects from the Academic Year 2020-2021 even semester onwards
Res.	:	The Chairman presented the syllabus and assessment pattern of Soft Skill subjects and apprised of implementing the two courses from 2020-21 (UHS001N and UHS003N) and one course (UHS002N) from 2021-22. After the discussion it was resolved to approve the syllabus and assessment pattern as follows: i) Fundamentals of Quantitative Aptitude & Soft Skills (UHS001N) ii) Advanced quantitative aptitude & soft skills (UHS002N) iii) Career planning & professional skills (UHS003N) (Annexure - XIII)
Sub. (17)	:	Seeking approval for recommendations of Equivalence Committee for B.E Program of 200 credits scheme students, admitted to B.E III semester 175 credits scheme for the Academic Year 2020-2021
Res.	:	The Chairman presented the recommendations of Equivalence Committee. After the discussions it was resolved to approve the recommendations of equivalence committee for B.E Program of 200 credits scheme students, admitted to B.E III semester 175 credits scheme for the Academic Year 2020-2021. (Annexure - XIV)
Sub. (18)	:	Seeking approval for recommendations of Gracing Policy Committee for UG/PG students from the Academic Year 2021-2022 onwards
Res.	:	The Chairman presented the recommendations of Gracing Policy Committee for UG/PG students from the Academic Year 2021-2022 onwards. After the discussions it was resolved to approve the recommendations as follows: • A maximum of 3 marks (for 100 marks SEE) or 1 mark (for 50 marks SEE) is to be added to one regular theory course of SEE, if a student has passed in all other regular courses and it is applicable only for odd/even Semester End Examinations(SEE)
		No gracing for award of class in final CGPA (max. of 0.05 to CGPA) This is applicable to all UG/PG students from academic year 2021-2022 onwards. (Annexure - XV)
ub. (19)	:	Seeking approval in reduction of duration for conduction of laboratory sessions for the Academic Year 2020-2021 owing to Covid-19 Pandemic
les.	:	The Chairman presented the details of number of weeks of laboratory sessions

Dr. S. S. Injaganeri	buy	Dr. P. N. Kulkarni	Melle	Dr.VeenaSoragavi	Cours	Dr. R. B. Khadiranalkar	Ore	Ðr. K. Chandrasekhar	M
Prof. M. S. Mohan Kumar		Prof.Madhu N. Belur		Prof. B. Annappa		Shri. R. S. Rajkumar		Dr. T.V. Ravi	1
Prof. G. R. Doddagoudar		Prof.SreedharaS heshadri		Shri. MadhukarManikD ube		Dr. P.G. Rakaraddi	Marjes	Dr. M. S. Hebbal	costela
Dr. S. H. Jangamshetti		Dr. V. B. Pagi	30	Dr. K. Shridar	m	Dr. V. S. Puranik	Dis	Dr. K. Bhat	(I)
Dr. (Smt) Bharati S. Meti	BU	Dr. (Smt) S. R. Patil	Rank	Dr. A D Devanagavi		Dr. (Smt) Jayashri G. Ghantimath	28.5	Dr. P. L. Timmanagoudar	(B)
Dr. S. S. Benchalli	an	Smt. VidyaHunagund		Dr.(Smt) RashmiHunnur		Shri. B. S. Haravi	MAR	Dr. S. G. Kambalimath	misal
Dr.(Smt) Bharati M Reshmi		Dr. B. F. Ronad	March	-				Dr. V. G. Akkimardi	()

		conducted for the Academic Year 2020-2021. The number of weeks reduced owing to Covid-19 pandemic was brought to the notice of members. After the discussions it was resolved to approve the reduced duration for the laboratory sessions viz. 5 weeks for I year B.E. and 2-3 weeks for B.E. III, V & VII semester students
Sub. (20)	:	Seeking approval for implementation of new examination (CIE/SEE) pattern and assessment policy for the UG/PG students from the Academic Year 2020-2021 onwards for the students admitted to first year
Res.	:	The Chairman presented the new question paper pattern for the CIE and SEE. After the discussion it was resolved to approve and implement new examination pattern and assessment policy for the UG/PG students admitted to first year from the Academic Year 2020-2021 onwards. (Annexure - XVI)
Sub. (21)	:	Seeking approval for implementation of new regulations for AICTE 100 Activity Points for the students admitted during 2018-2019 and 2019-2020 [Ref: VTU/BGM/BOS/A9/2020-21/447, dated. 27.04.2021]
Res.	:	The Chairman presented the details of VTU circular related to regulations for AICTE 100 Activity Points for the B.E students admitted during 2018-2019 and 2019-2020. After the discussion it was resolved to approve and implement modifications in number of AICTE activity points. The details of reduced number of AICTE Activity Points for the B.E students: Regular students admitted during 2018-2019 & 2019-2020: 50 points Lateral entry students admitted during 2019-2020 & 2020-2021: 25 Points Students transferred from other universities to B.E V semester during 2020-2021: 25 points (Annexure - XVII)
Sub. (22)	:	Seeking approval for new Programmes: B.E in Artificial Intelligence and Machine Learning M.Tech in Food Biotechnology M.Tech in Energy Science and Technology M.Tech in Defence Technology
Res.	:	The Chairman presented scheme and syllabus of new programmes. After the discussion it was resolved to approve the programmes. The members appreciated and expressed their happiness for starting new programmes in upcoming areas. (Annexure - XVIII)
Sub. (23)	:	Seeking approval for Scholarships, Studentships, Fellowships, Prizes and Medals constituted for meritorious UG/PG students for the Academic Year 2021-2022
Res.	:	The Chairman presented the list of Scholarships, Studentships, Fellowships, Prizes and Medals constituted for meritorious UG/PG students for the Academic Year 2021-2022. It was discussed and resolved to approve the proposed list for the A.Y. 2021-2022 and

Signatures of Academi	c Council M	embers					0.00		
Dr. S. S. Injaganeri	Just .	Dr. P. N. Kulkarni	While	Dr.VeenaSoragavi	Greva	Dr. R. B. Khadiranaikar	10h	Dr. K. Chandrasekhar	102
Prof. M. S. Mohan Kumar	0	Prof.Madhu N. Belur		Prof. B. Annappa		Shri. R. S. Rajkumar		Dr. T.V. Ravi	1
Prof. G. R. Doddagoudar		Prof.SreedharaS heshadri		Shri. MadhukarManikD ube		Dr. P.G. Rakaraddi	(Mary 200	Dr. M. S. Hebbel	ecottel.
Dr. S. H. Jangamshetti	0	Dr. V. B. Pagi	26	Dr. K. Shridar	Sn2	Dr. V. S. Puranik	ais	Dr. K. Bhat	the
Dr. (Smt) Bharati S. Meti	BW	Or. (Smt) S. R. Patil	Rang	Dr. A D Devanagavi	Air	Dr. (Smt) Jayashri G. Ghantimath	H.D.	Dr. P. L. Timmanagoudar	Ø.
Dr. S. S. Benchalli	Sh	Smt. VidyaHunagund		Dr.(Smt) RashmiHunnur		Shri. B. S. Haravi	ASIA	Dr. S. G. Kambalimath	maly
Dr.(Smt) Bharati M Reshmi		Dr. B. F. Ronad	Barel				4	Dr. V. G. Akkimardi	10

		post-facto approval for the previous years. (Annexure - XIX)
Sub. (24)	:	Seeking approval for Non-disclosure of SEE answer scripts to students in physical form for the Academic Year 2020-2021 owing to Covid-19 Pandemic
Res.	:	The Chairman presented difficulties faced by both faculty and students for disclosure/viewing of SEE answer scripts to students during the Academic Year 2020 2021 owing to Covid-19 Pandemic to all members present. After clarification the Non-disclosure of SEE answer scripts to students in physical form for the Academic Year 2020-2021 was approved. However, the committee members recommended to provide the facility of photocopy on request basis and to extend the same till the situation comes to normalcy.
Sub. (25)	:	Any other matter with the permission of the Chair
Sub. (25) Res.		The Chairman presented the new placement policy to be adopted at college from the academic year 2021-2022 onwards. After the discussions it was resolved to approve the new policy from the academic year 2021-2022 onwards The Chairman presented the proposal for implementing NEP 2020 from the academic year 2022-2023 at BEC. After the discussions it was resolved that, BEC can initiate the preparations for implementation of NEP 2020 and the same may be implemented upon receiving the guidelines from competent authorities. Further, members of the council suggested the institution/B.V.V Sangha to apply
		for converting/recognition as a state university.

The 17th Academic Council meeting was concluded with vote of thanks.



Board of Studies (BOS):

Every programme comprises of a BOS committee. The committee consists as its members the senior faculty, Alumni, VTU Nominee, Industry persons and subject experts. The HOD is the Chairman of the committee. The BOS meetings are conducted before the commencement of every academic year.

Functions

The Board of Studies of a Department shall

- 1. Prepare syllabi for various courses, keeping in view the objectives of the college, interest of the stakeholders and the state/ National requirements, for the consideration and approval of the Academic Council
- 2. Suggest methodologies for innovative teaching, learning and evaluation techniques
- 3. Suggest panel of names of experts to the Controller of examinations, for appointment as examiners in consultation of senior faculty members (Board of Examiners) of the department
- 4. Coordinate research, teaching, extension and other academic activities in the departments
- 5. Any other functions that may be assigned by the academic council

The structure of Board of Studies is as shown below table 10.4.

Table 10.4. The structure of Board of Studies

Sl. No	Category	Number	Nomination of the committee
01	Head of the Department	1	Chairperson
02	Faculty members at different levels across different specializations	6	Member
03	Subject Experts from outside the College nominated by Academic Council	2	Member
04	Experts from outside college, nominated by Vice Chancellor, Affiliating University	1	Member
05	Representative from Industry/ Corporate sector/ allied area nominated by Academic Council	1	Member
06	Postgraduate Meritorious alumnus nominated by Principal	1	Member
07	Co-opted members	1	Member

Board of Examiners (BOE):

Every programme comprises of a Board of Examiners (BOE) which is a subset of BoS. The head of the department is the chairman of the committee. It consists of senior faculty in the department as its members. The primary function of the BOE is to assist the Examination Process in smooth conduction of Semester End Examinations (SEE) and laboratory examinations. The committee approves the internal and external examiners for question paper setting and evaluation of answer scripts for each course. Also, it approves the list of internal and external examiners for laboratory examinations. The BOE meetings are held at the beginning of every semester.

The Structure of BOE for each department is shown below table 10.5.

Table 10.5. The Structure of BOE for each department

Category	Nomination of the committee
Head of the Department	Chairman
Senior faculty member from the department	BOE Coordinator
Senior faculty members of the department	Members

Finance Committee:

The functions of finance committee are

- 1. To prepare budget for the financial year based on probable income and expenditure.
- 2. Audit the accounts at the end of each financial year
- 3. To act as an advisory board to Governing Body/Governing Council

The Finance Committee will meet at least twice in a year. The structure of Finance Committee is as shown below table 10.6.

Table 10.6. The structure of Finance Committee

Sl. No.	Category	Nomination of the committee
1	Principal	Chairperson
2	Member of Governing Body	Member
3	Senior Faculty	Member
4	Person with Financial Management	Member
5	Finance Officer	Member-Secretary

Board of Appointments:

The Board of Appointments looks after recruitment process. During the process the norms stipulated by AICTE and KCSR are strictly adhered to. The structure of the board of Appointments is shown below table 10.7.

Table 10.7. The structure of the board of Appointments

Sl.No.	Category	Nomination of the committee
1	Chairman of the Governing Body/Governing Council	Chairperson
2	University nominee	Member
3	Nominee of SC/ST/OBC - Nominated by Vice-Chancellor	Member
4	AICTE Nominee	Member
5	Two subject Experts	Member
6	Concerned Head of the department	Member
7	Principal	Member- Secretary

Library Committee:

The College library is having library committee. The functions of the library committee are:

- 1. To look after the overall development of the library.
- 2. To approve the budget placed by the librarian and recommend the same to the Governing Body
- 3. To guide the Librarian in formulating general library policies and regulations which govern the functions of the Library
- 4. To work towards modernization and improvement of Library.
- 5. To formulate policies and procedures for efficient use of Library resources.
- 6. To adopt measures to enhance readership.

The structure of the Library Committee is shown below 10.8.

Table 10.8. The structure of the library committee

Sl. No.	Category	Nomination of the committee
1	Principal	Chairman
2	All Heads of the departments	Member
3	Librarian	Ex-officio secretary

Rules, Policies and procedures

- 1. The recruitment, promotion policies and other service related matters are as per KCSR rules of Karnataka State Government and B. V. V. Sangha.
- 2. The rules pertaining to dos and don'ts and examination system is published in BEC rules and regulations hand book provided to students at the time of admission to the college.

All the employees are made aware about the rules, regulations and procedures upon joining the college and subsequently the amendments are communicated during the faculty/staff meeting

10.1.4 Decentralization in working and grievance redressal mechanism (5)

Institute Marks: 5.00

List the names of the faculty members who have been delegated powers for taking administrative decisions. Mention details in respect of decentralization in working. Specify the mechanism and composition of grievance redressal cell including Anti Ragging Committee & Sexual Harassment Committee.

Majority of the decisions within the department are made by the respective heads of the departments. The detail of heads of the departments are shown in below table 10.9.

Table 10.9. Heads of the departments

Sl. No.	Name	Head of the Department
1	Dr. P. G. Rakaraddi	Civil Engineering
2	Dr. M. S. Hebbal	Mechanical Engineering
3	Dr. S. H. Jangamashetti	Electrical and electronics Engineering
4 Dr. V. B. Pagi Computer Science & Engineering		Computer Science & Engineering
5	Dr. K. Shridhar	Electronics and Communication Engineering
5	Dr. V. S. Puranik	Industrial Production
7	Dr. V. G. Akkimaradi	Automobile Engineering
3	Dr. K. Bhat	Instrumentation Technology
)	Dr. Shobha R. Patil	Information Science & Engineering
10	Dr. Bharati S. Meti	Biotechnology
11	Dr. Rashmi R. Hunnur	MBA

12	Dr. A. D. Devangavi	Artificial Intelligence and Machine Learning
13	Dr. J. G. Gantimath	Physics
14	Dr. P. L. Timmanagoudar	Chemistry
15	Dr. S. S. Benchalli	Mathematics
16	Dr. B. G. Hokrani	HSS

A core team comprising of senior faculty members lead the major processes in the institute to see that all the processes are intact. The list of faculty members in-charge of various committees / responsibilities is shown in the table below 10.10.

Table 10.10. The list of faculty members in-charge of various committees / responsibilities

Sl. No.	Name of faculty	Responsibilities
01	Dr. P. N. Kulkarni	Dean, Academics
02	Dr. V. S. Soraganvi	Dean, R & D
03	Dr. R. B. Khadirnaikar	Dean, Student Welfare
05	Dr. Chandrashekhar	Controller of Examinations
06	Dr. S. G. Kambalimath	Placement officer
07	Dr. B. S. Haravi	Development officer
08	Dr. R. L. Naik	Gymkhana Chairman
09	Dr. Mahabaleshwar S. K.	Campus Networking
10	Dr. Shridhar Kuntoji	Public Relation Officer
11	Dr. B. S. Haravi	Consultancy Services
12	Prof. S. S. Bopardekar	Central Store
13	Dr. Sarojini B. K.	Coordinator, Internal Complaints Committee (ICC)
14	Prof. B. R. Endigeri	SC/ST Cell
15	Dr. P. L. Timmanagoudar	Member Secretary, Antiragging Squad & Review Committee
16	Dr. V. S. Puranik	Entrepreneurship Development Cell
17	Dr. S. G. Karakun	Librarian
18	Dr. S. R. Patil	Coordinator, Student Induction Program (SIP)
19	Dr. P. L. Timmanagoudar	Chief Warden (Boys Hostel)
20	Dr. C. M. Veerendrakumar	Warden (Boys Hostel)
21	Dr. G. B. Megeri	Warden (Boys Hostel)
22	Dr. A. V. Sutagundar	Warden (Boys Hostel)
23	Prof. B. R. Endigeri	Warden (Boys Hostel)
24	Prof. Vivekanand B. S.	Warden (Boys Hostel)
25	Dr. V. S. Soraganvi	Chief Warden (Girls Hostel)
26	Dr. S. R. Patil	Warden (Girls Hostel)
27	Prof. S. S. Tambakad	Warden (Girls Hostel)
28	Prof. Sudha S. K.	Warden (Girls Hostel)

The mechanism of grievance redressal system:

The institute has three grievance redressal mechanisms in place namely

- 1. Student grievance redressal committee
- 2. Faculty/Staff redressal committee
- 3. Internal Complaints Committee

Student Grievance redressal system:

In each department HoD and Faculty / staff are organized at the beginning of every semester to discuss about anti ragging and 2 faculty members (1 male faculty) are selected for the institution level Anti-Ragging committee. The head of the department addresses the students of all semesters including fresh admitted students to create awareness about anti ragging.

The issues of students related to ragging on campus and in hostels are addressed through anti-ragging committee. In addition to this wardens also take appropriate measures to curb ragging in hostels.

Anti-Ragging committee:

The primary function of the committee is to look into the nuisance of ragging; Studying various aspects of ragging, means and methods to prevent it, possible action that can be taken against those who indulge in it, and action against offenders in the event of ragging. The structure of Anti-Ragging committee and the measures taken to prevent/curb ragging are as shown below:

Anti-Ragging Review Committee to Curb Ragging 2021-22 is as shown in table 10.11.

Table 10.11. Anti-Ragging Review Committee

Sl. No	Name of the Member	Designation	Mobile No	Position
1	Dr. S. S. Injaganeri	Principal	9481228825	Chairman
2	Dr. K. Chandrashekar	Controller of Examination	9448336581	Member
3	Dr. P. N. Kulkarni	Dean, Academic	9449767888	Member
4`	Dr. R. B. Khadarinaikar	Dean, Student Welfare	9448986877	Member
5	Shri. S. M. Avaji	C.P.I., Navanagar, Bagalkot	9480803930	Member
6	Dr. S. H. Jangamashetti	HOD, E & E Engineering	9845095956	Member
7	Dr. P. G. Rakaraddi	HOD, Civil Engineering	9448085007	Member
8	Dr. M. S. Hebbal	HOD, Mechanical Engineering	9481137429	Member
9	Dr. K. Shridhar	HOD, E &C Engineering	7259704913	Member
10	Dr. V. S. Puranik	HOD, IP & Engineering	9880224730	Member
11	Dr. V. G. Akkimaradi	HOD, Auto. Engineering	9448311580	Member
12	Dr. V. B. Pagi	HOD, C.Sc & Engineering	9342647100	Member
13	Dr. (Mrs.) Shobha R. Patil	HOD, I. Sc. & Engineering	9449534202	Member
14	Dr. K. Bhat	HOD, E &I Engineering	9880192002	Member
15	Dr.(Mrs.) Bharati S. Meti	HOD, Bio Technology	9448972628	Member
16	Dr. Rashmi R.Hunnur	HOD, MBA	9449159015	Member
17	Prof.(Mrs.) V.B. Hunagund	Associate Professor, CSE	9741685506	Member
18	Dr(Mrs.) J. G. Ghantimath	HOD, Physics	9448831331	Member
19	Dr. S. S. Benchalli	HOD, Mathematics	8762644634	Member
20	Dr. G. B. Megeri	Warden, Boys Hostel(V)	8431043774	Member
21	Prof. B.S. Vivekanad	Warden, Boys Hostel(N)	9480234598	Member
22	Prof. (Mrs) Sunita Tambakad	Warden, Girls Hostel	9900489841	Member

23	Dr. R. L. Naik	Chairman, Gymkhana	9880529043	Member
24	Dr. S. G. Karkun	Librarian	9448514872	Member
25	Miss. Sapna Gururaj Rathod	Student, Civil Engineering	7618744868	Member
26	Mr. Adish Khemalapure	Student, C. Sc. Engineering	6362010956	Member
27	Dr. P. L. Timmanagoudar	HOD, Chemistry	9448693600	Member/Sec.

Annexure - 1

B.V.V. Sangha's

BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS), BAGALKOT

MEASURES TO CURB THE MENACE OF RAGGING 2021 – 22

ANTI – RAGGING SQUAD

Table 10.12. Anti - Ragging Squad

Sl.No.	Team	Name of Squad Members	Dept.	Mobile No.	Position	
1		Dr. R. B. Khadairnaikar	Dean, Student Welfare	9448986877	Chairman	
2		Prof. B. R. Hiremath	CV	9448939700	Member/Coordinator	
3		Prof. S. R. Rathod	EE	7259244313	Member	
4		Prof. S. G. Nayak	EE	9738681084	Member	
5		Prof. Seema Shringeri	CV	9742935857	Member	
6		Mr. Raghav Bhattad	CV	7411431972	Member	
7	A	Miss. Sapna Gururaj Rathod	CV	7618744868	Member	
8		Mr. Sachin Ganjala	EE	6363014540	Member	
9		Miss. Neelaganga Goudar	EE	9108607989	Member	
10		Prof. R. Nagaraj	AU	9448972605	Member/Coordinator	
11		Dr. S. G. Sarganachari	ME	9448986768	Member	
12		Dr. Govindraj B. Chittapur	CSE	9739265167	Member	
13		Prof. C. M. Veerendrakumar	AU	9448336646	Member	
14	В	Mr. Amogh Deshpande	ME	8123280249	Member	
15		Miss. Akshta Goudar	ME	9008683889	Member	
16		Mr. Aman Agarawl	AU	9148863115	Member	
17		Miss.Vishakha Pujari	AU	9483732907	Member	
18	С	Prof. M.G. Kambalimath	E&I	9880168267	Member/Coordinator	
19		Prof. P. B. Bhagavati	E&I	9986591299	Member	
20		Prof. S.C.Hiremath	E&C	9901446534	Member	
21		Prof. Sharanappa	E&C	9900855255	Member	

42		Dr. P. L. Timmanagoudar	Chemistry	9448693600	Member/Secretary
41		Miss. Pavitra Katageri	BT	9686640724	Member
40		Miss. Sakshi Sonagaj	AIML	8792748644	Member
39		Miss. G. Madhulekha	CSE	7259799094	Member
38	Е	Miss. Krutika Jigajinni	ISE	9380715775	Member
37		Prof. Shilpa K. Jigajinni	BT	8722485018	Member
36		Prof. Shilpa P. Madhavanvar	CSE	80955 45010	Member
35		Prof. Deepa Kalappanavar	ISE	9481982363	Member
34		Prof. Swati Wadawadagi	ME	8970589969	Member/Coordinator
33		Mr. Bhaskar Patil	ISE	8446201993	Member
32		Mr. Shankargouda S Patil	BT	8660375506	Member
31		Mr. Shrinivas Inamati	IPE	8746831869	Member
30	D	Mr. Adish Khemalapure	CSE	63620 10956	Member
29		Dr. R. S. Wadawadagi	AIML	8095070548	Member
28		Prof. G.B. Megeri	BT	9448892288	Member
27		Prof. Girish Shettar	ISE	9620863183	Member
26		Dr. D. G. Mallapur	IPE	9448112990	Member/Coordinator
25		Miss. Akshata Biradar	E &I	6363467564	Member
24		Mr. Pavan Y. Vyasamudri	E &I	7019152880	Member
23		Miss. Geetha Maski	E&C	9148247764	Member
22		Mr. Anvesh Hiremath	E&C	8296101571	Member

VISITING PLACES AND TIMINGS OF ANTI-RAGGING SQUAD TEAM

1.	Quadrangle (Ground & First Floor)	2.	Canteen Premises & Library
•	First Visit : 09.55 – 10.15 am	•	First Visit : 09.55 – 10.15 am
•	Second Visit: 12.10 – 12.45 pm	•	Second Visit: 12.10 – 12.45 pm
•	Third Visit : 02.55 – 03.20 pm	•	Third Visit : 02.55 – 03.20 pm
•	Fourth Visit : 05.10 – 05.30 pm	•	Fourth Visit: 05.10 – 05.30 pm
3.	Boys Hostel	4.	Girls Hostel
•	First Visit : 07.00 – 08.00 am	•	First Visit : 07.00 – 08.00 am
•	Second Visit: 01.00 – 02.00 pm	•	Second Visit: 01.00 - 02.00 pm
•	Third Visit : 05.00 06.00 pm	•	Third Visit : 05.00 06.00 pm
	Department Visit: Visits may be planned randomly	and during la	h h assura

ACTION PLAN

Members of Ant-ragging squad is divided into five teams as A, B, C, D, & E, to visit the above mentioned venues at given timings as per following schedule, which is shown in table 10.13.

Table 10.13. Schedule

Sr. No.	Venue / Day	MON	TUE	WED	THU	FRI	SAT
1	Quadrangle (Ground & First Floor)	A	В	С	D	A	В
2	Canteen and Library	В	С	D	A	В	С
3	Boys Hostel (N-Block)	С	D	A	В	С	D
4	Department Visit	D	A	В	С	D	A
5	Girls Hostel	Е	Е	Е	Е	Е	Е

Instructions to Committee Members:

- 1. The above mentioned teams are informed to visit the said venues on that particular day at the given timings.
- 2. During the department visit, please sign in the ledger kept in the respective department with observations.
- 3. During the visit at quadrangle please sign in the ledger kept at Principal's Chamber.
- 4. During the visit at library please sign in the ledger kept at library office.

Faculty/Staff Grievance redressal system:

The institute has 2 associations:

- 1. Teaching Staff association: All the teaching staff of the institute are the members of the association. One senior teaching staff is elected as Faculty secretary to coordinate the activities.
- 2. Non-teaching staff association: All the non-teaching staff of the institute are the members of the association. One senior non-teaching staff is elected as staff secretary to coordinate the activities.

The grievances of the members are brought to the notice of the Faculty/Staff secretary, who in consultation with Principal of the institute resolves the issues.

Internal Complaints Committee

To address women's complaints associated with sexual harassment a committee is in place. Any women aggrieved in this matter may fearlessly approach the committee for a fair and concerned hearing and redressal. The objectives of the committee are:

- 1. To ensure provision of a conducive work and educational environment free from sexual harassment.
- 2. To take appropriate measures (active and preventive in nature) to prevent the harassment occurring.

The structure of Internal Complaints Committee is as shown below table 10.14.

Table 10.15. Internal Complaints Committee

Sl. No	Name	Designation
1	Dr. Sarojini B. K	Chairman
2	Sri. Mahantesh Hiremath	Member
3	Dr. K. Ramprasad	Member
4	Dr. S. U. Durgadasimi	Member
5	Smt. Neeta Hiremath	Member
6	Miss Vaibhavi Gayakwad	Member

10.1.5 Delegation of financial powers (5)

Delegation of Financial Powers is as shown below table 10.16.

Table 10.16. Financial details

Functionary	Financial Powers (up to Rs)	Limit for Consumables (Rs)	Limit for Non-Consumables (Rs)	Limit for hiring Services(Rs)
Head of the Institute	20,00,000	2,50,000	15,00,000	2,50,000
Head of the Department	1,00,000	10,000	90,000	10,000
Dean	1,00,000	10,000	80,000	10,000
Other-Professor	50,000	5,000	40,000	5,000
Associate Professor	25,000	5,000	15,000	5,000
Assistant Professor	20,000	3,000	15,000	2,000

10.1.6 Transparency and availability of correct/unambiguous information in public domain (5)

	Yes
Availability and dissemination of information through the Internet	All the information is available on the college website, www.becbgk.edu
	(including the general & mandatory disclosure)
Information provisioning in accordance with the Right to Information Act, 2005).	Yes
information provisioning in accordance with the Right to information Act, 2003).	Details are made available on the college website and also displayed on the college notice board

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (15)

Total Marks 15.00

Institute Marks: 5.00

ar marko 10.00

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3

CFY: (Current Financial Year),

CFYm1 : (Current Financial Year minus 1), CFYm2 : (Current Financial Year minus 2) and CFYm3 : (Current Financial Year minus 3)

Table 1 - CFY 2021-2022

Total Income 331690869			Actual expenditure(till): 540		Total No. Of Students 3140		
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
186763453	1862752	125333049	17731615	325866690	214839421	0	172199.40

Table 2 - CFYm1 2020-2021

Total Income 317328759			Actual expenditure(till): 439827331			Total No. Of Students 3047	
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
158451721	2569373	125916242	30391423	333161463	106665868	0	144347.66

Table 3 - CFYm2 2019-2020

Total Income 320179889			Actual expenditure(till): 367194831			Total No. Of Students 3045	
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
178354355	1381079	126409585	14034870	333588085	33606746	0	120589.44

Table 4 - CFYm3 2018-2019

Total Income 331690869			Actual expenditure(till): 540706111			Total No. Of Students 3140	
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
186763453	1862752	125333049	17731615	325866690	214839421	0	172199.40

Items	Budgeted in 2021- 2022	Actual Expenses in 2021- 2022 till	Budgeted in 2020- 2021	Actual Expenses in 2020- 2021 till	Budgeted in 2019- 2020	Actual Expenses in 2019- 2020 till	Budgeted in 2018- 2019	Actual Expenses in 2018- 2019 till
Laboratory equipment	1000000	652493	4200000	4068939	8000000	6814221	1500000	1076305
Laboratory consumables	100000C	445833	1800000	1777548	2000000	1734643	3000000	2562811
Teaching and non-teaching stat	3300000	2296006	3300000	3129425	3200000	3060361	3100000	2973928
Maintenance and spares	500000	0	100000	76524	500000	318301	500000	243059
R&D	100000C	0	1500000	300000	6000000	5870000	1000000	0

Training and Travel	100000	59893	100000	78676	1000000	593804	200000	171199
Miscellaneous Expenses*	1500000	1076220	1500000	123095	500000	410656	1500000	218096
Infrastructure Built-Up	1200000	1111905	1100000	1025969	400000C	2679252	4000000	3114466
Library	1500000	1373036	3300000	3226762	100000C	791267	1000000	0
Others, specify	0	0	0	0	0	0	0	0
Total	456600000	244327144	452500000	425190993	379000000	349361554	372200000	342495716

10.2.1 Adequacy of budget allocation (5)

Institute Marks: 5.00

Before the commencement of every academic year a meeting of all the Heads of departments is convened and budgetary requirement is taken for the categories of expenditure. The categories considered are procurement of new equipment, maintenance/servicing of existing equipment, consumables required, building space and also books required for the library for each department based in the curricular reforms suggested in the respective Board of Studies.

For buildings (new construction as well as maintenance of existing building) detailed plans and estimates are prepared and approval is taken for the same in the Governing Council meetings. A detailed report of all the development works undertaken and their current status is presented in the Governing Council meeting.

The budgetary requirements are met through the admission fees collected from the students and the revenue generated from the consultancy services. The budget allocated at the beginning of the financial year is adequate for managing the expenditure during that year. In case of any additional funds required, the management provides the requisite support.

10.2.2 Utilization of allocated funds (5)

Institute Marks: 5.00

During each financial year out of the total budget allocated nearly 85% to 95% of the budget is utilized under the respective category of expenditure proposed. For the financial year 2020-21 the outlay of the budget was Rs. 45,25,00,000 and the total expenditure being Rs. 42,51,90,993 thus, 93.96% of the total budget has been utilized. The major component of expenditure is towards the salary of faculty and staff, with nearly 69.15% of the total budget being allocated. The budget utilized under other categories is 30.85%. The management contributes 15% and 100% of the salary component for faculty and staff of Aided and Unaided departments respectively.

In total, the budget allocated during each financial year is effectively utilized and the institute is self-sustaining to a large extent. In case of any shortfall in finances required for developmental activities the management provides the requisite support.

10.2.3 Availability of the audited statements on the institute's website (5)

Institute Marks: 5.00

Yes

10.3 Program Specific Budget Allocation, Utilization (30)

Total Marks 30.00

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3

CFY: (Current Financial Year),

CFYm1: (Current Financial Year minus 1), CFYm2: (Current Financial Year minus 2) and CFYm3: (Current Financial Year minus 3)

Table 1 :: CFY 2021-2022

Total Budget 3900000		Actual expenditure (till): 263344		Total No. Of Students 303
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1700000	2200000	191036	72308	869.12

Table 2 :: CFYm1 2020-2021

Total Budget 3900000		Actual expenditure (till): 162854		Total No. Of Students 297
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1700000	2200000	72000	90854	548.33

Table 3 :: CFYm2 2019-2020

Total Budget 2160000		Actual expenditure (till): 504515		Total No. Of Students 297
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1700000	460000	167560	336955	1698.70

Table 4 :: CFYm3 2018-2019

Total Budget 1870000		Actual expenditure (till): 148424		Total No. Of Students 290
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1700000	170000	81240	67184	511.81

Items	Budgeted in 2021- 2022	Actual Expenses in 2021- 2022 till	Budgeted in 2020- 2021	Actual Expenses in 2020- 2021 till	Budgeted in 2019- 2020	Actual Expenses in 2019- 2020 till	Budgeted in 2018- 2019	Actual Expenses in 2018- 2019 till
Laboratory equipment	100000C	191036	1000000	72000	1000000	167560	1000000	81240
Software	200000	0	200000	0	200000	0	200000	0
Laboratory consumable	100000	62308	100000	0	100000	0	100000	10422
Maintenance and spares	10000	5000	10000	5000	10000	5000	10000	5000
R&D	500000	0	500000	0	500000	0	500000	0
Training and Travel	100000	0	100000	78754	350000	327955	50000	46762
Miscellaneous Expenses*	10000	5000	10000	7100	10000	4000	10000	5000
Total	1920000	263344	1920000	162854	2170000	504515	1870000	148424

10.3.1 Adequacy of budget allocation (10)

Institute Marks: 10.00

Before the commencement of every academic year a meeting of Head of the department, faculty and staff members is convened and budgetary requirement is taken for the categories of expenditure.

The categories considered are procurement of new equipments, maintenance/servicing of existing equipments, consumables required and also books required for the library for each department based in the curricular reforms suggested in the respective Board of Studies.

The budget allocated at the beginning of the financial year is adequate for managing the expenditure during that year. In case of any additional funds required, the management provides the requisite support.

10.3.2 Utilization of allocated funds (20)

Institute Marks: 20.00

During any financial year out of the total budget allocated nearly 70% to 90% of the budget is utilized under the respective category of expenditure proposed.

During the financial year the allocated budget was Rs. 8,57,000.00 and the expenditure being Rs. 7,46,635.00 indicating the utilization of 87.12%.

The expenditure towards the procurement of laboratory equipments/consumables is 75.38% of the allocated budget.

The budget utilized under training and travel is around 5.29%. For some of the equipments procured and training and travel expenditures funds released under TEQIP-II and TEQIP-III were utilized. Thus during each year the budget is properly allocated and efficiently utilized.

10.4 Library and Internet (20)

Total Marks 20.00

10.4.1 Quality of learning resources (hard/soft) (10)

Institute Marks : 10.00

Relevance of available learning resources including e-resource

Number of titles : 43,955

Number of volumes : 1, 39,000

Availability of digital library contents is as shown in table 10.17.

Table 10.17. Learning resources

V	N. CT. 1 . 1M /D . 1 . 1	No. of Technical j	ournals subscribed	Scholarly journal titles (originals and reprints)	
Year	No. of Technical Magazines/Periodicals	Hard Copy	Soft copy		
2017-18	15462	162	15300	15462	
2018-19	15462	162	15300	15462	
2019-20	15462	162	15300	15462	
2020-21	15462	162	15300	15462	

Availability of digital library contents on exclusive server: Yes

Availability of digital library contents, if available then mention number of courses, number of e-books, etc.:

Table 10.18. Details of digital library

Name of course	Digital Content	E-books	NPTEL
Civil Engineering	10	710	130
Mechanical Engineering	12	1100	159
E & E Engineering	15	575	75
Computer Science & Engineering	16	8016	92
E&C Engineering	16	1530	94

IP& Engineering	8		
Automobile Engineering	3		2
TT .	9		
ISE	16		
ВТ	8		34
Mathematics		226.	73
Physics		88	72
Chemistry		86	90
Biomedical Engineering		300	
Chemical Engineering		29	
Energy		221	
Aeronautical Engineering		130	
Control, Robotics, Mechatronics		101	
Automotive Engineering		123	
Engineering &Nanotechnology		123	
<u></u>			

Availability of an exclusive server : Yes over intranet

Availability over Intranet/Internet : Yes

Availability of exclusive space/room : Yes

Number of users per day : 30

· Accessibility to students: Yes.

Library services on Internet/Intranet INDEST or other similar membership Archives is available

· Support to students for self-learning activities

The following facilities are created for self-learning / learning beyond syllabus:

- 1. A digital library is setup to facilitate online access of the information.
- 2. NPTEL (National Project on Technology Enhanced Learning): Access to online learning material prepared by IIT and other esteemed institutions are hosted on institution server.
- 3. Institute is registered as member of National Digital Library (NDL).
- 4. Institute is registered as a member of DELNET
- 5. 5000 CDs are mirrored in the server for supporting curriculum activities and learning beyond syllabus.
- 6. Virtual laboratory facility has been deployed in the campus.
- 7. Facilities are created in the library for MHRD initiatives like Swayam, Shakshat, Shodhaganga and E-Shodhasindhu.

10.4.2 Internet (10) Institute Marks : 10.00

Name of the Internet provider : Telexair

Available bandwidth : 1 Gbps

Wi Fi availability

Internet access in labs, classrooms, library and offices of all Departments: Yes

: Yes

Security arrangements: Firewall Installed

Annexure I (A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

- 1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)

Program should specify 2-4 program specific outcomes.

PSO1	To demonstrate the abilities to apply the basic science and engineering fundamentals to solve complex engineering problems in the society.
PSO2	To demonstrate the abilities to provide information and communication technology solutions using modern engineering and IT tools at affordable cost working as a team member.
PSO3	To exhibit ethical, social and professional responsibilities and engage in life long learning.

Declaration

The head of the institution needs to make a declaration as per the format given -

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.
- · It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute willbe initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute

Name: Dr S S Injaganeri Designation: Principal

Signature:

Seal of The Institution :

PRINCIPAL, Basaveshawar Engineering College BAGALKOT.

Place: Bagalkot

Date: 19-04-2022 20:43:34