



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	KARNATAK SCIENCE COLLEGE
Name of the head of the Institution	Dr. (Smt) A S Bellad
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	0836-2215410
Mobile no.	8296762441
Registered Email	kcdnaac@gmail.com
Alternate Email	principal.kscd@gmail.com
Address	College Road, Near All India Radio, Dharwad
City/Town	Dharwad
State/UT	Karnataka
Pincode	580001

2. Institutional Status																									
Affiliated / Constituent	Constituent																								
Type of Institution	Co-education																								
Location	Urban																								
Financial Status	state																								
Name of the IQAC co-ordinator/Director	Dr. L T Nayak																								
Phone no/Alternate Phone no.	08362215400																								
Mobile no.	9448746967																								
Registered Email	kcdiqacvision2324@gmail.com																								
Alternate Email	principal.kscd@gmail.com																								
3. Website Address																									
Web-link of the AQAR: (Previous Academic Year)	<a href="http://www.kscd.ac.in/IOAC2021/igac201819.zip">http://www.kscd.ac.in/IOAC2021/igac201819.zip</a>																								
<b>4. Whether Academic Calendar prepared during the year</b>	Yes																								
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="http://www.kscd.ac.in/igac1920/2019-20AQAR docs.zip">http://www.kscd.ac.in/igac1920/2019-20AQAR docs.zip</a>																								
5. Accrediation Details																									
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>A</td> <td>3.26</td> <td>2009</td> <td>25-Sep-2009</td> <td>24-Sep-2014</td> </tr> <tr> <td>3</td> <td>B</td> <td>2.22</td> <td>2019</td> <td>26-Sep-2019</td> <td>03-Mar-2024</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	2	A	3.26	2009	25-Sep-2009	24-Sep-2014	3	B	2.22	2019	26-Sep-2019	03-Mar-2024
Cycle	Grade	CGPA	Year of Accrediation	Validity																					
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2	A	3.26	2009	25-Sep-2009	24-Sep-2014																				
3	B	2.22	2019	26-Sep-2019	03-Mar-2024																				
<b>6. Date of Establishment of IQAC</b>	01-Jun-2001																								
7. Internal Quality Assurance System																									
Quality initiatives by IQAC during the year for promoting quality culture																									
Item /Title of the quality initiative by IQAC	Date & Duration		Number of participants/ beneficiaries																						

Celebrated International Year of Periodic Table: 2019	29-Aug-2019 1	158
Ten days workshop on Python programming	12-Mar-2019 10	32
Research Facility Training Programme (RFTP) For Research Scholars	21-Nov-2019 1	15
Communication and Interview Skills	29-Feb-2020 2	96
One-Day Workshop on	01-Feb-2020 1	40
<a href="#">View File</a>		

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Chemistry	SERB	SERB, New Delhi	2020 1460	4192144
Geology	SERB	SERB, New Delhi	2018 1095	2310000
<a href="#">View File</a>				

**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

3

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

**11. Whether IQAC received funding from any of the funding agency to support its activities during the year?**

No

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

1. Research Facility Training Programme (RFTP) For Research Scholars. .

2. Encouragement of the faculty for Promotion of Interdisciplinary Research

3. Faculty encouraged to move MoU with industry/Institutions.

4. Encouraging students to increase greenery in the campus and make it plastic free.

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**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achievements/Outcomes
Detailed calendar of events for the academic year is prepared and uploaded in the college website and displayed on the college notice board	All the programmes were conducted strictly as per the calendar of events. Students are aware of the schedules of the admissions, internal theory and practical examinations, OMR submission for enrolment for university examinations, sports/extracurricular activities, celebration of national festivals and the list of holidays.
ICT based communication system in conduct of examinations	in conduct of examinations * Semester end theory examination schedule of the university was published in the college website. It was also displayed on the college notice board. * Semester end practical examination schedule of the university was published in the college website and displayed on the college notice board. * Performance of the students in semester end practical examinations are digitally uploaded to the university website soon after the completion of examinations. * Semester end theory examination results were made available in the college website.
Soliciting more funds for research SERB DST DBT UGC VGST	* SERB has sanctioned INR 41,92,144/- to Dr. Saraswati Masti of Chemistry dept. * SERB has sanctioned INR 23,10,000/- to Dr. Manjunath S. of Geology dept. *VGST has sanctioned INR 9,00,000/- to Dr. Rajesh Kalkambkar of Chemistry dept. *UGC has sanctioned INR 3,35,000/- to Dr. Kariyappa Katagi of Chemistry dept.
Enhanced interactions with Industry/field/site experts.	Industry/field/site visits have been the prominent programmes for most of the science departments. 1. Frequent visits to the medicinal plant nurseries and interaction with the experts regarding the medicinal plants, their

cultivation and uses. 2. Student's interaction with experts in poultry, hatcheries, fish culture units. 3. Panel Discussions with Industry Experts  
 a) Central Institute of Plastics Engineering and Technology, Mysore b) Gokak Cotton Textile Ltd., Gokak. c) Renuka Sugars Ltd., Mudalagi 4. Discussion with experts like mining engineers and geologists. 5. Household survey regarding socioeconomic aspects to understand the problems faced by the people (general public). Discussion about environmental issues with industry representatives.

Encouragement of under graduate science students for Skill Components programmes.

Every Science Department offers a small skill development component which is not covered in the curriculum. Students have participated and gained Hands-On-Training during these skill developing sessions. After completion of the hands-on training, the students are assigned small projects to test the outcome of the training programme.

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**14. Whether AQAR was placed before statutory body ?**

Yes

Name of Statutory Body	Meeting Date
Governing Council/HOD meeting	14-Sep-2021

**15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?**

No

**16. Whether institutional data submitted to AISHE:**

Yes

Year of Submission

2020

Date of Submission

18-Mar-2020

**17. Does the Institution have Management Information System ?**

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

Documentation, Validation and Verification (DVV) committee has been formed. The committee gathers information from all departments regarding academic programmes, certificate courses, major activities

which have been conducted, achievements of staff and students, extension work, research and collaborative work, as well as seminars and workshops organized for staff and students. The committee also collects information regarding the financial assistance extended to students and staff by the college or University, in order to enable them to participate in sports and extra curricular activities, seminars, workshops, science exhibitions and training activities. The head of this committee and the Chairpersons of departmental study circles submit their reports regarding the annual activities conducted in the College, along with documents, evidences and photographs. These reports are published in the college miscellany (named as VARNASAPATAKA) this magazine is released once a year, and it is distributed to all the students, teachers and other invitees who attend the miscellany release function. College Prospectus The college prospectus contains information regarding the Vision, Mission Goal and profile of the institution. In addition, the prospectus contains information about the profile of each Department teaching, nonteaching and technical staff, subject combinations, fee structure, scheme of examination, available infrastructure and facilities in the college campus and the all the amenities like hostels, gymkhana, health center, NCC and NSS. Scanned Documents are the scanned copies of the evidences Album of Photographs It contains a collection of pictures or photographs taken during departmental and college activities.

## Part B

### **CRITERION I – CURRICULAR ASPECTS**

#### **1.1 – Curriculum Planning and Implementation**

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

IQAC forms a committee to prepare the semester-wise calendar of events and to design the time table for all the U.G. and P.G. programmes conducted in various departments of the college, as per university norms. The calendar of events and time table are displayed on the college notice board and they are uploaded in the official website of the college. IQAC also monitors the strict implementation of the academic programmes as per the calendar of events and the

time table. The college has self-designed certificate, skill based and value added courses, emphasizing on student employability, enhancement of skill and knowledge, as well as entrepreneurship development. Before the end of the last working day for each semester, the teachers are informed about their workload and courses for next semester. This process enables the teachers to prepare a teaching plan, in advance, for the next academic assignment. IQAC provides all the teachers with a diary, where they have to record their lecture plans and work execution details. This will be monitored and duly acknowledged by the higher authority. Teachers refer standard text books and reference books prescribed by the university, along with the latest information available online in various standard websites; they also explore other resources which are available for effective implementation of the curriculum. In addition to traditional teaching methods, various other teaching methods like the conduct of quiz programmes, group discussion, demonstrations, debates, power point presentations, allied projects, industrial visits, add-on practical's, assignments, videos, use of charts and graphs and case studies are used for effective implementation of the curriculum. Based on semester-wise result analysis, corrective measures are suggested by IQAC to conduct bridge courses and remedial classes to strengthen the academic standards of the students and to improve the results. Academic review and feedback from students/parents/stakeholders/employers/alumni are taken periodically on different aspects. Feedback analysis will be done by an external agency and the results will be submitted to the higher authority. Concerned authority will conduct regular meetings. The short comings in teaching and other factors which are indicated in the feedback report will be intimated to the concerned teacher and suggestions for improvisation will be provided by the higher authority to the concerned teacher.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
No	NIL	Nil	0	NIL	NIL

### 1.2 – Academic Flexibility

#### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	NIL	Nil
No file uploaded.		

#### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
MSc	Physics	Nil
MSc	Chemistry	Nil
MSc	Mathematics	Nil

#### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	Nil	Nil

### 1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Nil	Nil	Nil
No file uploaded.		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
MSc	Physics	22
MSc	Chemistry	18
MSc	Mathematics	49
BSc	Geography	27
BSc	Zoology	166
BCA	Computer Applications	41
BSc	Computer Science	40
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**1.4 – Feedback System**

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?  
(maximum 500 words)

Feedback Obtained
<p>Online feedback mechanism is structured looking at the Covid-19 pandemic situation for the academic year 2019-20. This mechanism is executed by preparing Google forms for five different categories Viz., students, parents, alumni, teachers and employer. Students feedback is based on four criterions: curriculum, infrastructure, teaching learning process and overall functioning of the college. All the four criterion includes curriculum, learning environment and evaluation, canteen facility, health care centre, gymkhana, functioning of anti-ragging cell, Counselling centre, banking, library facility etc. Feedback on Teachers (Teaching and Learning Process):This feedback covers teaching learning process, punctuality, communication skills, approach towards the students, sharing of innovative ideas etc. IQAC emphasized on teachers innovativeness, use of ICT in teaching methodology, interactive teaching, and student involvement in learning. The IQAC members have collected individual teacher's feedback and have been analysed. Analysed report is submitted to the head of the institution, for further course of action (corrective measures/ suggestions to the concerned teacher, for improvement). Parents feedback: Parents feedback is collected based on overall development of their children and about learning environment, infrastructure facilities available in the college, teacher's friendliness and imparting value based education. Alumni feedback: The alumni association of the college is a registered body. Feedback is collected from the members about the role of college in the development of students personality and employability, academic excellence and also how the</p>



institution has helped them to acquire life skills. Employer feedback: The members of IQAC have also collected feedback from potential employers on the current curriculum. This feedback includes the responses by employers and industry experts, especially their views on the academic curriculum. Placement cell takes the cognizance of this feedback while organizing training sessions.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
MSc	Mathematics	35	810	35
MSc	Chemistry	40	701	20
MSc	Physics	35	690	20
BSc	Computer Science	50	88	48
BCA	Computer Applications	60	132	66
BSc	General	365	1680	418

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### 2.2 – Catering to Student Diversity

#### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1655	114	116	11	17

### 2.3 – Teaching - Learning Process

#### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
127	127	15	15	1	5

[View File of ICT Tools and resources](#)

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#### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Student across India takes admission in this institution. The ethos of the institution is towards being inclusive and empowering its students. Hence, the college maintains the mentoring system as per the UGC guidelines. The IQAC began the task in right earnest in the academic year 2019-20. In the early months of the academic year, there were a series of meetings held to decide the course of action. For UG/ PG courses in the respective department, HOD's are assigned with the task of allotting students to the respective teacher in their departments. A group of 15 to 20 students are assigned to each mentor by the HOD of the respective department. • Every practical subject has a practical in-charge, who monitors the experiments, the equipment, preparatory material (charts/ manuals) as well as difficulties faced by students during the practical session (in

association with the laboratory experts). • A mentor will guide the B.C.A/B.Sc. (CS) students, regarding their placement. • For first year students, the mentor provides information regarding the facilities available in the college, various activities conducted by the college, examination pattern, and health and stress management in addition to the information given during the induction programmes. • Second and third years students, the mentor provides information about specialized subjects during their curriculum, and carrier opportunities related to those subjects. • For girl students, apart from the mentors and hostel warden, there will be a lady staff member from AKKA association of the college who will address the gender specific problems of the girl students. Mentors will monitor and keep the record of the students progression to higher education, placements etc. Slow learners are identified by the mentors after the evaluation of first internal tests and such students are listed for conducting remedial classes.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1769	127	1:14

## 2.4 – Teacher Profile and Quality

### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
81	43	38	86	68

### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	Dr. S M Tuwar	Associate Professor	Best Teacher Award "Rasayana Shikshaka Ratna:2019-20", M.M. Arts and Science College, Sirsi
2019	Dr. Rajappa S. K.	Associate Professor	Young Scientist Award for Oral presentation, Srinivasa University, Mangalore

[View File](#)

## 2.5 – Evaluation Process and Reforms

### 2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BCA	B.C.A	Semester	30/09/2020	05/11/2020
BSc	B.ScCS	Semester	30/09/2020	05/11/2020
BSc	General	Semester	30/09/2020	05/11/2020
MSc	MSCCHE	Semester	17/10/2020	12/11/2020

MSc	MSCPHY	Semester	17/10/2020	12/11/2020
MSc	MSCMAT	Semester	17/10/2020	12/11/2020
<a href="#">View File</a>				

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

a) Examination Process and Reforms: Institution has adopted Karnatak University's examination rules. Two internal theory and one practical examination per semester will be conducted by the concerned teacher by adopting centralized Continuous internal evaluation system (CIE) to maintain the academic standard of the students. The evaluation report is made available to the respective student and also it is uploaded to the Karnatak University website. Grievances of the students if any are invited and are addressed within stipulated time without hampering the academic calendar of events. Based on the CIE report, after the first internal examination, slow learners are identified based on the performance and remedial classes are conducted for such students. Schedule for the semester end examinations (Both theory and practical) is notified by the university. Principal appoints a teacher as Chief Superintendent for the smooth conduct of theory examinations. Orientation to the supervisors is given before the examination. University appoints a sitting and a flying squad to look after the examination proceedings. For the semester end practical examinations, university will appoint an external examiner and the principal appoints an internal examiner. After the assessment, practical marks will be uploaded to the university examination portal.

b) Evaluation Process and reforms: Bar coding: Every answer paper is given a barcode. Students register number along with a copy of the barcode is physically removed before the evaluation and the paper is coded. The coded answer papers are assessed and decoded. University will notify the results after the evaluation and the same is published in the website. Photocopy: Students are permitted to get the photocopy of their answer scripts to check the accuracy of valuation. Revaluation: Soon after the announcement of results, students are given an opportunity to apply for revaluation within the specified date. Third Valuation: There is a provision for the third valuation. If difference in the marks between the first and the revaluation is more than 21 the same answer paper is considered for third valuation. MCQ system: For mandatory subjects like Environmental Studies, Human Rights, Indian Constitution etc. Multiple Choice Questions system is followed.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

A centralized calendar of events is prepared by a committee before the commencement of each academic year and the same is uploaded in the college website and displayed on the notice boards of all the department. It consists of important dates to guide the students and teachers for the academic and extracurricular activities to be conducted throughout the year. Based on the calendar of events, a sub-committee prepares a detailed time table for the internal theory and practical examinations and finally distributed among the teachers and students. Teachers' academic workload, lesson plan etc., are prepared based on the calendar of events. In addition to the existing academic assignments, every teacher is allotted with extracurricular activities like gymkhana, youth festival, science association, celebration of national festivals and will be conducted/celebrated as per the calendar of events. Every event is strictly monitored by a committee headed by the Principal and Vice President of gymkhana. At the end of each academic year, a committee overviews the implementation of the events mentioned in the calendar and a feedback from the students and the staff holders is obtained and analyzed. The college has a vibrant culture of instilling inquisitiveness and scientific temper among the students through a number of activities.

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

[http://www.kscd.ac.in/igac1920/2019-20\\_AOAR\\_docs.zip](http://www.kscd.ac.in/igac1920/2019-20_AOAR_docs.zip)

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
BCA	BCA	Computer Application	51	47	92.
BScCS	BSc	Computer Science	46	46	100
BSc	BSc	General	334	277	83
MScPhy	MSc	Physics	40	29	73
MScChem	MSc	Chemistry	38	34	88
MScMat	MSc	Mathematics	49	42	86

[View File](#)

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

[http://www.kscd.ac.in/igac1920/2019-20\\_AOAR\\_docs.zip](http://www.kscd.ac.in/igac1920/2019-20_AOAR_docs.zip)

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	1460	SERB, New Delhi	2310000	500000
Major Projects	1095	SERB, New Delhi	4192144	200000

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### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Two Days workshop on Communication and Interview Skills	BCA BSc(CS)	29/02/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
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Young Scientist Award for Oral presentation.	Mr. Rathod	Srinivasa University, Mangalore	19/10/2019	International conference
Young Scientist Award for Oral presentation.	Arjun G Kalkhambkar	Srinivasa University, Mangalore	19/10/2019	International conference
<a href="#">View File</a>				

### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	Nil
No file uploaded.					

### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
000	000	000

#### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Chemistry	2
Criminology and Forensic Sciences	1
Botany	1
physics	1

#### 3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Botany	5	1.86
International	Botany	1	2.09
International	Chemistry	22	4.87
National	Geology	2	7.95
International	Geography	1	6.25
International	Physics	15	2.17
National	Zoology	2	0.23
International	BCA	1	.10
<a href="#">View File</a>			

#### 3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
NIL	Nil
No file uploaded.	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Positron annihilation studies of free volume changes accompanying the incorporation of lead nitrate in PVA- PVP polymeric blend	Dr. Blaise Lobo	Radiation Physics and Chemistry	2019	10	Karnatak Science College, Dharwad	4
Effect of amino anilines on the fluorescence of coumarin derivative	Dr. (Smt). Nirupama J. M.	Journal of Luminescence	2019	5	Karnatak Science College, Dharwad	3
1?Aryltriazines in the Suzuki, Heck, and Sonogashira Reactions in Imidazolium?ILs, with [BMIM(SO <sub>3</sub> H)][OTf] or Sc(OTf) <sub>3</sub> as Promoter, and Pd(OAc) <sub>2</sub> or NiCl <sub>2</sub> ·glyme as Catalyst	Dr. Raj Kalkambkar	European Journal of Organic Chemistry	2019	16	Karnatak Science College, Dharwad	7
Facile access to libraries of diversely substituted 2-aryl-benzoxazole	Dr. Raj Kalkambkar	Tetrahedron Letters	2019	16	Karnatak Science College, Dharwad	10

s/benzothiazoles from readily accessible aldimines via cyclization/cross coupling in imidazolium-ils with ...						
Ethyl vanillin incorporated chitosan/poly (vinyl alcohol) active films for food packaging applications	Dr.(Smt). Saraswati P. Masti	Carbohydrate polymers	2020	13	Karnatak Science College, Dharwad	25
Physico-chemical and functional properties of rutin induced chitosan/poly (vinyl alcohol) bioactive films for food packaging applications	Dr.(Smt). Saraswati P. Masti	Food Hydrocolloids	2020	13	Karnatak Science College, Dharwad	22
Physico-chemical and functional properties of rutin induced chitosan/poly (vinyl alcohol) bioactive films for food packaging applications	Dr.(Smt). Saraswati P. Masti	Green Materials	2019	13	Karnatak Science College, Dharwad	18

Dielectric relaxation in a cadmium chloride-doped polymeric blend	Dr. Blaise Lobo	Bulletin of Materials Science	2019	10	Karnatak Science College, Dharwad	8
Study of polycarbonate-bismuth nitrate composite for shielding against gamma radiation	Dr. Blaise Lobo	Journal of Radioanalytical and Nuclear Chemistry	2020	10	Karnatak Science College, Dharwad	7
Synthesis, characterization and photophysical studies on novel benzofuran-3-acetic acid hydrazide derivatives by solvatochromic and computational methods	Dr. G. H. Malimath	Journal of Molecular Structure	2019	9	Karnatak Science College, Dharwad	10
<a href="#">View File</a>						

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Studies on the effect of temperature on dielectric relaxation, activation energy, enthalpy, entropy, and	G.H, Malimath	Journal of Chemical Thermodynamics	2020	88	2	Elsevier International Publishing



molecular interactions of some , phenol, and their binary mixtures using x-band microwave bench						
Design, synthesis, molecular docking, anti-proliferative and anti-TB studies of 2H-chromen-8-azapero[4.5]decane-7,9-dione conjugates	K S Katagi	Journal of Molecular Structure	2020	103	1	Taylor and Francis Group
Study of polycarbonate-bismuth nitrate composite for shielding against gamma radiation	Blaise Lobo	Journal of Radioanalytical and Nuclear Chemistry	2020	67	7	Springer International
Effects of stereo electronic factors of coumarin derivative during their interaction with TiO <sub>2</sub> Nanoparticles	J.M. Nirupama	journal of molecular liquids	2019	111	1	Elsevier International Publishing
Facile Access to Libraries of Diversely Substituted 2-Aryl-Benzoxazole	R G Kalkhambkar	Tetrahedron Letters	2019	168	10	Elsevier International Publishing

<p>s/Benzothiazoles from Readily Accessible Aldimines via Cyclization/Cross Coupling in Imidazolium-ILs with Pd(OAc)<sub>2</sub> or NiCl<sub>2</sub>(dppp) as Catalyst</p>						
<p>Taxonomic identity, occurrence of six species of <i>Salacia</i> and first report on chromosome numbers of the <i>Salacia chinensis</i> L. and <i>Salacia oblonga</i> Wall ex Wight and Ern Var. from Western Ghats of Karnataka (India)...</p>	<p>C G Patil</p>	<p>Genet Resour Crop Evol</p>	<p>2019</p>	<p>66</p>	<p>Nil</p>	<p>Springer International</p>
<p>Influence of Boswillic acid on Physical, Structural and Morphological Properties of poly (Vinyl Alcohol) films for active food</p>	<p>Saraswati Masti</p>	<p>Chemical Data Collection</p>	<p>2020</p>	<p>12</p>	<p>17</p>	<p>Elsevier International Publishing</p>

packaging						
Design, synthesis, antibiofilm, quorum sensing inhibition, anticancer and docking studies of novel 2-(4-acridine-9-ylamino)isoindolin-1,3-dione	Kariyappa Katagi	Chemical Data Collection	2019	12	1	Elsevier International Publishing
Electronic excitation energy transfer studies in binary mixtures of novel optoelectronically active 1,3,4-oxadiazoles and coumarin derivatives	G.H,Mali math	Chemical Physics Letters	2020	235	1	Elsevier International Publishing
Synthesis, Molecular Modelling Studies and antimicrobial activity of Coumarin and 1-Azacoumarin linked 1,2,3-Triazole	R G Kalk hambkar	Chemical Data Collections	2020	12	10	Elsevier International Publishing

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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	2	10	3	Nil
Presented	5	7	Nil	Nil

papers

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### 3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
7 days awareness programme on Solid waste management and plastic free campus	NSS Unit, Karnatak Science College, Dharwad	45	50
Plantation	NSS Unit, Karnatak Science College, Dharwad	6	15
Roadside plastic collection	NSS Unit, Karnatak Science College, Dharwad	3	21
IGC/RDC, ARMY ATTACHMENT CAMP	NCC 1/24 COY KSCD	1	2
EBSB - II	NCC 1/24 COY KSCD	1	1

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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NIL	NIL	NIL	Nil
No file uploaded.			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Swachh Bharat Abhinaya	NSS Unit, Karnatak Science College, Dharwad	Plastic free campus drive	3	21
Swachh Bharat Abhinaya at Dasanakoppa Village	NSS Unit, Karnatak Science College, Dharwad	Village cleaning	1	18
Swach Bharat Abhiyan	Botany Dept. Study Circle	Campus cleaning	5	47

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### 3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Ph.D. Programme in Applied Genetics	Dr.C.G.Patil,KSCD & Dr. Vasudev, College of Forest Biology, Sirsi	NIL	1885
Sharing of laboratory facilities at PG Dept. of Physics, K.U.Dharwad	Dr. Saraswati Masti, Chem. Dept, KSCD & Dr.Rajashekhar F. Bhajantri, P.G.Dept. of Physice, KUD	NIL	2604
Sharing of laboratory facilities at PG Dept. of Physics, K.U.Dharwad	Dr. Saraswati Masti & Dr. Ravindra B. Chougale, P.G.Dept. of Chemistry, KUD	NIL	1825
Sharing of laboratory facilities at PG Dept. of Physics, K.U.Dharwad	Dr. Saraswati Masti & Dr.V.Shyamkumar, P.G.Dept. of Biotechnology, KUD	NIL	1250
institutions using reasonable endeavours to carry out the research work	Dr. Saraswati Masti & Dr. Deepak Kasai, Department of Basic Sciences, JAIN, Deameed-To-Be-University, Bangalore.	NIL	1095

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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
NIL	NIL	Nill	Nill	Nill	Nill

No file uploaded.

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
MoU with Nichrome Testing Laboratory and Research Pvt.Ltd	02/01/2019	Promote academic interaction between basic science and life science Create	125

awareness about  
life science  
Orientation towards  
gender, Health and  
Development

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## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
0	24

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing

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### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
ELib	Fully	6.5	2020

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	182459	49902622	75	31305	182534	49933927
e-Books	93809	5000	Nill	Nill	93809	5000
Journals	24	22000	Nill	Nill	24	22000
e-Journals	6237	5900	Nill	Nill	6237	5900

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
00	00	00	Nill

No file uploaded.

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	148	3	11	5	0	8	38	300	0
Added	0	0	0	0	0	0	0	0	0
Total	148	3	11	5	0	8	38	300	0

##### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

300 MBPS/ GBPS

##### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NIL	Nil

#### 4.4 – Maintenance of Campus Infrastructure

##### 4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
2227000	2805925	0	2395123

##### 4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

1. PHYSICAL FACILITIES- I. POLICIES FOR MAINTENANCE OF CLASSROOM- Regular cleaning and maintenance of the classrooms is outsourced to external agencies by the university, on tender bases. Corridors in the departments and its five meter surroundings are cleaned by employees of the same agency/ agencies. Regular monitoring and maintenance of electrical connections and fixtures , including repairs/replacements, are done by the building department of the university. There is an Annual Maintenance (AMC) for the maintenance of the computers in different laboratories and offices in the college this AMC arrangement is done by the university. UTILIZATION- Time table committee will prepare the college time table in such a way that there is maximum utilization of infrastructure and classrooms. 2.ACADEMIC- I. LABORATORY- Annual maintenance of the instruments is done by the Laboratory Assistants. Stabilizers are used for instruments to regulate electricity fluctuation. Regular servicing and maintenance is carried out for the instruments. Periodical calibration of the instruments is done. Service engineers from manufacturing companies are called for the repair work, whenever required. Official procedures are maintained for the repair by calling three quotations from different firms, and based on the comparative statement, an order will be issued to the person (service engineer/ firm) who can give reasonable price and the best service. UTILIZATION- The student strength for each practical batch (for a laboratory session) is based on the subject combination, the available infrastructure in the laboratories and the university norms, with an objective to provide hands-on experience for

all the students. Practicals are conducted in morning and afternoon sessions, for maximum utilization of laboratory resources, including computers. 2. LIBRARY-Maintenance of the library and its resources is done by the staff. Annual maintenance of the books is done by fumigation to avoid insects and fungus. Dry environment is created near the book shelves through electric heaters during rainy season. Regular dusting and cleaning is done by using vacuum cleaners. Pest control is carried out so as to increase the life of valuable resources of the library. The furniture and fixtures are repaired and maintained regularly by the experts. UTILIZATION-Library is made fully automated. Computerized issue and return of books is done in order to save time. Books exhibitions are conducted in the library and the books suggested by the staff members are recommended for the purchase. Open Access is given to students for the reference books, so as to have effective referencing and exploring of new books related to the subjects. Special reading room facility and the computers are provided for access to e-content. Four computers with braille facility are made available to students with visible disability. Library is kept open from 8 AM to 8 PM. Ramp facility is provided to the students with physical disability. Social platform is used to notify about the current updates of the library. III. COMPUTERS- Maintenance and support are carried out by service personnel of firm engaged by AMC agreement made by the university. Regular up gradation of the software is done.

[http://www.kscd.ac.in/iqac1920/2019-20\\_AQAR\\_docs.zip](http://www.kscd.ac.in/iqac1920/2019-20_AQAR_docs.zip)

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	IIA, IIB, IIIA, IIIB and SC, ST Scholarships	1572	3492231
Financial Support from Other Sources			
a) National	NIL	Nil	0
b) International	NIL	Nil	0
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#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
X: Personnel Counselling: Criminology and Forensic Science	11/08/2019	12	Dept. of Criminology and Forensic Science
IX: Mentoring: Dept. of Botany (Odd Sem)	12/08/2019	10	Dept. of Botany, KSCD
VII. Remedial class: Dept. of Zoology (Odd Sem)	07/09/2019	28	Dept. of Zoology, KSCD
VII. Remedial class: Dept. of	18/09/2019	75	Dept. of Botany, KSCD



Botany (Odd Sem)			
II. Bridge Course: Dept. of Botany (Odd Sem )	17/12/2019	277	Dept. of Botany ,KSCD
I. Bridge Course: Dept. of Geography (Odd Sem )	16/06/2019	162	Dept. of Geography ,KSCD
III. Bridge Course: Dept. of BCA and B.Sc.(CS) (Odd Sem )	15/07/2019	136	Dept. of BCA and B.Sc(CS) ,KSCD
IV. Bridge Course: Dept. of Zoology (Odd Sem )	21/06/2019	414	Dept. of Zoology ,KSCD
V. Bridge Course: Dept. of Physics (Odd Sem )	01/07/2019	477	Dept. of Physics , KSCD
VI. Remedial Class: Dept. of BCA ( Odd Sem )	31/08/2019	12	Dept. of BCA and B.Sc(CS), KSCD
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2020	Career Guidance and Skill Development	Nil	113	Nil	67
<a href="#">View File</a>					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
WIPRO, INDIAN MONEY, INFOSYS,	240	167	NIL	Nil	Nil

QCONNECT,  
HRH, SUCO  
TECH, OPERA  
SPACE,  
TMIE2F

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	7	B.Sc. (CS)	Computer Science	Sri. Manju natheswar Institute of UG PG, Dharwad, Jain College of Engineering, NIE College, Mysore	M.Sc. (CS)
2019	12	BCA	Computer Applications	Dept. of Comp. Appln. KUD, Vishves hwaraiiah Tec hnological University (VTU), PES University, B'lore, Sri. Siddalingesg war BCA College, Gokak, New Horrizon College of Engineering, B'lore	MCA
2019	36	B.Sc.	Zoology	KUD, Kuvempu University, Shankarghatt a, Manipal School of Life Sciences, MAHE, Manipal, KU-PG Centre, Karwar	M.Sc.
2019	10	B.Sc.	Geography	Karnatak University, Dharwad, Mysore University	M.Sc.

2019	9	B.Sc.	Botany	Karnatak University Dharwad	M.Sc.
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	1
NET	1
SLET	1
<a href="#">View File</a>	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Karnatak University Intercollegiate Inter Zone Cricket Tournament (Men)	Interzonal	60
Karnatak University Intercollegiate First Zone Cricket Tournament (Men)	Inter-collegiate	120
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### 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Cross Country	National	1	Nil	19S10221	Pallavi G. Appinabail
2019	Chess	National	1	Nil	18S10261	Priya M. Pundikallad
2019	Basket Ball	National	1	Nil	18S10153	Krupa A. Kattishetti
2020	Sepak Takrow (M)	National	1	Nil	17S10117	Kiran G. Mundinamani
2020	Taekwondo	National	1	Nil	17S10326	Sushma V. Ballary
2019	Football	National	2	Nil	17S10117, 18S10027	Kiran G. Mundinamani, Amirsuhail Bagalkot

2020	Taekwondo	National	1	Nill	17S10326	Sushma V. Ballary
2020	Sankalp Fest, 2020	National	Nill	Nill	Nill	Nill
2019	Cross Country	National	1	Nill	19S10221	Pallavi G. Appinabail
2020	Colaossus	National	Nill	Nill	Nill	Nill
<a href="#">View File</a>						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Gymkhana - College has a gymkhana to promote the sports activities. It consists of 9 departments (excluding miscellany and reading room. Based on merit, roster and expertise in specific sports, student's secretaries are selected for each department. Secretaries will assist the Physical Instructor for selection of the team for sports/cultural events at the national/international/university level. Ant ragging cell -College has an active anti ragging cell which consists of student representatives. Senior students will coordinate with the teaching members of the committee in maintaining an healthy environment in the campus.

Alumni, Parents meets and Placements - Student representatives help in coordinating events like alumni meet, parents meet, placement festivals, internships and projects in the college. IQAC - IQAC committee consists of two student's representatives, and they help the committee, whenever required.

Miscellany and Study Circles -There is a separate student representative in both the college magazine committee and for each of the departmental study circles. They help in collecting the articles (manuscripts) from the students and assist the chairman in the selection of articles, for publication. Study circle secretaries coordinate the events in the department. Clean and Green campus - Small students groups are created and assigned projects which will lead in to the creation of clean and green environment in the campus and to make the campus plastic free.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The college has a registered alumni association, namely, Karnatak Science College Alumni Association, Dharwad (KSCAAD), established on 13th February, 2009 (Registration No. DRZ/SY/313/2008-09). The main objectives of the association are as follows: Suggestions are invited from the alumni for the up gradation of the college infrastructure, industry oriented syllabus, student friendly environment and campus beautification. These suggestions are followed up by the college and University authorities, for implementation of the same after necessary discussion, wherever possible.

5.4.2 – No. of enrolled Alumni:

228

5.4.3 – Alumni contribution during the year (in Rupees) :

54407

5.4.4 – Meetings/activities organized by Alumni Association :

NIL

## CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

**Administrative Functioning (Participative Management):** Since our college is a constituent college of Karnatak University, Dharwad, which is governed by the Hon'ble Governor, the Vice- Chancellor, Registrar, Registrar Evaluation, Finance Officer, Syndicate Members, Principal and IQAC coordinator and members are jointly responsible for the academic and administrative leadership of the college. The apex decision making body at the college level is the Governing Council, under organizational structure of Constituent College. Periodical meetings are conducted twice a year, under the chairmanship of the Vice Chancellor. The Principal meets at least twice in a month, with Heads of different departments in the college, in order to discuss important academic and administrative issues. The IQAC meets periodically to discuss the issues related to the quality policy and plans. Various committees such as, Internal Quality Assurance Cell, Admission Committee, Anti Ragging Cell, Committee for Prevention of Sexual Harassment, Students Grievances and redressal Committee, Gymkhana Managing Committee, Student Counselling Cell, Prospectus Committee, e-governance cell and Time Table Committee have been formed in the college, to help in monitoring and facilitating administrative functions, and thus make the administration open and transparent.

**Academic Functioning (Culture of collective Responsibility):** Each and every teaching staff members of the college holds an academic responsibility. The Principal empowers all the head of departments (HODs), by delegating to them the leadership to monitor academic responsibility of faculty members in the concerned department, a concrete step towards a decentralized governing system. In turn, the HODs assigns all the staff members the responsibility of conducting regular theory and practical classes, Internal examinations (both Theory and Practicals) in addition to the in charge-ship of different laboratories in the department. Each department is given the freedom to prepare its academic plan and schedule of activities at a micro-level. Time table preparation, designing and assigning of projects, conduct of workshops, planning and execution (including organization) of training programmes, special lectures, study circle activities, conduct of internal examination and evaluation. The staff is entrusted the responsibility for different tasks such as preparation of prospectus, admissions (both for college and Hostel), student's uniform, examinations, document verification form collected for scholarships, Rail/bus concessions as well as handling the university/government correspondence. The IQAC includes faculty members along with members from the society for the policy / plan formulation and its implementation. Faculty members from IQAC play an active role in the management of academic activities of the college. Students actively participate in various curricular, co-curricular and extracurricular activities.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

### 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	College has admission committees for different classes. The committee will prepare the calendar of events for admission, which is publicized online and in local newspapers. Admission

process is done under one roof. Applications from the candidates are invited online they are carefully scrutinized by admission committee members, and the eligible candidates are selected on merit cum roster basis.

Industry Interaction / Collaboration

The college arranges interaction of students with industry experts, so that they gain industry knowledge. The institution organizes hands-on training sessions for students, for specific skill sets. The college has organized placement drives. Besides that, workshops / interactions are planned and organized with students and teachers to enhance their employability skills, especially among students. Alumni who are well placed in the society provide free guidance to the students, in order to help them develop industry oriented skills.

Human Resource Management

To upgrade and enhance the standard of academic environment, permanent teaching faculties are deputed with duty leave to participate in orientation/refresher courses and short term training programmes. Research scholars and teachers are also deputed to take part in international /national conferences/seminars/workshops. Rotation of laboratory assistants between the departments (internal transfer) takes place routinely, in order to enable them to improve their skills, and develop new abilities so that they become more useful to the Institution in the long run.

Library, ICT and Physical Infrastructure / Instrumentation

Library is a growing organism. Consistent improvement in the facilities of College library as well as the department libraries has taken place. A separate budget is provided to upgrade the library , in order to meet the growing and changing requirements of students and faculty members. In order to enhance the teaching learning process, ICT facility has been extended to each department. Laboratory instruments are regularly serviced and calibrated to standards. New instruments have been added to cater to the revised syllabus. College also provides facilities and space to conduct competitive exams and National level/ State Level screening examinations like NET, SLET and JRF examinations.

<p>Research and Development</p>	<p>Strategy: In the college, there is a research committee which monitors the routine affairs of research by the faculty members, including research funding (proposals). Research proposals submitted by the staff members are scrutinized by the research committee and then, after necessary modifications as per suggestions of the members of the committee, they are forwarded to the College Development Council of the University. Financial provision has been made by the University for the staff members to participate and present their research findings in National and International conferences and workshops.</p>
<p>Examination and Evaluation</p>	<p>Strategy: Theory and practical internal examinations are conducted as per the calendar of events of the college In order to maintain transparency, the marks obtained by students are displayed on the notice board of the concerned department. Students are allowed to see their answer papers, and in case of any discrepancy rectification of the same will be done. Before conducting the semester-end examinations, a meeting of all the staff members will be convened by the Principal/ Senior Superintendent (internal) of the examination, to discuss about the smooth conduct of the examination. Question papers sent by the university are received and seating arrangement is provided in the college .Soon after the evaluation, the university will declare the results online for quicker and faster methods of accessibility and support.</p>
<p>Teaching and Learning</p>	<p>Strategy: The college management ensures a proper teaching learning environment by way of deputing the staff members for Faculty Development Programmes (FDP) to different universities and research institutions, in order to give an opportunity for the teachers to enhance their knowledge as well as update their skills. Provision for ICT teaching is done in many class rooms and laboratories. Regular feedback on the teaching - learning process is obtained from the students. An external agency is employed to analyse the feedback obtained from the students and other stake-holders. The analyzed reports are shared with the</p>

	teaching staff of the college from time to time, which helps in monitoring the teaching learning process and also helps in understanding the learner's needs and attitude/ perception
Curriculum Development	Strategy: Implementation of learning outcome based curriculum frame work of Undergraduate and Post graduate courses run by the college follows the regulations and syllabus/ scheme of examinations as directed by the Board of Studies (BOS) at the Karnatak University, Dharwad. The teachers of the college are involved in the eExisting curriculum development through workshops for ensuring continuous evaluation of syllabi and making it industry oriented. The college follows credit system for PG courses, wherein there is a flexibility to design various academic activities and choice based extra credit, skill based courses.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Administration	The development of physical infrastructure in the college is done through e-tendering by the university, following established regulations in this regard. Submission of projects under various schemes is also done online.
Administration	The college makes continuous efforts to go paperless in all its administrative and official works
Finance and Accounts	Well-equipped computerized method is followed in order to keep track and record of all the finances of the college. Advanced software is used to scan documents.
Student Admission and Support	The institution provides a constant support and assistance to the student community, wherein online tools are used to keep the officers and faculty in touch with the students, in order to inform them about the various events/ circulars/ notices, from time to time. Teaching faculty members have created Google/WhatsApp groups (of students) to post updates and to provide new links and resources related to academic growth as well as necessary and/ urgent official documents/ notices.
Examination	The college conducts internal and



Semester end examinations smoothly. Notices related to the examinations are posted and updated on priority bases. Thus the Chief Examination Officer and the committee in college ensures transparency and quicker method of conducting exams. Besides that marks of the internal exams and semester end exams are also sent to the University online.

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2020	Dr. Nirupama J M	Trombay symposium radiation photo chemistry	TSR-P2020	7500
2020	Dr. L T Nayak	International Conference Held at Kolakatta, India	Amity University, Kolkatta	6060
2020	Dr. G. N. Kummur	International Conference Held at Kolakatta, India	Amity University, Kolkatta	6060
2019	Dr. Geeta Chavan	Life Member	Indian Association of physics Teachers	1500
2019	Dr. Blaise Lobo	International Conference on Physics of Materials and Nanotechnology	Mangalore University, Mangalore	11020

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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
Nil	NIL	NIL	Nil	Nil	Nil	Nil

No file uploaded.

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Refresher courses on Materials Preparation Measurement of properties	1	05/03/2019	20/03/2019	21
Refresh course in computer science	1	15/01/2020	28/01/2020	14
UGC Sponsored Refresher Course in Computer Science	2	11/03/2019	31/03/2019	21
Degree college training program in physics	1	22/11/2019	12/12/2020	21
Shor term Course on E-Content Development	1	28/05/2020	03/06/2020	07
Short term Course on "Disaster Management"	1	20/01/2020	26/01/2020	07
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
41	86	14	39

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Karnatak University Employees Credit Cooperative Society, KUD	Karnatak University Employees Credit Cooperative Society, KUD	Karnatak University Employees Credit Cooperative Society, KUD

**6.4 – Financial Management and Resource Mobilization**

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

College maintains the finance and accounts systematically and regularly. Since the college is a constituent college of Karnatak University Dharwad, Government audit mechanism is followed, which performs timely checks on the expenditure made through college funds as well as the finance department of Karnatak University, Dharwad. A team of Government auditors visit the college annually

and audit the status of expenditure under each budget head of the college office and individual departments. The proper utilization of funds allotted for the research schemes by different funding agencies are also checked by auditors or Chartered Accountants. After the submission of the audit report by the auditors, objections if any will be immediately addressed during the reconciliation by the auditors from Accountant General, Government of Karnataka.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Karnatak University, Dharwad	2395123	Maintenance of all the departments, purchase of equipments/chemicals/cons umables/teaching aids. Maintenance of departmental gardens and museums.
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6.4.3 – Total corpus fund generated

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## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	External Experts from Karnatak University, Dharwad	Yes	IQAC
Administrative	Yes	External Experts from Karnatak University, Dharwad	Yes	Registrar, Karnatak University, Dharwad

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

NIL
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6.5.3 – Development programmes for support staff (at least three)

NIL
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6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Implementation of Choice Based Credit System (CBCS) for all the 8 major subjects at B.Sc., BCA and B.Sc. (CS) level and 6 special subjects.
2. Submission of research proposals from all the 8 departments to karnatak University, Dharwad for the award of seed money worth of Rs. 100000 each.
3. Submission of proposals from all the 8 departments for establishment of MoU (Memorandum of understanding) with the local bodies/institutions for the exchange programmes.
4. The college website has been renewed and has a new face. An effort has been made to make each content rich, so that the entire

information is made available on the website. 5. Few faculty training programmes have also been organized in upcoming areas like PYTHON programming, Research Facility Training Programme for Research Scholar, Communication and Interview Skills. 6. Feedback analysis on teaching learning, curriculum, infrastructure etc. has been collected and analysed. It has been seen that there is a need for conduct of Bridge courses for the students in the beginning of the semester. 7. Based on the performance in the first internal examination, Slow and advanced learning students are identified, remedial classes are conducted for the slow learners. 8. Green auditing and carbon sequestering of the campus is done. 9. Students are motivated to take part in sports, extracurricular activities etc. 10. Students are motivated to involve in small research projects. 11. Regular Placement Drives are conducted to create employability to our students.

#### 6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
c) ISO certification	No
d) NBA or any other quality audit	No

#### 6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Research Facility Training Programme for Research Scholars	21/11/2019	21/11/2019	22/11/2019	15
2019	Celebrated "International Year of Periodic Table: 2019"	29/08/2019	29/08/2019	29/08/2019	158
2019	Ten Days Workshop on PYTHON PROGRAMMING	03/12/2019	03/12/2019	13/12/2019	32
2020	Communication and Interview Skills	29/02/2020	29/02/2020	01/03/2020	96
2020	One-Day Workshop on "Embedded system development using 8051 controller"	01/02/2020	01/02/2020	01/02/2020	40

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### CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

#### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
NIL	Nil	Nil	Nil	Nil

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

1. Environmental Consciousness: Staff and the students of our college are contended to maintain plastic free and oxygen rich campus by way of collecting and dumping garbage at specific locations earmarked and Plantation drives are regularly conducted to maintain greenery. Vehicle parking facility is provided at 3 different locations in the campus to avoid vehicle movement in the campus to reduce air pollution. 2. Tree adoption drive: First year students are divided in to small groups and are advised to adopt some plants/trees. They take oath to maintain their adopted plant/tree for three years during their stay in the campus. Later they will transfer the responsibility of maintaining the plants to their juniors. This act of students will help in increasing the greenery and sustainability. 3. Green Energy : Solar Lamps: College has 26 number of solar power generation units in the campus, at different locations - (Basavavana - 06, BCA department - 04, Library - 08, Physics department - 04 and college main gate - 04).

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	5
Provision for lift	No	Nil
Ramp/Rails	Yes	5
Braille Software/facilities	Yes	2
Rest Rooms	Yes	8
Scribes for examination	No	Nil
Special skill development for differently abled students	No	Nil
Any other similar facility	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	1	1	03/03/2020	1	Awareness on Solid	Impact of solid waste and	58

					Waste Management Plastic Free Campus	plastic on human health and maintenance of personal hygiene	
2020	1	1	05/03/2020	1	Swachh Bharath Abhiyan	Disadvantages of open drainage depiction system	62
2020	1	1	06/03/2020	1	Personality Development	Development of Good Attitudes, Stress management, Communication attitudes leads to healthy and successful life	63
2020	1	1	07/03/2020	1	Roll of NSS in Social Reforms	Roll of NSS volunteers in social reformation	59
2019	1	1	02/01/2019	1	MoU	Capacity Building	250
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Teachers dairy and prospectus	19/06/2019	The main motto of the institution is to develop modern youth as responsible citizens by including human values along with scientific insight, for which various efforts have been made. The institution follows the code of conduct of Karnatak University, Dharwad. Rules for code of conduct for both teachers and students are mentioned in the teachers dairy as

well as in the prospectus. Teacher's dairies are maintained by the individual teachers and are duly signed by HOD and Principal at the end of each semester. The code of conduct for the students is printed in the college prospectus and made available to the students at the time of admission.

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
College Founder's day	09/08/2019	19/08/2019	84
Sir. Siddappa Kampli birth Anniversary	11/09/2019	11/09/2019	50
Mahatma Gandhi Jayanti	02/10/2019	02/10/2019	65
Kanaka Jayanti	21/11/2019	21/11/2019	35
Maharishi Valmiki Jayanti	24/10/2019	24/10/2019	22
Swami Vivekananda Jayanti	12/01/2019	12/01/2019	42
Dr. B. R. Ambedkar Jayanti	14/04/2020	14/04/2020	65
Basava Jayanthi	14/05/2020	14/05/2020	27
Gurunanak Jayanthi	19/11/2019	19/11/2019	12

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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

**Harnessed solar energy:** To meet out the electrical power requirement of the college campus 26 number of solar lamps have been installed in the common usage areas, especially near the Library, Health center, Play grounds and on the sides of the roads within the campus. Plantation Drive. The college campus has rich greenery, with many important and rare plants The campus vegetation is maintained by the gardeners (workers) who are appointed the university as well as the students. To enrich the garden, a regular special drive for plantation of samplings is organized. Every year, students are encouraged to plant saplings and they take up the responsibility of maintain these plants till they complete their graduation. The department of Botany is maintaining a separate Botanical Garden, which consists of a good number of rare plants. Maintenance of Medicinal plant plot: The college maintains a medicinal plant garden in the department of Botany. It consists of good number of medicinal plants, which can cure a variety of human diseases. All the plants have been named and their medicinal properties have been mentioned. The medicinal garden is open to the public, and visitors from the nearby schools and college students frequently visit the garden. Conservation of Rain Water: Rain water harvesting facility is

made in all the departments and the harvested water is made to sink in the tanks built for the same purpose. Generation of organic manure: Organic composting is practiced in the campus. Students are advised to put all biological waste and the remains of the food in the pits made for organic manuring. Food waste from the canteen is also dumped in these pits, and students are trained to prepare the organic compost. Prepared compost is used in the Botanical garden. Principles of 3 Rs - Reduce, Reuse and Recycle: One time usable plastic is banned in the campus. Mineral water bottles are discouraged and the reusable plastic or metallic water bottles are encouraged. The College practices the minimum use of papers, reuse of papers and recycling of papers. E-Waste: As per the directions of the Karnatak University, Dharwad, E-waste is collected from both teachers and students with prior notification and is deposited at a particular place later, the university assigns a person to collect this e-waste, which is sent for recycling. Plastic free campus: Students are strictly discouraged from using plastic bags and bottles in the campus. However, dustbins are installed at various corners of the campus and students are advised to dump the plastic waste only in the dustbins.

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

1. Students were motivated and guided to collect the used tender coconut shells, fill them with Farm Yard Manure, raise seedlings in them. Once the seedlings are grown up, they will be distributed to the school children and requested them to raise the plants and are convinced about the Importance of the plants in once life. 2. Best out of waste competition conducted by college AKKA ladies association. 2. Free dental check up camp in association with Rotary Club of Seven Hills and SDM Dental College, Dharwad for all the students and staff of the college. 3. Mehndi and Rangoli competition for girl students was. 3. Imparting knowledge on Zoology to the school/college/university students and public through the zoology museum. 4. Construction of fish aquaria.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

[http://www.kscd.ac.in/igac1920/2019-20\\_AOAR\\_docs.zip](http://www.kscd.ac.in/igac1920/2019-20_AOAR_docs.zip)

## 7.3 – Institutional Distinctiveness

### 7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Vision of the Institution: Just, Equitable, Tranquil, Harmonious Social Order with Scientific Temperament. Mission: • To enhance ability of students, in order to make them special and thereby creating experiences so surprisingly positive and memorable. • Providing a variety of options for delivering dazzling science education to our students. • To offer invigorating experiences in a way that build confidence and creates a sustainable, yet positive defining moments. • To inspire students to believe in oneself, and do what they say they will. • To help students network with people who have common needs and an interest to do something extra. • Provide infrastructure to identify and generate talented human resource pool, which will be beneficial to our society at large. • To transform students into sharp thinkers, writers, speakers and leaders in the professions of their choice. • To install scientific temperament in the younger generation. This educational institution is one of the premier and pioneer institutions in the North Karnataka region, providing education and other services at very low cost (fees) to students from diverse backgrounds, with different orientation and capability. We have a demographic diversity as majority of the students are hailing from different rural and socio-economic



backgrounds, in particular, from villages and towns in the entire North Karnataka region and neighbouring states in general. Karnatak Science college has 'state of the art' instrumentation facilities in the laboratories, which are accessible to all students. With this 'uniqueness', we are inculcating the value of 'togetherness' among all the members of the institution by giving space to each and every stakeholder to participate, explore, enhance and attain their full potential, thus ultimately making society a more equitable space. To achieve the vision of the institution, every member is actively participating to the best of their individual ability in different student friendly activities. • Counselling cell of the institution is active. • Mentoring system is practicing for all the diverse student groups. • Convenient and friendly cultural platform is provided for celebrating cultural uniqueness. • Gymkhana with facilities for indoor games and gymnasium is provided to all the student groups fulfilling their sport's needs. • Student centric teaching is done by making the class rooms more vibrant and student friendly. This is done by promoting and encouraging dialogue and participation among the students. • Special support for the differently abled students exist. • Off line and online feedback system allows the students to give their individual opinion freely about syllabus, teaching techniques and class room environment, in order to improve the teaching/learning experiences. • Inclusive Classroom (Group activities, small projects, Group Discussion and exploring new media for classroom teaching). • Remedial classes. • Advance learner classes • Bridge course • Value added education through National Yoga Day, Human Right Day, Awareness Campaigns and Community engagements. • Skill Development Programme for the students. • Strong Parent and Alumni Association.

Provide the weblink of the institution

[http://www.kscd.ac.in/igac1920/2019-20\\_AOAR\\_docs.zip](http://www.kscd.ac.in/igac1920/2019-20_AOAR_docs.zip)

### 8.Future Plans of Actions for Next Academic Year

• Induction programme for first year students and Parents meeting - Newly admitted students will be introduced to all the departments and the staff members, so that the students become well acquainted with the campus facilities available. • Establishment of e-Governance for the quality initiatives of academic and administrative concerns - To keep a continuous record of student progression to higher education/employment and to promote paper less office, institutional email IDs will be provided to all the faculty members for the internal communication • Starting of Post Graduate department in Botany - There is a demand from the students for Post Graduate studies in Botany, in view of this, proposal will be sent to Karnatak University, Dharwad to start Post Graduate course in the college. • Starting skill based certificate/vocational programmes - To meet out the goals of NEP and to create employability in students, need based skill development and vocational courses will be started • Promoting teachers for e-content development - To promote online teaching, faculty members will be encouraged to develop e-content in their respective subjects and upload the same to website/youtube. • Strengthening Academic-Industry interface - Linkages will be established with the local industries to create employability. • Creating eco-friendly, green and clean environment in the campus - A separate parking facility will be provided for teachers and students at different locations in the campus so stop the vehicular movement inside the campus. Plantations drives will be initiated at regular intervals and the students are motivated to monitor them. Dust bins will be installed at different places in the campus to promote students dump the waste. • Conducting student focused academic and skill development activities • Promoting students for conducting small projects and publishing their findings in academic journals • Implementation of NEP (National Education Policy 2020) • Establishment of MoU in all the departments with different professional/local bodies, NGO's and Govt. Organizations. • Promoting Vaccination drive for Covid-19 - Students and staff

members are encouraged to take vaccine in our health centre. • Society oriented extension programmes will be conducted.