

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



ACADEMIC ADMINISTRATIVE AUDIT (AAA)

SELF STUDY REPORT

NAME OF THE DEPARTMENT: COMPUTER SCIENCE

PERIOD: 2019 JUNE-2020 DEC

CATEGORY: SELF FINANCING

The Departments shall enter the necessary data in this booklet itself. For positive responses the details asked need be given only in a very brief manner. All claims must be supported by documentary evidence.

DEPARTMENT GRADING

The department is requested to submit a Self Study Report (SSR) of its performance during the academic year 2019 – 20 in the following format, for the purpose of department grading. The grading aims to encourage self-evaluation, accountability, research, and innovation in teaching and learning. It will also help to create healthy competition in curricular and extracurricular activities among departments. The grading will be performed based on the following six criteria.

Criterion I – Teaching-learning Process

Criterion II – Research

Criterion III – Consultancy and extension

Criterion IV – Extracurricular activities

Criterion V – Student Support and Progression

Criterion VI – Supportive activities

SELF STUDY REPORT

CRITERION I – TEACHING-LEARNING PROCESS

- a. Does the department Plan and organize the teaching-learning and evaluation schedules?

Yes

No

(10 MARKS)

(If yes; provide documentary evidence-Submit filled up Teachers Diary (2019-20)of each teacher or any other evidence)

- b. Which teaching-learning method/s is/are used by teachers?

(Put ✓ marks in appropriate boxes. Details must be given)

- | | | |
|-------------------------------|-------------------------------------|-----------------------------|
| 1. Lecture | <input checked="" type="checkbox"/> | |
| 2. Interactive method | <input checked="" type="checkbox"/> | |
| 3. Project-based learning | <input checked="" type="checkbox"/> | |
| 4. Computer-assisted learning | <input checked="" type="checkbox"/> | |
| 5. Experiential learning | <input checked="" type="checkbox"/> | |
| 6. Seminars | <input checked="" type="checkbox"/> | |
| 7. Hybrid learning | <input checked="" type="checkbox"/> | (3 marks each max 15MARKS) |

- c. Does the department use any modern teaching aids and tools like computers, audio-visuals, MOODLE, CAL (Computer Aided Learning), internet and other information/materials, which ensure that students have effective learning experience?

Yes

No

3marks each

max

15

If yes, give details.

<https://docs.google.com/document/d/1tcwI8n-HoCzKdptMqIstTdQ2JvN7KWv-7Wf6JGjEHeQ/edit?usp=sharing>

- d. Department conducted any exams in MOODLE-Learning Management system?

Yes

No

3marks each

max

15

If yes, give details of exams.

<https://docs.google.com/spreadsheets/d/1vQaxvM16UPDpsPbSBaVL9RiwZHjKq2Is7E22zZ8CbsQ/edit?usp=sharing>

- e. Does the department conduct any skill-developing programs (short-term add-on courses, soft-skill development programs etc.) for students? 05 for each – max 10

Yes No

If yes, give details

<https://docs.google.com/spreadsheets/d/1OUU03OCTXG4JbQhyfGdLtSir1CfLAHWKKNExDve35E/edit?usp=sharing>

- f. Does the department apply for any new course, by designing curricula for it, during the current year?

Yes No 5 each max 15

If yes, give details

- g. How many teachers attended seminar/ workshop/ conference/ refresher courses etc. during the period (Use separate sheet if necessary) > 90% =10, >50=5, <50 =0 max 10

Sl. No	Name of faculty		Title of the seminar/ workshop/ conference etc.	Duration		Whether international/ national/ state/regional	Organizing agency
				From	To		

<https://docs.google.com/spreadsheets/d/1mq09jazLRXXvTUN5cfPXb4G6Xs6BGK0ND3uxrALqS2A/edit?usp=sharing>

- h. Give details of faculty members, if any, who are selected as resource persons for seminar/workshop/conference/refresher courses etc. during this period (Use separate sheet if

necessary)

2 for each – max 10

Sl. No	Name of faculty	Title of the seminar/ workshop/ conference etc.	Duration		Whether international/ national/ state/regional	Organizing agency
			From	To		

i. Does the department introduce any innovations in teaching/ learning/ evaluation during the current year? (like online tests, video lectures from out station resource persons)

Yes No

10 for each – max 20

If yes, give details

E- Contents

<https://docs.google.com/document/d/1tcwl8n-HoCzKdptMqIstTdQ2JvN7KWv-7Wf6JGjEHeQ/edit?usp=sharing>

Online Tests

<https://docs.google.com/spreadsheets/d/1vQaxvM16UPDpsPbSBaVL9RiwZHjKq2ls7E22zZ8CbsQ/edit?usp=sharing>

j. Does the department provide remedial teaching?

15

Yes No

If yes, furnish the following (use separate sheet if needed); provide evidence for student attendance

Sl. No.	Name of the teacher	Class for which remedial teaching is arranged	No of students benefited

https://docs.google.com/spreadsheets/d/1PSagOpFum4uKhdaYa_pyiuvyE1p9fPBk5BJYn6x--mQ/edit?usp=sharing

- k. Does the department provide coaching for entrance tests/eligibility tests (JAM, CSIR/UGC, University entrance tests etc..)? 15

Yes No

If yes, furnish the following (use separate sheet if needed); provide evidence for student attendance

Sl. No.	Name of the teacher	Class for which remedial teaching is arranged	No of students benefited
1	Department of Computer Science	UGC NET Coaching	1

<https://docs.google.com/spreadsheets/d/1fWBCI-DAGe9wfNcYkDz2P1XgbKAWz6qXRmwTbmUhv1w/edit?usp=sharing>

CRITERION II – RESEARCH

- a. Give details of the publication by faculty, if any during the period . 2 for each – max 10

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Sl. No	Name of faculty	Title of the paper	Title of the Journal and year of publishing	Citation index and impact factor of the journal, if available
1	Priyanga K.K	Traffic Density Control Using Deep Learning	International Journal of Innovative Research in Computer and Communication Engineering, OCT 2020	e-ISSN:2320-9801 Impact Factor - 7.488
2	Priyanga K.K	Neural Image Caption Generation using Deep Learning	International Journal of Innovative Research in Computer and Communication Engineering, OCT 2020	e-ISSN:2320-9801 Impact Factor - 7.488
3	Sini Thomas	Phishing Detection and Blocking system	International Journal of Innovative Research in Computer and Communication Engineering, OCT 2020	e-ISSN:2320-9801 Impact Factor - 7.488
4	Viji Viswanathan	Real Time Alert Message for railways using Deep learning	International Journal of Innovative Research in Computer and Communication Engineering, OCT 2020	e-ISSN:2320-9801 Impact Factor - 7.488
5	Nisha Raveendran	Autonomous Car for Smart Transportation for using Deep Learning	International Journal of Innovative Research in Computer and Communication Engineering, OCT 2020	e-ISSN:2320-9801 Impact Factor - 7.488

6	Nisha Raveendran	Students Performance analysis using Market Basket Analysis and Data Mining	International Journal of Innovative Research in Computer and Communication Engineering, OCT 2020	e-ISSN:2320-9801 Impact Factor - 7.488
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b. Is the department recognized as a research department?

Yes

No

05

If yes give the number of research scholars joined this year.

c. Did the department produce any Ph. D during the last two years? (*For research departments only*)

Yes

No

10

If yes furnish the following

Sl. No	Name of the Research scholar	Name of the guide	Title of the thesis	Year of awarding

d. Does the department have running Major research projects?

Yes

No

10 for each

max 20

If yes furnish the following.

Sl. No	Name of the principal investigator	Duration		Title of the project	Funding agency
		from	to		

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e. Does the department have running Minor research projects?

Yes

No

5 for each max 15

If yes furnish the following.

Sl. No	Name of the principal investigator	Duration		Title of the project	Funding agency
		from	to		

a. Did the department submit any new proposal for project, seminar etc. to funding agencies during the academic year?

Yes

No

5 for each max 10

If yes give the number proposals submitted and the name of agencies.

b. Did the department conduct seminar/workshop/conference etc. during the academic year?

Yes

No

5 for each max 15

If yes furnish the following

Sl. No	Title of the seminar/ workshop/ conference etc.	Duration		Whether international/ national/ state/regional	Funding agency
		From	To		

1	Recent Trends in Computational Intelligence and Applications on 7 th March 2020	07-03-2020	07-03-2020	National	Christ College
2	Webinar on Importance of Data Science and Analytics for AI and Robotics.	12-06-2020	12-06-2020	state	Christ College
3	Workshop on Data Visualization with Tableau	27-07-2019	27-07-2019	state	CSCTA and Christ College
4	Webinar on Build your career in Android Development	27-11-2020	27-11-2020	state	Christ College
5	Webinar on What is the reality behind the data Analytics career	04-09-2020	04-09-2020	state	Christ College
6	Webinar on understanding Data Analytics with Real life cases	18-12-2020	18-12-2020	state	Christ College
7	Webinar on Why Excel still matters in the workplace	17-09-2020	17-09-2020	state	Christ College
8	Webinar on Specialize Microsoft Excel to kick start Career	19-12-2020	19-12-2020	state	

https://drive.google.com/drive/folders/1Nx_Jg57fdKBN97rVih_okZ5Lhe-J4KJa?usp=sharing

- c. Is there any publication from faculty like books, articles, conference/seminar proceedings, course materials (for distance education), software packages or other learning materials, any other (specify) ?

Yes

No



5 for each max 15

If yes give details.

CRITERION III – CONSULTANCY AND EXTENSION

- a. Does the department have any MoU/ MoC (memorandum of contract)/ mutually beneficial agreements signed with industry /agency, or other academic institutions?

Yes

No

5 for each max 15

If yes give details.

- a. Does the department have collaborative activities (on-the-job training, student placement, internship, publication, curriculum development, research, consultancy, etc.) with other organizations (service sector, agricultural sector, local bodies/community, administrative agencies, state/national/international organizations)?

Yes

No

05 for each max 10

If yes give details

<https://docs.google.com/spreadsheets/d/1pYcVlqVTfMDr599UmrO0mQEjJSu9nkjLKNTvB--MOg/edit?usp=sharing>

- b. Does the department conduct/coordinate any kind of extension activities which are integrated with the academic curricula, contributive to community development etc.?

Yes

No

5 for each max 10

If yes give details.

- c. Does the department have partnership with University/Research institutions/Industries/ NGOs etc. for extension activities?

5 + 5

Yes

No

max 10

If yes give details

CRITERION IV – EXTRACURRICULAR ACTIVITIES

- a. Mention achievements of students , if any, of the students under the department (D- zone, Quiz competitions etc..) outside the college

05 for each

max 15

Tech fest

<https://docs.google.com/spreadsheets/d/1C0hvMVJ8g0nWcB3qe1clOAc-Xx0viTHQXKR-y0VUwik/edit?usp=sharing>

Certifications

<https://docs.google.com/spreadsheets/d/17RZTf8I3QTs8Br3dg5pLBNFaU8LvYxse1WSQjKQq00/edit?usp=sharing>

- b. Mention the association activities, if any, during the academic year other than inauguration and sent off

5 each max 10

Sl.No	Name of the Event	Date
1	Recent Trends in Computational Intelligence and Applications on 7th March 2020	07-03-2020
2	Webinar on Importance of Data Science and Analytics for AI and Robotics.	12-06-2020
3	Workshop on Data Visualization with Tableau	27-07-2019
4	Webinar on Build your career in Android Development	27-11-2020
5	Webinar on What is the reality behind the data Analytics career	04-09-2020
6	Webinar on understanding Data Analytics with Real life cases	18-12-2020
7	Webinar on Why Excel still matters in the workplace	17-09-2020
8	Webinar on Specialize Microsoft Excel to kick start Career	19-12-2020
9	Zephyrus 1.9(Techfest)	27 september 2020
10	Zephyrus 20.20	December 31 2020

<https://drive.google.com/drive/folders/1PPB1Pi6bm4cdQn9DpUal6X8xUOf5so94?usp=sharing>

- c. Mention performance of students in sports activities during the academic year (Athletics, Games etc in Intercollegiate/University competitions)

2 marks for each max 10

<https://docs.google.com/spreadsheets/d/1NhkbpnkoiFizQAODOeIisNVk6NhFyaDZYjcOvDT5LnA/edit?usp=sharing>

d. Any other relevant information the department wishes to add.

10 marks

CRITERION V – STUDENT SUPPORT AND PROGRESSION

a. Furnish the pass percentage for degree main 2019 – 20 batch (pass out) and PG 2018 – 20 batch.
max 60

% pass

Postgraduate course :100%

Degree (Main) - B.Sc Computer Science : 35%

BCA : 65%

Marks	>90%	89-80%	79-70%	69-55%
Number of students				
UG- Bsc Computer Science	NIL	1	NIL	11
BCA	NIL	1	7	15
Number of students				
PG Msc Computer Science	1	1	3	

Language & Complementary Course (Batch-wise)

Batch	Number of students with grade			
	>90%	89-80%	79-70%	69-55%

CS(Language)	Nil	1	4	7
BCA(Language))	1	6	12	4
CS(Complementary)	1	5	3	2
BCA(Complementary)	1	3	10	9

Pass > 90 % = 20 marks, > 80 % = 10 marks, <80% = 0 marks.

For UG: Each >90% 2 marks each, 1 for 89-80% (Max 50)

For PG: Each >90% 3 marks each, 2 for 89-80% (Max 50)

For Language/Complementary for each students > 90% 2 marks, 1 for 89-80%, 0.5 for 79-70% (Max 20)

- b. Mention about CSIR-UGC-NET, if any, obtained for the 2018 – 20 batches. (provide documentary evidence)

Avya Jose (Msc Computer Science)

5 for each

max 20

<https://docs.google.com/spreadsheets/d/1fWBCI-DAGe9wfNcYkDz2P1XgbKAWz6qXRmwTbmUhv1w/edit?usp=sharing>

- c. No of students who got admission in Top universities/institutions
(List of institutions- IITs, NITs, JNU, Hyderabad University, EFLUs, CUSAT, IISC, Pondicherry University, IISERs)

5 for each

(Max 20)

Should submit list of students with register number

HIGHER STUDIES						
Degree	Register Number	Name	COLLEGE	UNIVERSITY	YEAR OF ADMISSION	COURSE
BCA	CCARBCA003	Sharon George	University of hertfordshire	University of hertfordshire	2021	Msc Cyber Security
BCA	CCARBCA022	ANGEL WILSON	CUSAT college, Thrikakaraa	Cochin University	2020	Master of Computer Application

BCA	CCARBCA026	HARIKRISHNA SHENIL	University of Hertfordshire	University of Hertfordshire	2021	MSc cybersecurity
BCA	CCARBCA001	ALISHA JOY	Lambton College	Ontario	2021	Computer software and database development
BCA	CCARBCA006	Cathrine Tony	University of Hertfordshire ,UK	University of Hertfordshire,UK	2021	MSc Cyber Security
BCA	CCARBCA020	VINEESHA N B	Federal Institute of Science And Technology Angamaly	KTU	2020	MCA
BCA	CCARBCA010	JESON LONAPPPAN	Technical University of Berlin	Technical university of berlin	2021	Msc. Computer Science
BSc Computer Science	CCARSCS030	LENTISHA SHANIL	Christ college	Calicut University	2020	Msc computer science
BSc Computer Science	CCARSCS037	SRUTHY NR	De paul institute of science and technology Angamaly	MG university	2020	MCA
BSc Computer Science	CCARSCS029	Kavya Girijan	TU Clausthal, zellerfeld, Germany	Public university	2021	Msc Computer science
BSc Computer Science	CCARSCS010	JEENA THOMAS	Christ college irinjalakuda	Calicut university	2020	MSc computer science

- d. Mention the efforts made by the department to minimize the dropout rate and facilitate the students to complete the course.

Remedial class

(Max 5)

https://docs.google.com/spreadsheets/d/1PSagOpFum4uKhdaYa_pyiuvyE1p9fPBk5BJYn6x--mQ/edit?usp=sharing

- e. Give the percentage of the students progressed to higher studies. Give details for last year. If records are kept >70%- 05 marks, 69-60%-3 marks, 59-50%- 2marks (Max 5)

Submit the list of students, admitted course, college and university

HIGHER STUDIES	
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Degree	Register Number	Name	COLLEGE	UNIVERSITY	YEAR OF ADMISSION	COURSE
BCA	CCARBCA003	Sharon George	University of hertfordshire	University of hertfordshire	2021	Msc Cyber Security
BCA	CCARBCA022	ANGEL WILSON	CUSAT college, Thrikakaraa	Cochin University	2020	Master of Computer Application
BCA	CCARBCA026	HARIKRISHNA SHENIL	University of Hertfordshire	University of Hertfordshire	2021	MSc cybersecurity
BCA	CCARBCA001	ALISHA JOY	Lambton College	Ontario	2021	Computer software and database development
BCA	CCARBCA006	Cathrine Tony	University of Hertfordshire ,UK	University of Hertfordshire,UK	2021	MSc Cyber Security
BCA	CCARBCA020	VINEESHA N B	Federal Institute of Science And Technology Angamaly	KTU	2020	MCA
BCA	CCARBCA010	JESON LONAPPPAN	Technical University of Berlin	Technical university of berlin	2021	Msc. Computer Science
BSc Computer Science	CCARSCS030	LENTISHA SHANIL	Christ college	Calicut University	2020	Msc computer science
BSc Computer Science	CCARSCS037	SRUTHY NR	De paul institute of science and technology Angamaly	MG university	2020	MCA
BSc Computer Science	CCARSCS029	Kavya Girijan	TU Clausthal, zellerfeld, Germany	Public university	2021	Msc Computer science
BSc Computer Science	CCARSCS010	JEENA THOMAS	Christ college irinjalakuda	Calicut university	2020	MSc computer science

- f. Does the department provide any support for students for appearing and qualifying in various competitive examinations? (UGC-CSIR-NET, JAM, SLET, CAT, TOFEL, GMAT, GRE etc.); If yes provide evidence

(5 for each) (Max 10)

Yes

No

Sl. No.	Name of the teacher	Class for which remedial teaching is arranged	No of students benefited
1	Department of Computer Science	UGC NET Coaching	1

g. Does the department provide placement and counseling services for students

Yes No Records to be kept 10

If yes give the number of students benefited

h. Does the department encourage and develop entrepreneurial skills among students

Yes No 10

If yes give details

i. Does the department have a mechanism to seek and use data and feedback from its graduates and from employers, to improve the growth and development of the institution?

Yes No 5 marks each max 10

If yes give details

<https://docs.google.com/spreadsheets/d/1jvMkuad7OvELTBQZVNlybk1-t-4ghpqufxxH5umw2Pw/edit?usp=sharing>

CRITERION VI – SUPPORTIVE ACTIVITIES

a. Members of the department involved in the administrative/club/committee activities of the college in 2019-20 academic year?

2 mark for each (Max 10)

Sl. No.	Name	Activity to which associated

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<https://docs.google.com/spreadsheets/d/1BhJCAI0wEt8OOAxxlW20nCifEZYJZwUB5Cnly2CY0nU/edit?usp=sharing>

- b. Describe the measures taken for maintaining the cleanliness of staff room, classrooms, labs, museums etc.

Details to be furnished (Max 10)

- c. Does the department maintain proper documentation of data on Internal marksheets /Question papers/ Stock register (Details to be furnished)

Yes

No

(Max 10)

<https://drive.google.com/drive/folders/1k1VQIKYFaytzW1uojOVfYoIEcaDkqAx?usp=sharing>

- d. Mention the measures if any, taken by the department for personality development of students.

(Max 05)

Date:06-01-2021

Signature:

Head of the department:

Viji Viswanathan