



RAMAKRISHNA MISSION
VIVEKANANDA CENTENARY COLLEGE
RAHARA, KOLKATA- 700 118

**The Annual Quality Assurance
Report (AQAR) of the IQAC**

(2017-18)

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The Annual Quality Assurance Report (AQAR) of the IQAC

Part – A

AQAR for the year (*for example 2013-14*)

July 1, 2017 to June 30, 2018

1. Details of the Institution

1.1 Name of the Institution

RAMAKRISHNA MISSION
VIVEKANANDA CENTENARY COLLEGE

1.2 Address Line 1

P.O. RAHARA

Address Line 2

City/Town

KOLKATA

State

WEST BENGAL

Pin Code

700 118

Institution e-mail address

rkmvcollege@rkmvccrahara.org

Contact Nos.

033- 2568 2049

Name of the Head of the Institution:

SWAMI KAMALASTHANANDA

Tel. No. with STD Code:

033-2568 2049

Mobile:

09432516982

Name of the IQAC Co-ordinator:

DR. PRADYOT KUMAR MEDDA

Mobile:

09831943122

IQAC e-mail address:

rkmvcollege@rkmvccrahara.org

1.3 NAAC Track ID (For ex. MHCOCN 18879)

WBCOCN20188

OR

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no. is available in the right corner- bottom
of your institution's Accreditation Certificate)

EC(SC)/04/A&A/81 dated 10-12-2014

1.5 Website address:

www.rkmvccrahara.org

Web-link of the AQAR:

http://rkmvccrahara.org/naaciqac.aspx

For ex. http://www.ladykeanecollege.edu.in/AQAR2012-13.doc

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.14	2014	2019
2	2 nd Cycle	NA	NA	NA	NA
3	3 rd Cycle	NA	NA	NA	NA
4	4 th Cycle	NA	NA	NA	NA

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

30.05.2014

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

i. AQAR (2014-15) _____ (04/09/2015)

ii. AQAR(2015-16) _____ (23/08/2016)

iii. AQAR _____ (22/09/2017)

iv. AQAR _____ (DD/MM/YYYY)

1.9 Institutional Status

University State Central Deemed Private

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women

Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

Grant-in-aid + Self Financing Totally Self-financing

1.10 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.11 Name of the Affiliating University (for the Colleges)

WEST BENGAL STATE UNIVERSITY,
BARASAT, WEST BENGAL

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence

UGC-CPE

DBT Star Scheme	<input type="text"/>	UGC-CE	<input type="text"/>
UGC-Special Assistance Programme	<input type="text"/>	DST-FIST	<input type="text" value="√"/>
UGC-Innovative PG programmes	<input type="text"/>	Any other (Specify):	
UGC-COP Programmes	<input type="text" value="√"/>	<div style="border: 1px solid black; border-radius: 15px; padding: 10px; color: blue; font-size: small;"> WBSU –conferred the status of a Research Centre to the Institution by the name 'Swami Vivekananda Research Centre for Multidisciplinary Research in Basic Sciences & Social Sciences' </div>	

2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="08"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="02"/>
2.3 No. of students	<input type="text" value="0"/>
2.4 No. of Management representatives	<input type="text" value="02"/>
2.5 No. of Alumni	<input type="text" value="01"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="01"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="01"/>
2.8 No. of other External Experts	<input type="text" value="03"/>
2.9 Total No. of members	<input type="text" value="18"/>
2.10 No. of IQAC meetings held	: 02
2.11 No. of meetings with various stakeholders:	No. <input type="text" value="12"/> Faculty <input type="text" value="02"/>
	Non-Teaching Staff <input type="text" value="06"/> Students <input type="text" value="06"/> Alumni <input type="text" value="01"/> Others <input type="text" value="03"/>
2.12 Has IQAC received any funding from UGC during the year?	Yes <input type="text"/> No <input checked="" type="text"/>
If yes, mention the amount	<input type="text"/>
2.13 Seminars and Conferences (only quality related)	

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

INTERNATIONAL SEMINARS/PANEL DISCUSSIONS:

1. International Seminar on Climate Change
2. International Seminar on Epigenetics
3. International Seminar on Psychrophilic adaptation and microbial diversity of Antarctica .
4. International Seminar on Climate Change issues
5. International Seminar on Difficulty in Discussing Climate Change
6. International Seminar on Microbiotechnology for environment and Cancer management
7. International Seminar on Swallow, Reflux and Brain
8. International Seminar on Save The Frogs

NATIONAL SEMINAR:

1. Workshop on Mathematical applications
2. Seminar on Trends in Surface Science and Related Areas (TSSRA) in collaboration with Indian Society for Surface Science and Technology (ISSST), Department of Chemistry, Jadavpur University
3. Seminar on Science advancement & IITs role
4. Seminar on Chemistry in Everyday Life
5. Seminar on Topological insulators
6. Seminar on New Age Skills for Future of Jobs
7. Workshop in Mathematics
8. Seminar on Swami Vivekananda, Sister Nivedita, Indian Society & Nationalism Sponsored by Indian Council for Social Science and Research (ICSSR), New Delhi
9. Workshop on Climate Change Organized by Sano Sansar initiative and Lieber Earth
10. Gold Nanostars in Plasmonic Photothermal Therapy
11. National workshop entitled Herbarium Techniques and Plant Nomenclature in collaboration with Central National Herbarium & ENVIS Resource Partner, Botanical Survey of India (MoEF & CC), AJC Bose Indian Botanic Garden, Howrah.

STATE LEVEL SEMINAR:

1. Seminar on 'India in the International Science Arena'
2. Teachers' Day Seminar: Recent Advancement in Biodiversity & Conservation & Recent Scientific Advancement in India
3. NSS Orientation Programme on AIDS, Thalassemia , Vector Borne Diseases
4. Seminar on Sister Nivedita : Facts & Facets
5. National Science Day Celebration Seminar
6. Seminar on Organic Substitution Reactions
7. Seminar on Nanotechnology for Quantum Devices
8. Seminar on Innovation in Science Education Research

INSTITUTIONAL SEMINAR:

1. Discussion on CBCS in Post Graduate level
2. Seminar on Plant – Nematode Interaction
3. Global climate change and its effects on Ecosystem & Biodiversity.
4. Carbon sequestration through green bioresource: A low cost method for mitigation of Air Pollution
5. Synthesis and Use of Metal complexes

2.14 Significant Activities and contributions made by IQAC

1. The College has started to function in the new Autonomous mode from 2017-18
2. The Teaching-Learning mode was framed in the Semester Based CBCS pattern
3. Syllabi of the different UG courses were framed in the CBCS mode.
4. Academic Council was constituted for the administration of the autonomous system
5. The First two meetings of the Academic Council were held during the two semesters i.e. Jul-Dec and Jan-June respectively
6. Norms for the new Autonomous mode were framed and passed at the meetings of the Academic Council
7. Board of Studies were formed for the respective Departments
8. The First two meetings of the Board of Studies were held during the two semesters i.e. Jul-Dec and Jan-June respectively
9. Syllabus, Evaluation pattern, Proposed list of External paper setters and moderators were discussed at the Board of Studies Meetings
10. The Controller of Examinations Office was set up for conducting examinations in the new mode.
11. Mid-Semester and End Semester Examinations were conducted for the First and Second Semesters involving a combination of Internal and External Paper setters, moderators and evaluators.
12. Special emphasis was laid on Attendance, Class performance and continuous evaluation in the examination system.
13. The IQAC maintained a regular track record in promoting International and National Seminars in the College.
14. Regular Parent-Teacher Meetings have been organised to involve all the stakeholders into the Teaching-Learning process and to keep them aware of the efforts put forth by the institution and seek their valuable suggestions.
15. Promoting visit of International scientists and eminent personalities like: **Prof. Ronald G. Prinn**, Massachusetts Institute of Technology, Boston, USA; **Padma Shri Dr. Jagadish Shukla**, Distinguished Professor, George Mason University, USA; **Prof. Robert Rosner**, Enrico Fermi Institute, Computation Institute, Energy Policy Institute, Chicago, USA; **Shobha Mishra Ghosh**, Asst. Secretary General, FICCI; **Mr. Masayuki Taga**, Hon'ble Consul General of Japan; **Prof. Ananda M. Chakrabarty**, University of Illinois, USA; **Dr. Bidyut Kumar Medda**, Medical College of Wisconsin, USA; **Dr. Kerry M. Kriger**, New York, USA.
16. Many eminent scientists and thinkers of the Nation were also invited on different occasions to enlighten the students and research scholars. Among them some were: **Prof. Sibaji Raha**, Bose Institute; **Dr. Kailash Chandra**, ZSI; **Prof. P.K. Panigrahi**, IISER; **Prof. Indranil Manna**, IIT Kanpur; **Prof. Man Mohan Sharma**, Padmabhushan, Padmavibhushan, FRS; **Prof. Kalobaran Maiti**, TIFR; **Dr. Malay K. Ray**, CCMB, Hyderabad; **Dr. Sourav Pal**, IIT Bombay; **Prosenjit Paul**, Climate Reality Leader, UNEP; **Prof. Samit Chattapadhyay**, IICB, Kolkata; **Prof. H. Thatoi**, North Orissa University; **Prof. Subrata Majumder**, Bose Institute; **Dr. Rathindranath Baral**, Chittaranjan National Cancer Institute; **Dr. Saurav Pal**, IISER Kolkata.
17. A special emphasis was laid to highlight and investigate the issue of Climate Change.
18. The Toppers' Academy for awarding meritorious students has awarded the toppers in different streams with cash prizes, which has been a great help for many needy students.
19. A Free-Tiffin-Scheme for students, a great attempt for students coming from economically constrained circumstances, is being continued.
20. The Institution has offered some scholarships and Tuition Fee Waiver Schemes for meritorious but needy students.

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41. The Institution has offered some scholarships and Tuition Fee Waiver Schemes for meritorious but needy students.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
Application for <i>Autonomous College</i> status to UGC	Granted Autonomous status by UGC for the period 2017-2022
Syllabus design according to Choice-Based Credit System for the Autonomous mode.	The entire syllabus for 6 semesters have been framed according to CBCS pattern comprising of Core Courses, Generic Electives, Skill Enhancement courses, Discipline Specific Electives.
Formation of Academic Council for the autonomous mode	Academic Council was formed and the first meeting of the Academic Council was held.
Formation of Board of Studies for different courses as a part of autonomy.	Board of Studies was formed and the first meetings were held for the respective courses.
Application for NIRF Ranking	The College secured Rank 29 on a National basis.
Organization of Seminars & Workshops	32 Seminars & Workshops were organised in one year.
Promoting participation of the students in various Co-curricular events	<p>*Avik Jana, Physics (Hons.) student, received the 4th prize in an Inter-College Art Competition on "Bhagini Niveditar Seva Adarsha" in RK Mission Vidyamandira, Belur.</p> <p>*Three students of Zoology (Hons.) stood First in Poster presentation session of ALLERCON 2018 on 14.1.2018.</p> <p>*Tanmay Dutta, Zoology (Hons.) student, stood First in Poster presentation session of National Seminar on Biodiversity & Conservation Scenario in 21st Century organized by West Bengal Biodiversity Board, SEBA and WBGSTA.</p> <p>*Sourav Mukherjee, Physics (Hons.) student, stood First in debate Competition organized by VECC, Kolkata.</p> <p>*Snehasish Ghosh, Zoology (Hons.) student, stood First in a Problem Solving Contest in a workshop on Ecological Methodologies organized by Asutosh college.</p> <p>*Shoubhik Das and Rajnath Das of Zoology (Hons.) stood 2nd and 3rd respectively in a logo competition for ZOOQUEST 2018.</p> <p>* Three students and four students of Zoology (Hons.) respectively stood 1st and 2nd in Innovative Model Competition under BIOSCOPE-2018 Awards.</p>

	<p>*Four students of Botany (Hons.) stood 2nd in poster Presentation under BIOSCOPE-2018 awards.</p> <p>*Two students of Zoology (Hons.) stood 3rd in Debate Competition under BIOSCOPE-2018 awards.</p> <p>*Two students of Zoology (Hons.) stood 2nd and 3rd respectively in the Extempore Competition ZOOQUEST organized by W.B. biodiversity Board, Zoology Dept. of CU and ZSI, Calcutta.</p>
Introduction of newer departments / courses	<p>UG course for Microbiology and Computer Sciences is going to start from session 2018-2019. Application for PG course in Mathematics has been submitted.</p>
To promote all round development	<p>Introduction of a Six-month Certificate Course in Yoga for Health and Mind in collaboration with West Bengal Council of Yoga and Naturopathy from the session 2017-18</p>
Academic Excellence	<p>*A Research Scholar (Md. Mabud Alam) of Botany Dept. received the 'Best Poster Presentation award' in the 11th International Conference Bioresource and Stress Management in Jaipur(Nov., 8-11, 2017).</p> <p>*Anindya Sil, Zoology (Hons.) student, secured All India Rank 1 (Top 1%) in NPTEL course on Animal Physiology conducted by IITs; Debanjan Ray, PG Student in Chemistry, secured the Top 5% category marks. Out of 18 students under NPTEL course, 15 students secured the "Elite" range of marks (60-89%) and 01 student secured "Elite+Gold" status (=>90%).</p> <ul style="list-style-type: none"> • A number of students qualified for the PG and Integrated Ph.D. programmes in the institutions like IISc. Bangalore, TIFR, IITs, IISERs, BHU, CUCET etc.
ISBN Publications	<p>The College has published a book 'Sister Nivedita and her contributions to India' with ISBN No. mainly based on the lectures delivered in an International Seminar held in the College in 2018.</p>

* Attach the Academic Calendar of the year as Annexure. **(Annexure-i)**

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

After the AQAR was prepared by IQAC it was placed before the members of IQAC and management Body of the College. Keeping in mind the suggestions put forth by the Committee the report was finalised for submission.

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
Ph.D.	2	NIL	Nil	NIL
PG	2	NIL	2	NIL
UG	5	NIL	NIL	NIL
PG Diploma	NIL	NIL	NIL	NIL
Advanced Diploma	NIL	NIL	NIL	NIL
Diploma	NIL	NIL	NIL	NIL
Certificate	5	NIL	NIL	2
Others	NIL	NIL	NIL	NIL
Total	13	NIL	NIL	2
Interdisciplinary	NIL	NIL	NIL	NIL
Innovative	NIL	NIL	NIL	NIL

√ √ √

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	7
Trimester	NIL
Annual	5

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)

Mode of feedback : Online Manual Co-operating schools (for PEI)

*Please provide an analysis of the feedback in the Annexure **(Annexure-ii)**

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

1. The College is affiliated to the West Bengal State University and so it has been following the syllabi framed by the University. So update or revision can be made only by the University and no such recent changes are available. However, the college in its autonomous mode, w.e.f. 2017-18 academic session, have its own syllabus and evaluation system and hence the option for curriculum framing and revision as per choice-based credit system becomes effective from 2017-18.

2. In the PG courses (in Chemistry & Botany) offered by the College, there is autonomy to frame the syllabus. There, occasional revision takes place from time to time.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

Applications and sanction procedure for two new Departments, namely, Computer Sciences and Microbiology have been initiated. Moreover, application for PG Course in Mathematics has been submitted.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
38	23	14	Nil	1

2.2 No. of permanent faculty with Ph.D.

29

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
3	3	N/A	N/A	N/A	N/A	1	N/A	4	3

2.4 No. of Guest and Visiting faculty and Temporary faculty

N/A

N/A

40

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	06	19	14
Presented papers	07	08	-
Resource Persons	02	07	02

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- 1) Pre-Examination Preparations: Test series are arranged for a thorough preparation of the students before the University Examinations.
- 2) Attempts are being made to enable the students to pursue NPTEL courses in distance mode in the College parallel to their B.Sc. curriculum. A good number of students have enrolled for the purpose.
- 3) Hands-on-training workshops are organised to acquaint the students to the laboratory techniques and instruments in Botany and Plant Biotechnology.
- 4) A Butterfly garden is being developed by the Department of Zoology for a methodical study on the biodiversity, feeding and metamorphosis of butterflies. This is intriguing interest among the students towards conservation and research of the environment around the college campus.
- 3) Poster presentations and class-based seminars by the students are encouraged for an in-depth understanding of a topic.
4. Students are facilitated to participate in various academic competitions organised by reputed Institutes or organization like The Zoological Society, Calcutta; NASI, Allahabad etc. to arouse greater interest and grasp on the subject.
5. Certificate courses on Computer Applications & Mushroom Cultivation provide the students an edge in their future to face the competitive job market.
6. Certificate course in Yoga for health and mind from session 2017-18 is a physical and mental boost for the young students, that in turn, will make a positive impact on their study.
6. The College has established an Institutional Membership cum Collaboration with British Council, Kolkata and American Library and Information Center, Kolkata for enrichment of academic resources. As a result, students and staff members have attended a number of academic and cultural programmes arranged by these International bodies which helps one to expand the horizons of knowledge and acquaintances.
7. For an all-round development of the students, the students are exposed to the best elements of modern scientific research and the eternal values of life for a man-making education as envisioned by Swami Vivekananda.

2.7 Total No. of actual teaching days during this academic year

256

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

- 1) UG Exams are conducted entirely by the affiliating University. In PG Botany, scrutiny of the corrected answer scripts and Supplementary Exam system has been introduced.
- 2) At the UG level, the frequency of tests has been increased to ensure proper preparation for the University Examination. Progress Evaluation tests, Pre-final Exams coupled by guardian meetings have strengthened the academic culture and has involved all the stakeholders in the process.
- 3) The College has switched over to Choice Based Credit System (CBCS) and Semester pattern from 2017-18 where there are ample opportunities for examination and evaluation reforms.

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

37(UG)

19(PG)

2.10 Average percentage of attendance of students

96%

2.11 Course/Programme wise distribution of pass percentage / Number :

Title of the Programme	Total no. of students appeared	Division/Class				
		Distinction %	I (No.)	II (No.)	III (No.)	Pass (No.)
Physics	49	N/A	30	18		0
Chemistry	51	N/A	46	02		0
Mathematics	40	N/A	14	22		6
Zoology	32	N/A	16	14		1
Botany	31	N/A	12	08		3
Chemistry (M.Sc.)	38	N/A	34	04		
Botany (M.Sc.)	28	N/A	23	05		
Computer Applications (Certificate Course)	25	N/A				25
Mushroom Cultivation (Certificate Course)	20	N/A				20
Communicative English (Certificate Course)	18	N/A				18
Yoga for Health and Mind	07	N/A				07
Value Education and Indian Culture (Certificate Course)	All UG & PG 1 st Yr.	N/A				All UG & PG 1 st Yr.

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

1. **Review of the performance** :The IQAC keeps a track of the results after midsem and endsem examination of each semester system as well as after each University Examination and advises necessary remedies for further development.

2. **Formation of ‘Toppers’ Academy’**: IQAC is always desirous to encourage and award the meritorious students. Keeping this in mind, IQAC proposed the Faculty members to form a Toppers’ Academy where financial help from teachers and well-wishers will be helpful to award a student. This is of great significance particularly for the students coming from economically constrained backgrounds.

3. **Building newer connections** : IQAC arranges seminars and workshops where the students are able to interact with many eminent academicians , reputed scientists and teachers of renowned Universities and Institutes of India and abroad. This link prepares and helps the students to go for their higher studies to those Institutes in future.

4.**Academic resources**: IQAC monitors the constant influx of study materials which range over books and journals to NPTEL resources etc. This helps both the teachers and the students to enrich themselves with the best possible academic nourishment.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	01
UGC – Faculty Improvement Programme	-
HRD programmes	-
Orientation programmes	07
Faculty exchange programme	01
Staff training conducted by the university	-
Staff training conducted by other institutions	
Summer / Winter schools, Workshops, etc.	05
Others	01

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	3	0	0	0
Non teaching Staff	18	18	0	6
Technical Staff	3	6	0	0

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

1. The newly set up Research Centre, '*Swami Vivekananda Research Centre for Multidisciplinary Research in Basic Sciences & Social Sciences*' is functioning smoothly in this academic session for full-fledged Ph.D. programmes & Research. 5 Research scholars enrolled for Ph.D. programmes are about to get their registration.

2. Three major research projects are running, two major projects are sanctioned and one major project was submitted for maintaining the constant flow in research activities. Seven Minor Research projects under 7 young faculty members are running. This has involved the young faculty members in research along with teaching.

3. Students are exposed to various kinds of field studies, data analysis and presentation to invigorate a research knack.

4. **8 International & 11 National Seminars, 8 State Level Seminars and 5 Institutional Seminars** were organised to expose the students, Research Scholars and Faculty to the recent trends in Research.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number		03	02	01
Outlay in Rs. Lakhs		Rs. 1,43,86,032/-	Rs.64,92,560/-	

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	0	07		01
Outlay in Rs. Lakhs	0	Rs. 25.94 lakhs		Rs. 2.5 lakhs/yr

3.4 Details on research publications

	International	National	Others
Peer Review Journals	34	06	-
Non-Peer Review Journals	-		-
e-Journals		-	-
Conference proceedings	02		-

3.5 Details on Impact factor of publications:

Range 0.2-4.029 Average 2.412 h-index 41.25 Nos. in SCOPUS 9

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	i) 3 years	WB-DST	Rs. 98.8 lakhs	Rs. 72,83,676/-
	ii) 3 years	WB-DST	Rs. 25,28,032/-	Rs. 17,26,544/-
	iii) 3 years	WB-DST	Rs 19.78 lakhs	Rs 13,27,200/-
	iv) 3 years	DBT (WB)	Rs. 43,00,560/-	Rs. 16,64, 520/-
	v) 3 years	DBT (Govt. Of India)	Rs. 21,92,000/-	Rs 7,87,000/-
Minor Projects	18.3.17-18.3.19	UGC	Rs. 4,30,000/-	Rs. 3,77,500/-
	18.3.17-18.3.19	UGC	Rs. 2,95,000/-	Rs. 2,25,000/-
	18.3.17-18.3.19	UGC	Rs. 3,70,000/-	Rs. 2, 07,500/-
	18.3.17-18.3.19	UGC	Rs. 4,10,000/-	Rs. 3,15,000/-
	18.3.17-18.3.19	UGC	Rs. 3,84,000/-	Rs. 3,39,000/-
	2018-2021	DHESTBT	Rs. 4.05 lakhs	Rs. 2.75 lakhs
	2018-2021	DHESTBT	Rs. 3 lakhs	Rs. 2, 05,000/-
Interdisciplinary Projects	As mentioned in ii) and iii) of Major Projects			
Industry sponsored	NA	NA	NA	NA
Projects sponsored by the University/ College	NA	NA	NA	NA
Students research projects <i>(other than compulsory by the University)</i>				
Any other(Specify)	NA	NA	NA	NA
Total	NA	NA	NA	NA

3.7 No. of books published i) With ISBN No. 04 Chapters in Edited Books 08

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
 DPE DBT Scheme/funds

3.9 For colleges

Autonomy CPE DBT Star Scheme
 INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	5	4	2	0	2
Sponsoring agencies	1) PCRA 2) RKMVC College	1) NAAC 2) UGC 3) Science Academies 4) UGC-DAE 5) ICHR	1) RKMVC College 2) Design Division, State Water Investigation Directorate (SWID), Govt. of West Bengal		RKMVC College

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations

International

National

Any other

3.14 No. of linkages created during this year.

3.15 Total budget for research for current year (2017-2018) in lakhs :

From Funding agency

From Management of University/College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	NA
	Granted	NA
International	Applied	NA
	Granted	NA
Commercialised	Applied	NA
	Granted	NA

3.17 No. of research awards/ recognitions received by faculty and research fellows Of the institute in the year

Total	International	National	State	University	Dist	College
5	2	3	NIL	NIL	NIL	NIL

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

02

08

3.19 No. of Ph.D. awarded by faculty from the Institution

03

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level

National level International level

3.22 No. of students participated in NCC events:

University level State level

National level International level

3.23 No. of Awards won in NSS:

University level State level

National level International level

3.24 No. of Awards won in NCC:

University level State level

National level International level

3.25 No. of Extension activities organized

University forum College forum
 NCC NSS Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Annual Eye Operation Camp
- Annual Blood Donation Camp
- Pulse Polio Immunization Programme Centre
- T.B. Seal Sale Camp
- Special NSS Camp for Rural Development
- Seminars: Total=32

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	4 acres (approximately) for College & 100 acres land for whole Mission	Construction of five-storied building going on (32000 sq. ft.).	College Fund	-
Class rooms	28	04 + 3500 sq.ft (on-going)	College Fund	32
Laboratories	29	1 new laboratory & 1 renovated lab.for physics dept 1 Computer Lab for Maths Dept. and 1 Comp Lab. For Comp.Sc. Dept.	State Govt.	31
Seminar Halls	02	01 for Maths. Dept.	College Fund	03
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	31	i) RFID system for Library ii) One Laminar Airflow for Microbiology iii) One BOD Incubator Shaker (YOMA) iv) One UV-VIS Spectrophotometer LMSP-UV1000B)	----- ----- -----	35

Value of the equipment purchased during the year (Rs. in Lakhs)	-	5.85 Lakhs		
Others	NA	1) 1200 Steel chair for Sri RAMAKRISHNA HALL 2) 96 Steel sofa for the seminar Hall 3) Newly furnished Canteen with Air-Condition system 4) Audio-Visual system with Projector for the SRI RAMAKRISHNA HALL	NA	NA

4.2 Computerization of administration and library

1. The entire Official work is maintained through a software developed by the College named *Smart College*. Students data, Accounts, Scholarship, etc. are all maintained and recorded in computerized version.
2. Most of the modern equipment required for the smooth running of the office like Photocopy machine, Scanners, Colour Photocopy system, Scanners, *Book Eye Scanner* etc. are used for various official and academic purposes.
3. The entire Library Catalogue is computerized. A software named *Bookworm* is used for this purpose along with maintenance of daily book issue-return records etc.
4. Wi-fi facility is there in the College Office and the library along with BSNL Broad Band Internet Connectivity.
5. The college library is equipped with the highest technology, i.e., RFID system (Radiofrequency Identification system).

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	32345	5724472	969	759658	33314	6484130
Reference Books	1459		209		1668	
e-Books	165000*					
Journals	21	22055			21	22055
e-Journals	6237*					
Digital Database						
CD & Video	112		10		122	
Others (specify)						

* e-books and e-journals are subscribed through N-LIST Programme of INFLIBNET

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	134	2	31	2	2	16	22	
Added	20	0	2	0	0	2	4	
Total	154	2	33	2	2	18	26	

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

1. The Teachers of each Department have access to desktops and laptops for teaching purposes.
2. Students are offered a UGC-Recognised Certificate Course in Computer Applications in collaboration with WEBEL where the students can be adept in the recent advances of Computer usage.
3. Apart from the Certificate Course, the College also offers a general training in Computers to every student in the very beginning of their studies in the First Year of the B.Sc. curriculum in collaboration with WEBEL.
4. The college is a member of NPTEL courses for the students to access online courses offered by the IITs and IISc.
5. The ICT-enabled classrooms in every Department offers an opportunity to make teaching-learning in-depth and lucid simultaneously.
6. The entire library catalogue, issue-return, & the office data for admissions, examinations, salary, accounts, etc. have been computerised for efficient monitoring and e-governance.

4.6 Amount spent on maintenance in lakhs :

i) ICT

Rs. 395449

ii) Campus Infrastructure and facilities	Rs. 4515054
iii) Equipments	Rs. 1127786
iv) Others	Rs. 4852825
Total :	Rs. 10891114

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

1. Formation of Toppers' Academy to encourage meritorious students through awards and special guidance.
2. Tuition fees waived for students securing 60% marks in all papers.
3. Grievance Redressal Cell for addressing the problems faced by the students.
4. Placement through campussing by leading companies like TCS, ACC etc.
5. To give access to online courses through NPTEL and get enriched.

5.2 Efforts made by the institution for tracking the progression

1. Analysis of class tests, University examinations and day-to-day response/ performance in the theoretical and lab-based classes is done to observe the trend of progression of each student.
2. Progress Evaluation Tests are taken at regular intervals for tracking the development of the students along the academic session. Pre-final tests for both theoretical and practical portions are taken to provide a simulation for Final University Examinations.
3. In case of poor performance, the students are given special guidance and separate examinations are arranged to make them at par.
4. UG & PG students need to give In-house Seminars and Poster Presentations where the academic maturity is assessed for further improvement.
5. Performance of the students at All-India Level Competitive Examinations like JAM, JEST, NET etc. are analysed thoroughly for assessing the standard of the students at the National level.
6. The Alumni tries to keep a record of the ex-students to be aware of the long-term

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
751	159	5	Certificate Courses: Computer Applications: 25 Mushroom Cultivation: 20 Communicative English: 18 Yoga in health and mind: 07

(b) No. of students outside the state

7

(c) No. of international students

0

Men	No	%	Women	No	%
	915	100		0	0

General	Last Year					Total	This Year					Total
	SC	ST	OBC	Physically Challenged	General		SC	ST	OBC	Physically Challenged		
729	121	05	136	0	991	607	145	04	157	0	915	

Demand ratio = 6:1

Drop out % = 0.08%

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

1. Special care is taken to train the UG students for various Competitive Examinations like JAM, JEST etc., for admission in reputed Institutions like IITs, IISC, TIFR etc. for Post graduate courses.
2. PG students are motivated for NET exam and guided in individual capacity.
3. Students are exposed to NPTEL Online courses for greater depth in knowledge.
4. The Certificate Courses in Computer Applications and Communicative English enables the students to keep themselves updated with the recent trends in Computer Sciences and Language expressions which helps the students in the larger scenario.
4. The students are made aware about the timings of the different Competitive examinations.

No. of students beneficiaries

5.5 No. of students qualified in these examinations -2018

NET SET/SLET GATE CAT
IAS/IPS etc State PSC UPSC Others

5.6 Details of student counselling and career guidance

- 1. Scientists and Educationists from various eminent organisations like INSA , ZSI, UGC-DAE, NAAC, Science Academies etc. visit the college and enlighten the students regarding future avenues in studies, research and jobs.
- 2. Panel Discussions are organised where many eminent industrialists offer their invaluable suggestions regarding job opportunities.
- 3. The students always receive valued advices from the Professors regarding their future plans.
- 4. In-house Campussing are arranged for the students for availing different job opportunities.
- 5. Student-Teacher-Parent Meet for overall discussion regarding academic performances and goals.

No. of students benefitted

5.7 Details of campus placement

Number of Organizations Visited	On campus		Off Campus
	Number of Students Participated	Number of Students Placed	Number of Students Placed
1	51	2	18 (approx)

5.8 Details of gender sensitization programmes

No separate gender sensitization programmes have been organised. But the Certificate Course in Value Education and Indian Culture which is mandatory for every UG student emphasizes the need for honour and reverence towards all, irrespective of gender. Seminars on the ideas preached by Swami Vivekananda are held regularly which uphold the greatness of women and the worshipful attitude that they deserve for the good of the nation.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	35	Rs. 99320
Financial support from government	95	Rs. 1864290
Financial support from other sources	21	Rs. 213000
Number of students who received International/ National recognitions	31 (Inspire)	Rs. 1860000

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: [No notable grievances have been recorded.](#)

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision

The college is a unit of Ramakrishna Mission Boys' Home, Rahara which is a branch centre of the worldwide organization, Ramakrishna Math & Ramakrishna Mission established by Swami Vivekananda.

Swami Vivekananda said 'My ideal indeed can be put into a few words and that is: to preach unto mankind their divinity, and how to make it manifest in every movement of life' & emphasized the need of 'Modern Science coupled with Vedanta'. Poised in these two visions the institution tries to follow the ideal of *Atmano mokshartham jagaddhitaya cha*, freedom from the bondage of all ignorance & misery by realizing one's divine Self and mending the path for material, intellectual and spiritual good of the entire world. Imbibing this spirit, the college envisions to manifest itself into a powerful centre of higher education aiming the full-fledged growth and fulfillment of all those coming in contact with it.

Mission

The method followed to achieve the supreme good for oneself and for all others is '*Shivajnane jivaseva*' – service done in a spirit of worship. Here in this college, the goal is to serve the students mostly coming from economically constrained circumstances by providing them quality education in the field of Science and in the art of all-square Personality Development by:

- (i) Exposing young minds to advanced scientific topics and imparting hands-on training over sophisticated analytical instruments
- (ii) To establish the college as a potential center of research activities thus creating a strong tradition of deep-rooted academic pursuits and an ambience that favours the scholarly activities
- (iii) Imparting a man-making, character-building education by a balanced development of the 3H's- Head, Heart and Hand so that the students may turn out to be wise citizens able to shoulder the responsibility of the Nation.
- (iv) A culture of labour and service, focus and perseverance, simple living and high thinking is transmitted to the students who are the future of the nation.

6.2 Does the Institution has a management Information System

1. The entire data related to the students details, fees, admission, examination etc. is maintained through a software name Smart College which is accessible by different concerned staff of the Office. This makes the process unified and smooth.
2. The data related to Accounts, Day Book Entry, Salary etc. is also maintained through the same software Smart College. As a result staff members working in different sections of the College Office are able to have a complete picture whenever they are working on any aspect.
3. The Library catalogue is also entirely computerized and this makes the searching fast and easy.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

1. For UG, the Institution does not have a direct role as per University statute. However, faculty members who are members of the Board of Studies, actively work for syllabus development to keep at par with modern trends. With implementation of autonomous mode from 2017-18 a huge scope has come as far as curriculum development is concerned.
2. For PG, Institution with its own Board of Studies composed of college faculty members as well as many distinguished Professors from other Institutions play a role in quality improvement via curriculum development.

6.3.2 Teaching and Learning

1. Each Department is equipped with Computer facility and Internet Connection for the teachers to enrich themselves and to help them in their day-to-day class teaching
2. Every Department has ICT based classrooms for an interactive teaching-learning process and for easy comprehension of complicated topics. Very often multimedia presentations and video-graphic representation makes the topics under discussion much more lucid
3. Models, e-museum concept of zoological specimens are used for teaching more effectively. Efforts are being made to set up a Plant Fossil museum with some recently collected rare Plant Fossils from different coal mines in Asansol, West Bengal.
4. Every student is given a training in Computer Applications and Spoken English just at the onset of their B.Sc. studies to keep them updated and perfect in expression skills. Since most of the students come from rural and semi-urban areas, hence expertise in Communicative English needs to be provided to them for expressing their blooming ideas and genius in science.
5. One certificate course in Yoga for health and mind has been started for UG students from session 2017-18.
6. Students are encouraged to undertake online certificate courses under NPTEL as the college is a Nodal Centre for NPTEL.
7. A *Smart Classroom* interactive board is used for various participatory classes.
8. A Virtual Class room has become functional from this session.

6.3.3 Examination and Evaluation

At present, the college is having students under both West Bengal State University as well as autonomous CBCS semester system.

For the first case, the entire examination and evaluation process for the UG level is executed under the guidelines of the affiliating University. However many of the Faculty members are involved in the Examination and Evaluation process who try to upgrade the process by their suggestions.

However, at the PG level, the College enjoys autonomy to organise and improvise the examination process. Many Professors from other reputed Institutions are also invited as moderators, external examiners etc. to make the system transparent and widely accepted. For unsuccessful candidates, the Department of Botany has introduced the provision for supplementary examination at the PG level.

Apart from these, some additional measures have been taken at the College level for the UG students during this academic session to ensure academic grasp and perfection:

1. Progress Evaluation Tests
2. Departmental Pre-final test.
3. The students are made aware of the evaluation and the necessary betterment they should go through for further precision.

For autonomous semester system, at the three months time, midsem examination and at the six month time, endsem examination are held. Attendance and continuation evaluation are considered. Results are converted into credits and SGPA.

6.3.4 Research and Development

The Institution has a strong culture of Research for more than two decades. It always caters to the various needs of the Faculty members and Research Scholars involved in Research:

1. The College had plans to start a Research Centre of its own with self-sustained infrastructure for Doctoral thesis. A Research Centre by the name '*Swami Vivekananda Research Centre for Multidisciplinary Research in Basic Sciences & Social Sciences*' is functioning smoothly.
2. The research infrastructure includes an array of sophisticated scientific instruments like HPTLC, UV & IR Spectrophotometers, Fluorophotometer, Geldoc, *Leica* digital 3-D and 2-D Microscopes, Beckmann Ultracentrifuge, High precision balance etc. The College keeps on enriching its instrumental facility. For example, in this Academic Session the College has procured a HPLC, Fluorescence Inverted Microscope, CO₂ Incubator, Western Blotting system for research in the Department of Chemistry and Botany.
3. With the day-to-day expansion in research work in the College, there is increasing demand for lab space. From the previous academic session two new research labs have been constructed for research work in Cancer Cell line.
4. Seven of the newly joined Faculty members have received Minor Research Projects from UGC.
5. A week-long UGC Sponsored Hands-on-training Workshop was arranged by the Dept. of Botany where 30 students and teachers from all over the nation participated. This is an initiative to spread the institutional expertise, infrastructural enrichment and research aptitude to other institutions. The participants were trained in the latest lab techniques in molecular biology and biotechnology.
6. Many UG students from the Dept. of Zoology are also encouraged to carry on various field studies with qualitative and quantitative precision. Some of these

6.3.5 Library, ICT and physical infrastructure / instrumentation

1. The Library is time-to-time enriched with new books.
2. The entire Library Catalogue is computerised which gives ease for searching books.
3. A collaboration with American Library has increased access to many ebooks and journals.
4. Every Department has ICT enabled classrooms.
5. ICT enabled centrally air-conditioned Seminar Hall *Swami Vivekananda Hall* is used for seminars, special lectures, panel discussions and workshops.

6.3.6 Human Resource Management

The Institution is a unit of the Ramakrishna Mission founded and inspired by Swami Vivekananda. Following his footsteps the college tries to spread a culture of man-making education. The Institution knows that it is giving shape to the future of the Nation and world at large by working on the powerhouse called youth. For channelling this power along beneficial channels the Institution emphasises a balanced development of both the head and the heart, academic excellence and humanitarian expansion, Western science and Indian values. For this the Institution has taken few steps during this academic session:

- 1) A six-month certificate course on *Value Education & Indian Culture* has been started for the First Year UG students so that they can imbibe the spirit of Swami Vivekananda's Man-making Education at the very onset of their tenure in the College. This is perhaps a correct time in life when a young student can really admire the depth of Values and practise them to their fruition.
- 2) Along with various seminars on the ideas of Swami Vivekananda for students which have become common events in the College, this academic year a Workshop on *Value Education for Professionals including Teachers* was organised by the Institution. This was unique since it drew many professionals, guardians, teachers for revivifying the ideals of a meaningful life.
- 3) As a corollary to the certificate course on *Value Education & Indian Culture* for the students, weekly cleaning programmes have been started during this academic session which has increased their involvement with the College and its premises.
- 4) A text-book has been published from the College named *Jivan Sopan* for the aforesaid certificate course. This book comprises of various cardinal points of day-to-day life like following a daily routine for synchronising the life style, the art of living happily by walking along the path of sincerity, dedication, selflessness and so on.

6.3.7 Faculty and Staff recruitment

This year college has recruited 2 management appointed staff for office and department of the college.

6.3.8 Industry Interaction / Collaboration

In an International Seminar on ‘Road Map for decarbonization of Indian energy system’, Prof. Mohsen Assadi, Professor, University of Stavanger, Norway, Dr. Homam Nikpey, Post-Doc, University of Stavanger, Norway, Dr. Amir Safari, Post-Doc, University of Stavanger, Norway & Prof. Sudipta De, Mechanical Engineering Department, Jadavpur University discussed the different industrial processes going on in Norway and India.

In a state level seminar on ‘Wise use of water and its conservation for sustainable development’ in collaboration with Design Division, State Water Investigation Directorate (SWID), Govt. of West Bengal, eminent scientists of the SWID discussed various industrial techniques for water harvesting and conservation.

Prof. Samir Bhattacharya, FNA, FASc, FNASc (Former Director Indian Institute of Chemical Biology, Kolkata), INSA Golden Jubilee Research Professor has discussed about drug development against diabetics which can reach the commercial level.

6.3.9 Admission of Students

The application process for PG Admissions has been switched over to online mode from the previous year. This has made the process more accessible for students residing far away. As a result the number of applicants has also risen to a considerable extent. The analysis of the applications submitted online has also become easy and less prone to error.

The UG Application process has been made entirely through the online mode from the previous session. The college has introduced the admission test for the selection of UG students.

6.4 Welfare schemes for

Teaching	Cooperative Society for monetary benefit after retirement, loans etc.
Non teaching	Cooperative Society for monetary benefit after retirement, loans etc.
Students	<ol style="list-style-type: none">1. Scholarships from Ramakrishna Mission for needy students.2. Tuition fee waiver for students securing 60% or above in all papers of the University Exam3. ‘Toppers’ Academy’ awards for needy and meritorious students through cash prizes.4. Students are enlightened to avail different scholarships like Merit-cum-Means, Inspire, Jindal, WBMDFC scholarships as per their performance and economic background.5. ‘Personal Integrity Award’ has been started for students with overall performance and human development.6. Free Tiffin Scheme for students.

6.5 Total corpus fund generated : Rs. 27615227.22 as per Audit Report 2016-2017

6.6 Whether annual financial audit has been done Yes No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	UGC through its series of academic as well as administrative audit cum evaluation has conferred the status of Autonomy in 2017	Yes	IQAC
Administrative	Yes	UGC through its series of academic as well as administrative audit cum evaluation has conferred the status of Autonomy in 2017	Yes	Governing Body

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes Yes No

For PG Programmes Yes No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

1. Earlier there used to be two University Examination during the Three-year degree course: Part I (comprising of the Ist and IInd Years) & Part II (comprising of the IIIrd Year). However at present, a student needs to sit for three University examinations at the end of each academic session namely Part-I, Part-II & Part-III Examinations respectively.

2. For Autonomous UG courses as well as for PG courses (Chemistry and Botany) of the college, semester examination system is followed instead of the previously prevalent annual examinations.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

UGC has conferred the Autonomous status in the year 2017 to the college with the full support and assistance of the affiliating university i.e. West Bengal State University.

6.11 Activities and support from the Alumni Association

Many of the Alumni association members constantly support the activities in the college. During the Annual Free Eye Operation Camp conducted by the college some of the members take active role in raising funds and collecting medicines and eye drops for the needy patients.

2. At times the Alumni Association sponsors seminars and lectures by distinguished speakers.

6.12 Activities and support from the Parent – Teacher Association

Though there is no formal Parent-Teacher Association, but the parents are constantly abridged about their wards' performance. Whenever required, there are Parent-Teacher meetings for discussing issues regarding the betterment of the students' performance. The guardians are invited for different cultural programmes in the College.

In this academic session all the five Departments conducted around 12 Parent-Teacher meetings to discuss academic issues.

6.13 Development programmes for support staff

There is a cordial relationship between the support staff, the faculty members and college authorities which encourages free exchange of ideas for an united effort towards the holistic development of the Institution . They are free to participate in any academic, athletic and cultural programmes for their personal enrichment and recreation. There is a Cooperative Society for financial aid of the support staff. They can avail the medical facilities provided by the Ramakrishna Mission.

6.14 Initiatives taken by the institution to make the campus eco-friendly

The College campus is characterised by lush green surroundings, garden, water bodies etc. This is indeed like an oasis in the heart of the hustle bustle of the city.

One of the main thrusts of the college is hygiene. For this purpose there are provisions to provide purified cold water to the stakeholders in the college.

The college promotes alternate sources of energy to minimize the pollution level. There is a new 42 KW Solar Power Unit, installed this year which supplies the excess production to the main grid.

Our College was selected to participate in Centre for Science and Environment (CSE) 's National Knowledge Conclave held at the Anil Agarwal Environment Training Institute (AAETI), Neemli, Rajasthan, starting from Jan 30 - Feb 03, 2018 based on our report on '*Green Campus: An inventory to assess the green performance of your campus*'. Debabrata Shome, Teacher of our Dept. of Zoology participated in the Conclave. Out of the reports submitted by different colleges, our report was one of the only two which were selected and presented in the Conclave.

Members of CSE (Centre for Science and Environment), Delhi: Mr. Rajneesh Sareen and Ms. Mitashi Singh visited the College on 4th July, 2018

An energy audit was carried out by the scientists and students of IISWBM.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

1. After application, presentation and other selection procedures the UGC has conferred the '**Autonomous Status**' to the college.
2. The 'Swami Vivekananda Research Centre for Multidisciplinary Research in Basic Sciences & Social Sciences' of the College has started functioning from this year with independent RET examinations, Interviews. 5 Research Scholars have enrolled themselves this year in the Dept. of Botany for pursuing their Ph.D.
3. The IQAC maintained a regular track record in promoting International and National Seminars in the College.
4. Regular Progress Evaluation Tests and Pre-final Examination series have been arranged in many Departments for constant monitoring of the student progress.
5. Remedial Classes have been organised in the Department of Zoology for providing extra academic care to the weak students.
6. Regular Parent-Teacher Meetings have been organised to involve all the stakeholders into the Teaching-Learning process and to keep them aware of the efforts put forth by the institution and seek their valuable suggestions.
7. Promoting visit of International scientists and eminent personalities like:
 - Prof. Ronald G. Prinn, MIT, USA.
 - Prof. Robert Rosner, Enrico Fermi Institute, University of Chicago, USA.
 - Padmasri Prof. Jagadish Shukla, George Mason University, USA
 - Prof. Ananda Mohan Chakraborty, University Professor, Dept. of Microbiology & Immunology, College of Medicine, University of Illinois, Chicago, USA .
 - Dr. Bidyut Kumar Medda, Medical College of Wisconsin.
8. Many eminent scientists and thinkers of the Nation were also invited on different occasions to enlighten the students and research scholars. Among them were:
 - Dr. Sibaji raha, Bose Institute.
 - Dr. Kailash Chandra, ZSI.
 - Prof. Indranil Manna, IIT Kharagpur.
 - Prof. Man Mohan Sharma, Padmabhusan, Padmavibhushan, FRS.
 - Prof. Kalobaran Maiti, TIFR.
 - Dr. Malay Kumar Ray, CCMB, Hyderabad.
 - Prof. Samit Chattapadhy, IICB, Kolkata.
 - Prof. H. Thatoi, North Orissa University.
 - Dr. Rathindranath Baral, Chittaranjan National Cancer Institute.
9. The Toppers' Academy for awarding meritorious students has awarded the toppers in different streams with cash prizes which has been a great help for many needy students.
10. A Free-Tiffin-Scheme has been started for students, which is again a considerable attempt for many students coming from economically constrained circumstances.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Plan of Action	Achievements
Application for <i>Autonomous College</i> status to UGC	Granted Autonomous status by UGC for the period 2017-2022
Syllabus design according to Choice-Based Credit System for the Autonomous mode.	The entire syllabus for 6 semesters have been framed according to CBCS pattern comprising of Core Courses, Generic Electives, Skill Enhancement courses, Discipline Specific Electives.
Formation of Academic Council for the autonomous mode	Academic Council was formed and the first meeting of the Academic Council was held.
Formation of Board of Studies for different courses as a part of autonomy.	Board of Studies was formed and the first meetings were held for the respective courses.
Application for NIRF Ranking	The College secured Rank 29 on a National basis.
Organization of Seminars & Workshops	32 Seminars & Workshops were organised in one year.
Promoting participation of the students in various Co-curricular events	<p>Avik Jana, Physics (Hons.) student, received the 4th prize in an Inter-College Art Competition on "Bhagini Niveditar Seva Adarsha" in RK Mission Vidyamandira, Belur.</p> <p>*Three students of Zoology (Hons.) stood First in Poster presentation session of ALLERCON 2018 on 14.1.2018.</p> <p>*Tanmay Dutta, Zoology (Hons.) student, stood First in Poster presentation session of National Seminar on Biodiversity & Conservation Scenario in 21st Century organized by West Bengal Biodiversity Board, SEBA and WBGSTA.</p> <p>*Sourav Mukherjee, Physics (Hons.) student, stood First in debate Competition organized by VECC, Kolkata.</p> <p>*Snehasish Ghosh, Zoology (Hons.) student, stood First in a Problem Solving Contest in a workshop on Ecological Methodologies organized by Asutosh college.</p> <p>*Shoubhik Das and Rajnath Das of Zoology (Hons.) stood 2nd and 3rd respectively in a logo competition for ZOOQUEST 2018.</p> <p>* Three students and four students of Zoology (Hons.) respectively stood 1st and 2nd in Innovative Model Competition under BIOSCOPE-2018 Awards.</p> <p>*Four students of Botany (Hons.) stood 2nd in</p>

	<p>poster Presentation under BIOSCOPE-2018 awards.</p> <p>*Two students of Zoology (Hons.) stood 3rd in Debate Competition under BIOSCOPE-2018 awards.</p> <p>*Two students of Zoology (Hons.) stood 2nd and 3rd respectively in the Extempore Competition ZOOQUEST organized by W.B. biodiversity Board, Zoology Dept. of CU and ZSI, Calcutta.</p>
To promote all round development	Introduction of a Six-month Certificate Course in Yoga for Health and Mind in collaboration with West Bengal Council of Yoga and Naturopathy from the coming session 2017-18
Academic Excellence	<p>*A Research Scholar (Md. Mabud Alam) of Botany Dept. received the 'Best Poster Presentation award' in the 11th International Conference Bioresource and Stress Management in Jaipur(Nov., 8-11, 2017).</p> <p>*Anindya Sil, Zoology (Hons.) student, secured All India Rank 1 (Top 1%) in NPTEL course on Animal Physiology conducted by IITs; Debanjan Ray, PG Student in Chemistry, secured the Top 5% category marks. Out of 18 students under NPTEL course, 15 students secured the "Elite" range of marks (60-89%) and 01 student secured "Elite+Gold" status (=>90%).</p> <p>*A number of students qualified for the PG and Integrated Ph.D. programmes in the institutions like IISc. Bangalore, TIFR, IITs, IISERs, BHU, CUCET etc.</p>
ISBN Publications	The College has published a book ' <i>Swami Vivekananda and his Universal Ideas</i> ' with ISBN No. mainly based on the lectures delivered in an International Seminar held in the College in 2016.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

1. One of the best practices of the college includes Character-building Education to provide a holistic growth of the youth.
2. Another best practice followed in the college is a blend between Research and Curricular academics to strengthen the arena of pure sciences to complement the growth of Technology.

For details please see Annexure-iii

***Provide the details in annexure (annexure need to be numbered as i, ii,iii)**

7.4 Contribution to environmental awareness / protection

1. The College campus is characterised by lush green surroundings, garden, water bodies etc. This is indeed like an oasis in the heart of the hustle bustle of the city.
2. One of the main thrusts of the college is hygiene. For this purpose there are provisions to provide purified water to the stakeholders in the college.
3. The college promotes alternate sources of energy to minimize the pollution level. There is a new 42 KW Solar Power Unit, installed this year which supplies the excess production to the main grid.
4. The students and the Staff members actively participated in the *Swachha Bharat Abhiyan* by engaging themselves in Campus Cleaning Programme. Along with that there was a seminar on 'Environmental Awareness' for the students.
5. The students clean the classrooms, library and lab spaces weekly to imbibe a spirit of cleanliness and service to the Institution.
6. Our College was selected to participate in Centre for Science and Environment (CSE) 's National Knowledge Conclave held at the Anil Agarwal Environment Training Institute (AAETI), Neemli, Rajasthan, starting from Jan 30 - Feb 03, 2018 based on our report on '*Green Campus: An inventory to assess the green performance of your campus*'. Debabrata Shome, Teacher of our Dept. of Zoology participated in the Conclave. Out of the reports submitted by different colleges, our report was one of the only two which were selected and presented in the Conclave. Members of CSE (Centre for Science and Environment), Delhi: Mr. Rajneesh Sareen and Ms. Mitashi Singh visited the College on 4th July, 2018

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7.5 Whether environmental audit was conducted? Yes No

Design Division, State Water Investigation Directorate (SWID), Govt. of West Bengal visited our College and did the official investigation cum audit. In this process of investigation cum audit a proposal has been submitted from our end regarding *Roof-top Rain water Harvesting and water Recharge system inside the Campus* to develop the campus in a more eco-friendly manner.

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

SWOT Analysis:

Strength:

1. Strong academic environment with experienced teachers, proper teaching-learning infrastructure, rich collection of books and journals.
1. Excellent academic performance by the students at the University level.
2. Student success at the National Level in different competitive examinations like JAM ; JEST; PG entrance examinations for IISC Bangalore; TIFR ; HRI, Allahabad; JNU, Delhi; BHU, University of Hyderabad etc.
3. Well equipped Research Infrastructure with many Research scholars working for their Doctoral thesis.
4. Emphasis on Value based education system to promote Character building and Scientific education simultaneously.
5. The alumnus of the College comprises many distinguished scientists, professionals and officials for example Prof. Shankar Narayan Pal , Padmashree, Ex.-Director Indian Statistical Institute, Kolkata; Prof. Dipak Kar, Pro-Vice Chancellor, CU; Shri Subhashish Dutta, Chairman, DTDC, Dr. Somnath Bandyopadhyay , Associate Prof., Nalanda University etc. This galaxy radiates the potential of the Institution which draws many students and teachers to it.

Weakness:

1. The College has PG wings for only two of its Departments. In future it envisions to have similar facility for the other Departments as well.
2. Since the College is a Grant-in Aid College so the financial limitations hinder the fulfilment of many plans.

Opportunities

1. Students get care, guidance and environment for developing themselves for Higher Education and future prospects.
2. Newly joined Faculty members can venture into research just after joining owing to a pre-existing research culture in the college.
3. The INFLIBNET facilities & collaboration with the British Council Library provides an access to a huge number of ebooks and e-journals.
4. UGC Recognised Certificate Courses in Computer Applications and Mushroom Cultivation provide a rare opportunity to the students to avail a course parallel to their major subject.
5. Owing to the wide admiration for the ideals and activities of the Ramakrishna Mission many well-wishers and officials come forward to help the Institution in various capacities.

Threats:

1. Since most of the students come from rural and economically constrained backgrounds, the College does not charge a huge fee from them. However with the shooting prices of chemicals and other infrastructural maintenance expenses, it has become a challenge to meet the demands of the present day educational set up with such a meagre input.
2. With the changing times, the question of a value-based education system has become a challenge since the very necessity and practice of an integral character is becoming rarer and unemphasised in wider circumstances. In this situation the emphasis on character as the pivotal treasure of man is looked upon as an idea obsolete and unnecessary. Thus the Institution has to fight its battle single-handedly to keep up the high ideals of Sacrifice and Service as a source of real joy in life.

8. Plans of institution for next year

1. To set up a Yoga and Naturopathy Hall for students and staff members of the college.
2. To set up a Well-furnished IQAC conference Room with audio-visual facility.
3. To construct a seminar hall with about 200 seating capacity in the new byilding.
4. To Install a 12 feet Swami Vivekananda Statue (made of bronze) on the new building
5. To fabricate one(1) new computer laboratories for Physics Dept .

Name : DR. PRADYOT KUMAR MEDDA

Name : SWAMI KAMALASTHANANDA

Pradyot Kumar Medda

Sw. Kamalasthananda

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

**Coordinator, IQAC
Ramakrishna Mission
Vivekananda Centenary College
Rahara, Kolkata-700118**

**Principal(Actg)
Ramakrishna Mission
Vivekananda Centenary College
P.O. Rahara, Kolkata-700118**

<u>Ramakrishna Mission Vivekananda Centenary College, Rahara</u>		
<u>Tentative Academic Calendar for the Session 2017-2018</u>		
<i>Sl. No.</i>	<i>Events</i>	<i>Tentative Dates (2017-18)</i>
1	Issue of B.Sc. Admission Forms	5th June-13th June, 2017
2	Final exam M.Sc. 2nd Semester	6th-16th June, 2017
3	Publication of List for B.Sc. Admission Counselling	16th June, 2017
4	Counselling & Admission Dates for B.Sc.	22nd-24th June, 2017
5	Declaration of result of 2nd Semester (M.Sc.)	30th June, 2017
6	Declaration of result of 4th Semester (M.Sc.)	30th June, 2017
7	Commencement of classes (M.Sc. IIIrd Sem)	4th July, 2017
8	Commencement of Classes for B.Sc. Ist Year	5th July, 2017
9	Issue of M.Sc. Admission Forms	10th-21st July, 2017
10	Commencement of Classes for B.Sc. IIIrd Year	17th July, 2017
11	Admission Test for M.Sc. Admission	23rd July, 2017
12	Publication of List for M.Sc. Admission Counselling	26th July, 2017
13	Issue of Application Forms for Certificate Courses	27th-31 st July, 2017
14	Counselling & Admission Dates for M.Sc. Admission	28 th July & 29 th July, 2017
15	Commencement of Classes for B.Sc. IInd Year	1 st August, 2017
16	Commencement of classes (M.Sc. 1 st Sem)	4 th August, 2017
17	Commencement of Classes for Certificate Courses	4 th August, 2017
18	University Registration for UG students	22 nd -25 th August, 2017
19	Teachers' Council Meeting (Annual)	6 th September, 2017
20	B.Sc. Mid Sem Exam	12 th -15 th September, 2017
21	University Registration for PG students	19 th & 20 th September, 2017
22	Freshers' Welcome	3 rd September, 2017
23	Blood Donation Camp	4 th September, 2017
24	Puja Vacation	26 th Sept.-21 st Oct, 2017
25	B.Sc. Ist Semester Exam	11 th -23 rd December, 2017
26	Free Eye Operation Camp	16th-18th December, 2017

Ramakrishna Mission Vivekananda Centenary College, Rahara

Tentative Academic Calendar for the Session 2017-2018

<i>Sl. No.</i>	<i>Events</i>	<i>Tentative Dates (2017-18)</i>
27	Winter Recess	25th Dec, 2017-1st Jan, 2018
28	Final exam M.Sc. 1st Semester	5th-14th January, 2018
29	Final exam M.Sc. 3rd Semester	5th-14th January, 2018
30	Annual Sports	31 st January, 2018
31	Annual Prize Distribution	9th February, 2018
32	Saraswati Puja	22nd & 23rd January, 2018
33	Alumni Meet	26th January, 2018
34	Declaration of result of M.Sc. 1st Semester	30th January, 2018
35	Declaration of result of M.Sc. 3rd Semester	30th January, 2018
36	Commencement of classes (M.Sc. II nd Sem)	06th February, 2018
37	Commencement of classes (M.Sc. IV th Sem)	06th February, 2018
38	College Test (B.Sc. Part-III)	6 th -10 th February, 2018
39	Submission of Marks (B.Sc. Part-III Test)	20th February, 2018
40	TC. Meeting and Sent-up list (B.Sc. Part-III)	21st February, 2018
41	Sri Ramakrishna Jayanti Annual Procession	16th February, 2018
42	College Test (B.Sc. Part-II)	1st -7th March, 2018
43	Submission of Marks (B.Sc. Part-II Test)	13th March, 2017
44	TC. Meeting and Sent-up list (B.Sc. Part-II)	14th March, 2017
45	B.Sc. Mid Sem Exam	26 th - 28 th March, 2018
46	Submission of Marks (B.Sc. Mid Sem Exam)	9 th April, 2018
47	TC. Meeting and Sent-up list (B.Sc. Mid Sem Exam)	12th April, 2018
48	Final exam M.Sc. 4th Semester	22nd-30th May, 2018
49	B.Sc. End Sem Exam	25 th May-9 th June, 2018
50	Submission of Marks (B.Sc. End Sem Exam)	30 th June, 2018

Students' Feed Back Form Analysis

1. Please give a rating of your course on the following

9	8	7	6	5	4	3	2	1
Extremely Good	Very Good	Good	Moderately Good	Moderate	Somehow Tolerable	Poor	Very Poor	Extremely Poor

Sl.No	Particulars	Rating
1	Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives)	9 = 52%
		8 = 38%
		7 = 10%
2	Depth of the course content	9 = 34%
		8 = 38%
		7 = 28%
3	Extent of coverage of course	9 = 41%
		8 = 43 %
		7 = 16 %
4	Extent of effort required by students	9 = 40%
		8 = 52 %
		7 = 8 %
5	Overall rating	9 = 64%
		8 = 30%
		7 = 6%

2. The syllabus was

1) challenging	2) adequate	3) inadequate	4) dull	5) irrelevant
52%	46%	2%		

3. How much of the syllabus was taught in class?

1). 90 to 100%	2).75 to 90%	3) 50 to 75%	4) 40 to 50%	5) less than 40%
62%	37%	1%		

4. What is your opinion about the library holdings for the course?

1) excellent	2) adequate	3) inadequate	4) poor	5) very poor
70%	30%			

5. Were you able to get the prescribed readings?

1) very good	2) good	3) average	4) poor	5) very poor
59%	40%	1%		

6. The internal evaluation system as it exists is

1) very good	2) good	3) average	4) poor	5) very poor
72%	28%			

7. When you meet students who have taken a similar programme at other Colleges do you feel that your programme is ?

1) superior	2) equal	3) inferior
86%	14%	

8. How do you rate the student-teacher relationship in the College as a whole?

1) very good	2) good	3) satisfactory	4) unsatisfactory	5) very poor
59%	25%	16%		

9. How do you rate the student-teacher relationship in your department?

1) very good	2) good	3) satisfactory	4) unsatisfactory	5) very poor
45%	30%	25%		

10. How do you find the College's administrative offices?

1) very helpful	2) helpful	3) indifferent	4) unhelpful	5) cumbersome
56%	42%	2%		

11. Did you participate in any of the extra curricular activities of the Department / College?

1) very often	2) often	3) sometimes	4) rarely	5) never
40%	22%	36%	2%	

12. What was the attitude of teachers to extra curricular activities?

1) co-operative	2) indifferent	3) discouraging
52%	46%	2%

13. Has your time at the College been intellectually enriching?

1) yes	2) marginally	3) no
94%	6%	

14. After leaving the College how will you talk about it?

1) proudly	2) indifferently	3) disparagingly
100%		

15. Overall Rating of the Programme (tick in the relevant cell)

Sl.No	Item	Very Good	Good	Average	Poor	Very Poor
1	Academic content	90%	10%			
2	Fairness of evaluation	83%	17%			
3	Interaction with faculty	76%	16%	8%		
4	Interaction with administration	92%	8%			
5	Library facilities	90%	10%			
6	Computer facilities	30%	31%	39%		
7	Extra-curricular activities	41%	44%	15%		
8	Sports facilities	35%	22%	43%		

1. Title of the Practice

‘Character-building Education’

2. Goal

Being a part of the Ramakrishna Mission, the Institution is instrumental in giving shape to Swami Vivekananda’s ideas regarding education. Swami Vivekananda says *‘What is education? Is it book-learning? No. Is it diverse knowledge? Not even that. The training by which the current and expression of will are brought under control and become fruitful is called education.’* So according to Vivekananda, a man whose will does not drag him hither and tither but rather he himself possessing full control over his will employs it along positive and beneficial channels is a truly educated man. Such an education which rests on self-control and correct self-exertion is what Vivekananda called ‘Man-making, Character-building Education’. Inspired by such a lofty ideal of education the Institution attempts to inculcate a combination of practical skills to fulfill the basic needs, moral values for a superior inter-personal relationship, spiritual wisdom for a fearless existence.

3. The Context

After the Independence of India, a gradual decline in the moral integrity of the society as a whole, a slow poisoning of the youth psyche by the glitter egocentric pleasures, a clouded wisdom of the elders unable to show the path of strength and peace is undoubtedly evident to any careful observer. Time is ripe enough to save the youth, the future citizens from a disastrous tragedy. So the Institution along with its leader, Swami Vivekananda, possesses genuine feeling for the youth and wants to empower them with a strength that is imperishable, with a hope that is unflinching and with a freedom that is unselfish. Swami Vivekananda says, *‘money does not pay, nor name; fame does not pay, nor learning. It is love that pays; it is character that cleaves its way through adamant walls of difficulties.’*

Hence, the Institution is trying to guide the youth along the lines of character- building so that tomorrow’s sunrise becomes more golden.

4. The Practice

Practices:

- First of all the very ambience of the Institution instills orderliness and calmness in one and all. As one enters the college the gigantic portraits of Swami Vivekananda as if calls upon the ‘sleeping soul’ towards a glorious way of life based on self-confidence and self-sacrifice. The main campus welcomes the visitors into the holy precincts of a Universal Temple dedicated to Shri Ramakrishna, the Prophet of Religious harmony. Thus just an unplanned entry into the campus is gifted with an elevating experience. The students having got an opportunity to study in such an environment imbibe the spirit of holiness and serenity within them.
- A number of programmes are arranged to expose the students to the ideals of Indian Culture and Spirituality with a background of Universalism as propounded by the great lives and teachings of Shri Ramakrishna, Holy Mother Shri Sarada Devi and Swami Vivekananda. Some of the important measures taken in this direction to fortify the character of the youth are given below:
 - a) Seminars on Swami Vivekananda’s ideas are arranged in the college. Eminent speakers from all walks of life starting from Professors coming from Science, Arts and Engineering fields, Vice-Chancellors, Monks of the Ramakrishna Mission and many other dignitaries enlighten the

students towards right understanding and implementation of Swamiji's bold and strong ideas. They shed light on different aspects of the great one's life and message like Vivekananda's concepts on Education, Science and Technology, Service, Nation-building, Youth, Human Development and so on. Thus, inspirations run along varying channels and mould the student community according to one's unique tendencies but always in a positive direction.

b) Books on value education and personality development are often distributed among the students free of cost.

c) Swami Vivekananda has emphasized on service to country men as the chief means for character building. The Ramakrishna-Vivekananda Ideal of Service is *Service to man as service to God*. Swami Vivekananda calls upon the youth '*What is life but growth, i.e. expansion, i.e. love? Therefore all love is life, it is the only law of life; all selfishness is death, and this is true here or hereafter. It is life to do good, it is death not to do good to others. Ninety per cent of human brutes you see are dead, are ghosts — for none lives, my boys, but he who loves. Feel, my children, feel; feel for the poor, the ignorant, the downtrodden;..*'. The young students are given a taste of the bliss involved in selfless service and its efficacy in elevating oneself. During the Annual Voluntary Blood Donation Camp, the Annual Eye Operation Camp etc. the students are given a chance to serve the 'Living-God' as manifested in the form of the suffering patient hailing from dire circumstances.

d) The students are often assigned responsibilities for conducting different cultural programmes, preparing wall magazines or poster presentations or exhibitions etc. This arouses the self-confidence of the students and moulds them as leaders for future.

e) Discourses on various spiritual topics are arranged in the Universal Temple of the main campus. The birthdays of luminaries of different religions are celebrated with equal sanctity and devotion. These include the birthday celebrations of Lord Buddha, Jesus Christ, Shri Krishna, Adi Shankaracharya, Shri Ramakrishna, Shri Sarada Devi, Swami Vivekananda and many others. The students have full access to these discussions and to learn about the ennobling features in the lives and teaching of these great ones. On the other side since the Organisation emphasizes the harmony of all religions, Universal brotherhood and reverence towards Teachers of every Religion, hence the spirit of a spiritual Oneness amidst diverse courses of each religion is inculcated among the youth for a much more all-inclusive feeling to develop. This feature is very much pertinent when separatist ideas still create strife among men.

f) Every evening there is congregational prayer and vesper service in the Temple. Interested students participate in it.

g) One of the rare opportunities which the students enjoy is the close contact with the monastic members who try to help them build a strong foundation for their character-building. Often the students come up with several psycho-social complications and seek solutions from the monastic members of the College. The monks too keep a caring vigilance over the students and guide them in path of righteousness. Some of the students have received spiritual instructions from the President or Vice-Presidents of the Ramakrishna Mission and engage themselves in regular meditation.

h) The college library has books on Value Education, Personality Development and Swami Vivekananda; monthly journals on spiritual culture brought out by the Ramakrishna Mission like *Prabuddha Bharata*, *Vedanta-Kesari* etc.; e-books, CDs and DVDs on Personality Development, Education, Spiritual development etc. for giving the students easy access to the rich heritage and the legacy which they bear.

i) All the cultural programmes held in the college have a goal to invigorate the urge for becoming better, enlightened human beings.

j) Festivals like Saraswati Puja, Durga Puja, etc. held in the college and the main campus introduce the students to the rich and deep spiritual heritage of India. The students participate in a colourful procession organized to commemorate the Birth Anniversary of Shri Ramakrishna in which folk artists of rural Bengal take part. This is a novel experience to know the legacy which we bear.

Challenges before us

- The College is affiliated to the West Bengal State University and must mandatorily follow the curriculum as prescribed by the University. Hence there are no opportunities for incorporating value- education as a compulsory subject in the syllabus for a much more detailed discussion on this vital issue.
- In a fast moving age when most of the people are running to grab an opportunity for self-centred pleasure, the issue of character-building and value education seems to be out of context. Keeping apart some exceptions, most of the people abhor ideas like ‘spiritual growth’, ‘character-building’, ‘selfless service’, ‘self-control’ and the like. So many students coming from such a society fail to realize the urgent need to have a strong footing in this arena. As a result only the students who have a genuine thirst for a higher way of life, for a more meaningful path for satisfaction are more benefitted by the arrangements put forth by the college. Rest are either slow learners or remain bound by stagnation with regard to the complete manifestation of the inner wisdom.

5. Evidence of Success

The success in ‘character-building’ programme is undoubtedly a difficult parameter to gauge. Its subtle consequences take time to sprout. However, for the last 50 years, the Institution is trying to sow the seeds of holistic personality development in the fertile grounds of the young minds. Some signs of success may be mentioned in the following terms:

- The healthy interaction between the junior and the senior students without any tinge of ragging or any sort of harassment is a silent evidence for the natural sense of decorum prevalent in the college. This cordial, fearless, helping attitude among the students develops without any specific sermons or anti-ragging campaigns. This may be counted as an achievement where inter-personal relationship need not pass through the test of harassment for gaining acceptance.
- All the students of the college are Day Scholars. They come from far and near to the college every day. As a result they get a chance to mix with the society. So they are able to assess the importance of the values they receive at the college in comparison with the greater societal cross section. They can freely adopt the ideas which they feel is vital for their workaday life. The students understand the difference in the standards which life as such attain by imbibing greatness and how pathetic it becomes when bereft of such a dimension. This they realize more when they step into the wider expanse of the world in future. Occasionally they come to the college years after passing out and express their gratitude for this kind of training for their moral depth.
- The spirit of selfless service which the students imbibe in their college days often grow in dimensions in future. Many of them while pursuing their higher studies or jobs start their own NGOs for serving the society especially the poor and the afflicted. One of our student, Ritwik Bhattacharya, University topper in Mathematics is now pursuing his PhD from the reputed Indian Statistical Institute (ISI), Kolkata. He, along with some other young men have started a NGO, which provide academic assistance to many students coming from extremely constrained financial background even in some remote villages.
- Many of our students who are employed in Pharmaceutical Companies spontaneously come forward to supply medicines and eye drops for our Eye camp. Some of our students donate generously for the betterment of the college.
- Many renowned ex-students of our college when invited for a talk come and emphasise the issue of moral growth to the students which they had once learnt from the college and from the inspiring ideas of Swami Vivekananda. For example, Dr. Shankar Narayan Paul, an ex-student of our college is the recipient of the Padmashri Award for Physics. He, while addressing the students, asserted the importance of Swami Vivekananda’s ideas to the youth. This shows

that academic brilliance and supreme recognition has not made the issue of character-building education meaningless to him but has become much more relevant.

- During the seminars on Swami Vivekananda's ideas, the enthusiasm, participation and interest that has seen in the students once again proved the positive and strengthening impact of these life-giving ideas among the college youth.
- Spirituality and Character building may not be just an alien practice which has nothing to do with one's worldly prosperity. Rather it rouses the maximum power and will force in man and concentrates them towards achievement of any goal which so ever he chooses. So emphasis is laid on self-reliance, self-confidence, fearlessness and practical wisdom for winning over any goal essential for one's life. Examples are plenty, where many of our students hailing from rural and economically backward homes gush forth into the brilliance of excellence in academics, job sectors and other walks of life.
- Last but not the least, the students of the college is a class apart by their politeness, their reverential attitude towards the teachers and elders, by their sincerity and honesty in academic career and by their adherence towards service.

6. Problems Encountered and Resources Required

Problems encountered:

- The society is still not yet unanimous towards the initiation of character-building education system as a vital and urgent requirement. Hence it is the institution alone that stresses the need for such a necessity along with few guardian, teachers and students in favour of such a move.
- The long- lost faith in the efficacy of having an all-square personality with a pure and unselfish character has resulted in many misconceptions regarding issues like happiness, freedom, motivations etc. These have gone to the vitals of the society and have metamorphosed it into a completely different cast. Hence, it is a herculean task to trace back the path along the steep rise to the peak. Thus the Institution must be patient enough to see men of wonderful glory and greatness to bloom out from its lap. Therefore, having lost the background for developing the character on positive lines due to blind imitation, greed for quick pleasures and the lack of true self-respect, few more generations will be needed to revert back to the eternal path of a superior manifestation.

Resources required:

The institution possesses a band of dedicated monks and teachers for invigorating the positive values in the students. Thus, man power is rich in supply. However, if the institution wishes to hold large programmes for instilling the spirit of man-making and character-building say for example seminars, youth conventions, Retreats etc. then financial grants are required.

7. Notes

Few points which are kept in mind while working on this practice:

- a. The growth of Science and Technology and modern developments are never condemned. But rather it is complemented with the science of inner wellbeing and outer welfare of one and all.
- b. The spirit of Universalism and non-sectarianism burns bright in every attempt. The target is to create a harmonious social fabric without any discordant note of separatism.
- c. The revival of the Indian spiritual culture to go beyond the fear of misery, disease and death is the goal.
- d. As opposed to focusing solely on one's own spiritual growth, the institution practices and preaches the path of physical, intellectual and spiritual nourishment of the entire world as vivified by Swami Vivekananda in his dictum -by helping others we help ourselves.

1. Title of the Practice

'A parallel Research wing along with curricular academics'

2. Goal

The institution feels that it is necessary to pursue research along with the regular curriculum to create a deep-rooted academic ambience. The main reason behind it is the common observation that a fixed curriculum with minor changes often leads to stereotyped teaching-learning process. Whereas, research brings about creativity and exploration along newer avenues. For the faculty, research helps them to get greater grasp over the subject and opens the windows to explore the recent findings in the field of science. For the students this offers a glimpse beyond the walls of curriculum. The taste of a few drops trickling down from the research world will motivate them to pursue higher studies and research in Pure Science in future. This is vital for the nation since the students engaged in serious research work in pure science should increase and complement the growth in Technology.

3. The Context

At one point of time, the Institution felt that it possesses many faculty members with hidden research potential. Upon being encouraged several faculty members started pursuing research. Later on with the availability of grants from the Government and Non-Government agencies the laboratory infrastructure and instrumental facility enhanced. Therefore, more and more scopes for research enabled growth along this line.

Challenges:

Research demands a sophisticated infrastructure with expensive instruments and chemicals. For this the institute has to be financially equipped. But receiving research grants at the college level is not at all easy. Hence, in spite of talents, efforts and interests funds pose a threat towards the future of research in the college.

4. The Practice

Research started in the Institution about 20 years back. Some features of research activities and its consequences are given below:

- Every Department has worked on minor research projects.
- The Department of Chemistry and the Department of Botany have major research projects.
- All total 11 Research scholars are working for their Doctoral thesis in the college. Out of them 7 Research scholars are in the Department of Botany and 4 Research scholars are in the Department of Chemistry.
- Till now 4 scholars have completed their Ph. D. research work from the college.
- The thrust areas in major Research Projects are Organic Chemistry, Inorganic Chemistry, Plant Tissue Culture, Mycopathology etc.
- Most of the research projects are funded by UGC, DST etc.
- The college has a well-equipped lab infrastructure for research. A rich collection of sophisticated instruments including HPTLC, UV & IR Spectrophotometers, Fluorometer, Freeze Dryer, Geldoc, Growth Chamber, *Leica* microscopes etc. are supporting the rapid growth of research.
- The research wing has not been kept divorced from the rest of the college curriculum.
 - a) The PG students must work on some project in these research labs.
 - b) Often the Research scholars guide the UG and PG students in Laboratory classes.

- c) The interaction between the UG and PG students with the Research Labs is highly beneficial for developing a creative knack in the subject.
- d) The UGC-Certified Mushroom Cultivation Course is run in the college with the help of the Mycopathology Research lab.
- The findings in the research labs have been able to find a place in peer-reviewed journals.

Limitations:

Due to the shortage in teachers which the college is facing, the faculty members involved in Research need to bear a heavy class load along with research. This hinders much of their focus on research.

The college is bound to follow the syllabus and curriculum framed by the affiliating University at the UG level. At present the curriculum prescribes no lab-based project works as mandatory part of the syllabus. Therefore, it has not been possible to provide any research experience at the UG level.

5. Evidence of Success

The college has been successful in fulfilling its vision of carrying on Research along with curricular academics. Some outcomes of such a pursuit may be difficult to enumerate at this early stage. Yet some important consequences are:

- The college has turned out to be an important centre for research. The publications prove the quality of research.
 - Some of our faculty members have patent over their research outcomes. For e.g. In Plant Tissue Culture Lab some of the rice varieties have received recognition from NCBI and has received unique NCBI accession numbers.
 - Research scholars from other reputed Institutes come to our research labs for summer projects or for using our instrumental facility.
 - Several collaborative research schemes are active with other Research Institutes.
 - Four Research scholars have already been awarded the Doctoral Degree.
 - Retention of many faculty members with research aptitude has been possible by this well-established research facility in the college.
 - The college is self-sufficient to carry on PG project works at the college itself with the support of the Research Labs.
 - Unlike typical Research Institutes, the Research scholars get a chance to guide the UG and PG practical classes which gives them a teaching experience.
- In this way the institution is achieving the target of an interactive research wing for creative academics and enriched UG-PG courses.

6. Problems Encountered and Resources Required

- The main crisis felt in the field of research is the financial crunch. With exorbitantly expensive instruments, chemicals and reagents the smooth and unhindered research work at college level at times comes into question.

7. Notes

The long tradition of research in the college has given the institution confidence and glory. In spite of regular UG and PG courses the faculty members engage in research work to increase the perimeter of their knowledge and to bring the students into the light of the ever-expanding arena of science.