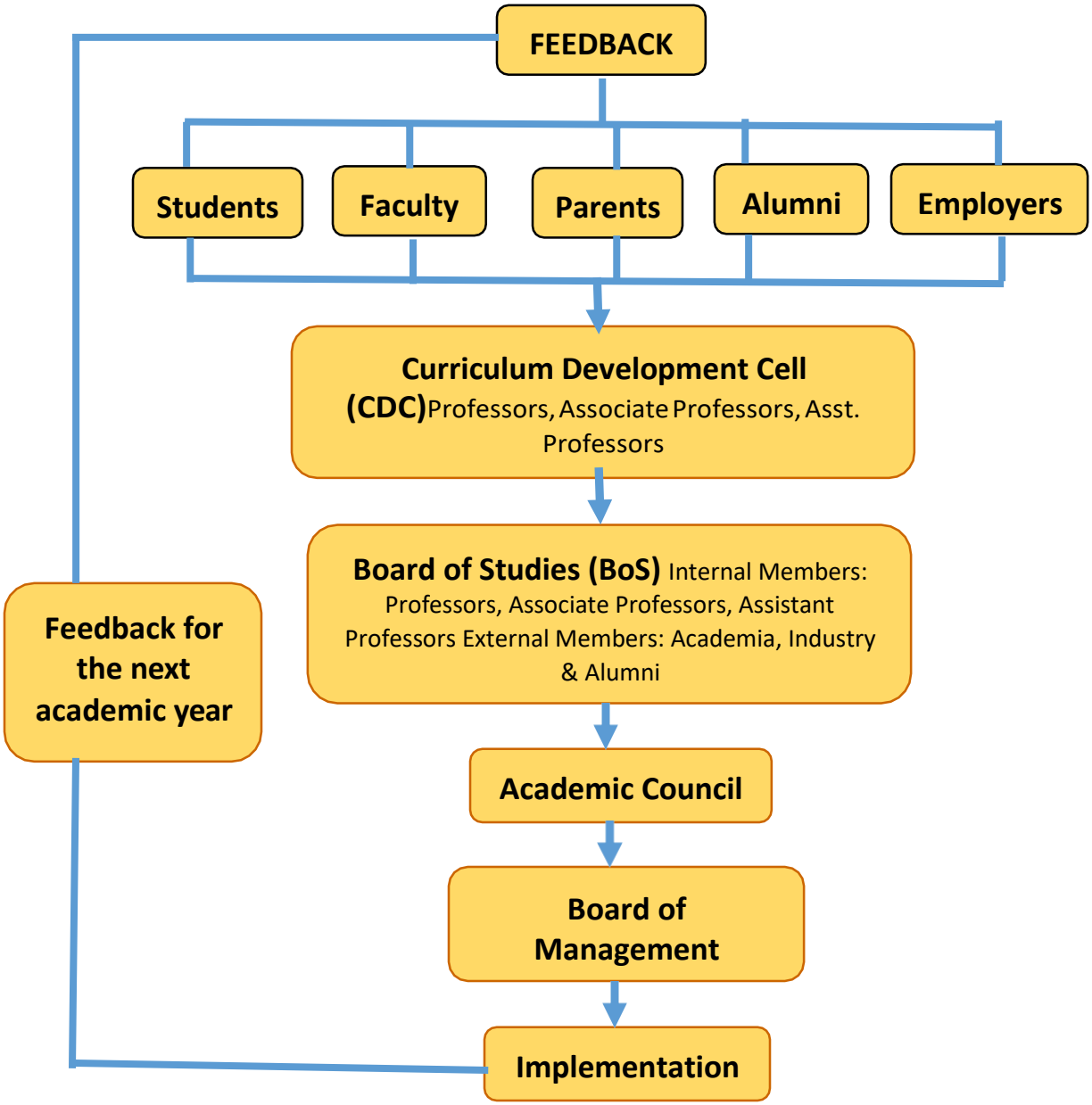
PROCESS ON CURRICULUM DESIGN

In order to enrich the curriculum and syllabi, statutory meetings like Board of Studies, Academic Council and Board of Management are conducted twice a year. During this enrichment process, feedback on the curriculum & syllabi from various stakeholders like students, faculty members, parents, alumni and employers are obtained through structured feedback forms. Based on the feedback, Curriculum Development Cell (CDC) will analyse and consolidate the changes required in the courses and syllabi.

The CDC minutes which highlights the changes incorporated based on the feedback analysis report will be presented in the Board of Studies (BoS) meeting. BoS will thoroughly scrutinize the entire curriculum & syllabi and carryout the necessary changes in the curriculum & syllabi.

The HoDs concerned will present the salient features of the proposed changes in the curriculum and syllabi and move the resolutions in the Academic Council. The suggestions given by the Academic Council will be incorporated by the HoDs and the minutes of the Academic Council will be presented to the Board of Management for review and approval. The process flow chart is given below.



DEPARTMENT OF CIVIL ENGINEERING

FEEDBACK FROM STAKEHOLDERS AND ACTION TAKEN

(2019-20)

The department has formal and informal mechanisms to obtain feedback from stakeholders through various committees, associations and organizations, etc.

1. a. Employers Feedback

- Recruiters expressed that they are fully satisfied about the healthy environment, infrastructure
- Requested to include filed oriented laboratory in the syllabus
- The recruiters appreciated that the students are good in soft skills.

1. b. Parents Feedback

- Requested to give exposure in the area of personality development
- Requested to include field oriented subjects

1. c. Students Feedback

- Students requested for more field visits
- Students requested for Industrial training

1. d. Alumnus Feedback

- Alumnus expressed that they are fully satisfied about the healthy environment, infrastructure, well-established lab facilities, industry trained faculty members in the department of Civil Engineering.
- Requested to include subject ENGINEERING SOLUTIONS FOR REAL WORLD

Feedback : Employer

Karunya Institute of Technology and Sciences
(Deemed to be University under sec. 3 0f UGC act 1956)

Dear Sir/ Madam,

We shall very much appreciate and be grateful to you. if you can spare some of your valuable time to fill up this feedback form. This data will be kept confidential and will be used only for assessment of the alumni performance for the improvement of our program.

Employer Feed Back

Name of the Graduate: Saravana Kannan
Company: Sakthi India Pvt. Ltd.
Position:
Number of years in the company: 3

Sl.. No	Assessment Criteria	Rating				
		5 (Excellent)	4 (Very Good)	3 (Good)	2 (Average)	1 (Needs Improvement)
1	Communication Skills	✓				
2	Understanding the workplace problems and identification of effective solutions	✓				
3	Work as a part of team	✓				
4	Planning and organizing skills	✓				
5	Application of fundamental knowledge in problem solving		✓			
6	Attitude of life-long learning and continuous improvement	✓				
7	Ethical responsibility and service to society	✓				
8	Use of information and communication technology and equipment	✓				
9	Innovation and creativity	✓				
10	Commitment, sincerity and integrity	✓				

Field & relevant Lab may be introduced

Signature of the Employer/Representative
Designation : Site Eng.
Phone Number/ email id : 9476678070

Date: 9.8.2019
Seal :

Parents Feedback

Karunya

(Deemed to be University)

DEPARTMENT OF CIVIL ENGINEERING

(NBA Accredited)

Parent's Feedback Form

Dear Parent,

We shall be very much grateful if you can spare some of your valuable time to fill up this feedback form. It would help us in our efforts to contribute the best talent to the society in terms of qualified and morally upright Engineers.

-HoD/Civil

Name of your ward	Sagaya Sheela	Reg No	URK18CE014
Programme	Civil Engg.	Year	2nd

S.No	Assessment Criteria	4 point scale: 4 Strongly agree	3 Agree	2 No comments	1 Disagree
1	I often interacted with my ward and Department / Institute staff to find out his / her academic progress	✓			
2	The Student's discipline in the Institute is good	✓			
3	The atmosphere in the Department / Institute is conducive for good living and learning	✓			
4	There is a positive change in the behaviour of my ward after joining the Institute	✓			
5	The Curriculum of the Civil Engineering Programme is well designed and incorporates latest topics for better employability	✓	✓		
6	The Department / Institute helped my ward to develop Communication & Technical Skills	✓			
7	The Department library / Central Library of the Institute is equipped with latest books and facilities for self -learning	✓			
8	Teaching - Learning process in Karunya is useful to make student Industry ready	✓			
9	Hostel accommodation and food in the mess is good and well maintained with all amenities		✓		
10	The Institute has good Sports & Games facilities	✓			
11	The Medical facilities provided at the Institute are good	✓			
12	Interested to contribute to the Department 1. Guest Lecture - Yes / No 2. Industrial Training- Yes / No 3. Placement- Yes / No 4. Industrial Visit- Yes / No				

Any other comments or suggestions for improvement:

Field Based Subjects.

	Father	Mother	Guardian
Name		Sheela	
Mobile No.		7376768810	
Occupation			
Email Id			
Address for communication		Permanent Address	

Alumni Feed back

Karunya Institute of Technology and Sciences
(Deemed to be University under sec. 3 0f UGC act 1956)

Date : 9.8.2019

Alumni Feed Back

Name of the Student: John Victor | Reg. No.: URK19CE017

Current Position: Business | Batch : 2019

Sl. No	Assessment Criteria of KU Alumnus	Rating				
		5 (Excellent)	4 (Very Good)	3 (Good)	2 (Average)	1 (Needs Improvement)
1	Improvement in Communication Skills	✓				
2	Ability to appreciate workplace problems and suggest solutions	✓				
3	Event planning, organization, team play and leadership	✓				
4	Knowledge on communication technology and software		✓			
5	Innovation and creativity	✓				
6	Strong foundation in fundamentals	✓				
7	Motivation to lifelong learning		✓			
8	Ethical and social responsibility		✓			
9	Relevance of curriculum in addressing societal needs	✓				
10	Personality development and character building	✓				
	Total					

Subject like Engg. Soln for real world can be included.

9.8.2019.

Signature of the Alumni with date

Action taken: Annexure I

Feedback : Field Oriented subject

19CE2004	FIELD PRACTICES – III (Smart Materials and Systems)	L 0	T 0	P 1	C 0.5

Course Objectives:

1. To understand the smart materials available in market
2. To identify the use of smart material in civil applications
3. To understand the use of smart materials for civil applications

Course Outcomes:

Student will be able to

1. Identify the smart materials for civil applications.
2. Use Smart material for various HVAC systems
3. Develop smart systems for electronic items
4. Develop smart systems for electrical items
5. Develop a smart systems for services
6. Develop a smart home integrating the components

Descriptions:

1. To identify the various smart materials and sensors that can be used for buildings
2. Develop a smart room for weather mapping and HVAC systems
3. Develop the smart room for lighting control
4. Develop the smart room to control doors ,Electronic gadgets,
5. Develop a system to monitor water levels
6. Develop a system to automatically control motor

Reference Books:

1. A. H Robbins, W.C. Miller, "Circuit Analysis: Theory and Practice", Fifth Edition, Delmar. Cengage Learning, New York, 2013.
2. Robert B, Northrop, "Introduction to Instrumentation and Measurements", CRC press, Taylor and Francis group, Second Edition 2011
3. J Larminie J, Lowry, "Electric Vehicle Technology Explained", John Wiley, & Sons, New York 2013
4. Haitham Abu-Rub, Mariusz Malinowski, Kamal Al- Haddad, "Power Electronics for Renewable Energy Systems, Transportation and Industrial Applications, John Wiley & Sons Limited, Sussex, 2014.
5. Robert L. Boylestad and Louis Nashelsky, "Electronic Devices & Circuit Theory", 11th Pearson new International Education, 2013.

Action taken: Annexure I

Feedback : Field subject

19CE2005	ENGINEERING SOLUTIONS FOR REAL WORLD PROBLEMS	L	T	P	C
		1	0	4	3

Course Objectives

1. To help students to identify the need for developing newer technologies for industrial / societal needs
2. To train students to propose and implement relevant technology for the development of the prototypes / products
3. To make the students to learn the use the methodologies available for analysing the developed prototypes / products

Course Outcomes

At the end of the course, the student will be able to

1. Identify real life problems related to society
2. Formulate the objectives for the problem identified
3. Formulate the methodology for the problem
4. Design the components/solution procedure
5. Fabricate/Analyze the components/solution
6. Evaluate the efficiency of the developed solutions

Modules of the course

1. Identification of real life problems
2. Field visits can be arranged by the faculty concerned
3. 4-5 students can form a team
4. Minimum of four hours on self-managed team activity
5. Appropriate scientific methodologies to be utilized to solve the identified issue
6. Solution should be in the form of fabrication/coding/modeling/product design/process design/relevant scientific methodology(ies)
7. Consolidated report to be submitted for assessment
8. Project outcome to be evaluated in terms of technical, economical, social, environmental, political and demographic feasibility

References:

1. Kristi Lew, "Solving Real World Problems with Environmental and Green Engineering", Britannica Educational Publishing, 2015.
2. Maja Bystrom, Bruce Eisenstein, "Practical Engineering Design", CRC Press, 2017.

Action taken: Annexure I

Feedback : Field Lab

19CE2008	FIELD PRACTICES – VI (BUILDING INFORMATION MODELLING)	L	T	P	C
		0	0	1	0.5

Course Objectives

1. To understand the principles of BIM
2. To make the students familiarize with the use of REVIT BIM

Course outcomes

1. Use tools of the software to create models
2. Model the components of the buildings
3. Model the non-structural components in buildings
4. Apply the materials to the model.
5. Create schedules for the models
6. Crete walkthrough of the models developed

Experiments

1. Introduction to Revit Software & the workflow of BIM
2. Modelling of Walls and to Floors
3. Modelling of Roofs and Adding Structural Component
4. Modelling of Staircase and Creating Ramps & Railings
5. Placing of Components and Modelling Components In-Place
6. Material Management and Working with Sections
7. Creating Ceilings and Including Night lights in the project
8. Modelling the Site and Creating Schedules
9. Working with Conceptual Mass and Rendering the Views
10. Creating a Walkthrough video and Documentation work

Reference Books:

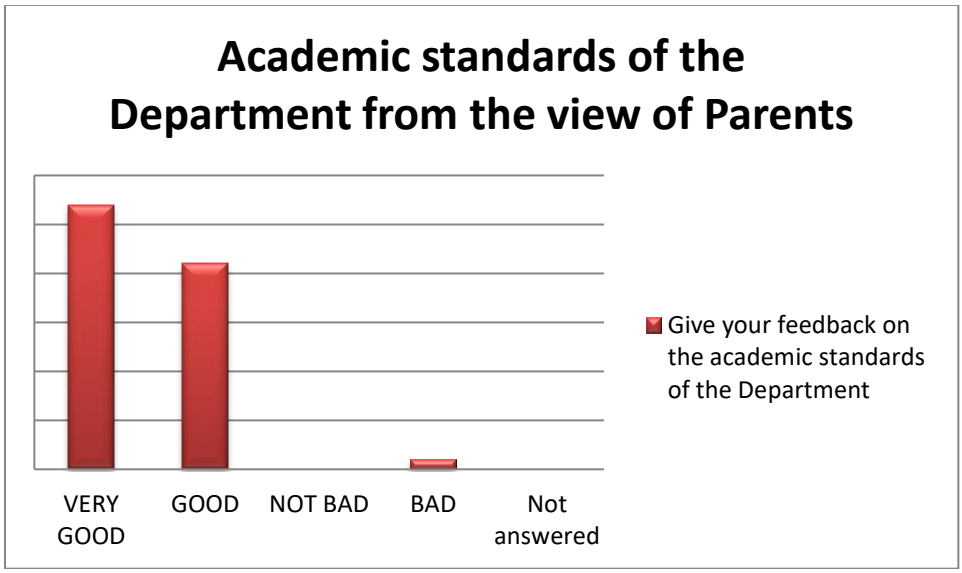
1. ASCENT, Autodesk Revit 2021 Structure Fundamentals, 2020, SDC Publications
2. Elise Moss, Autodesk Revit 2021 Architecture Basics,2020, SDC Publications
3. Jeff Hanson, Daniel John Stine AIA, CSI, CDT, Autodesk Revit 2021 Architectural Command Reference, 2020, SDC Publications

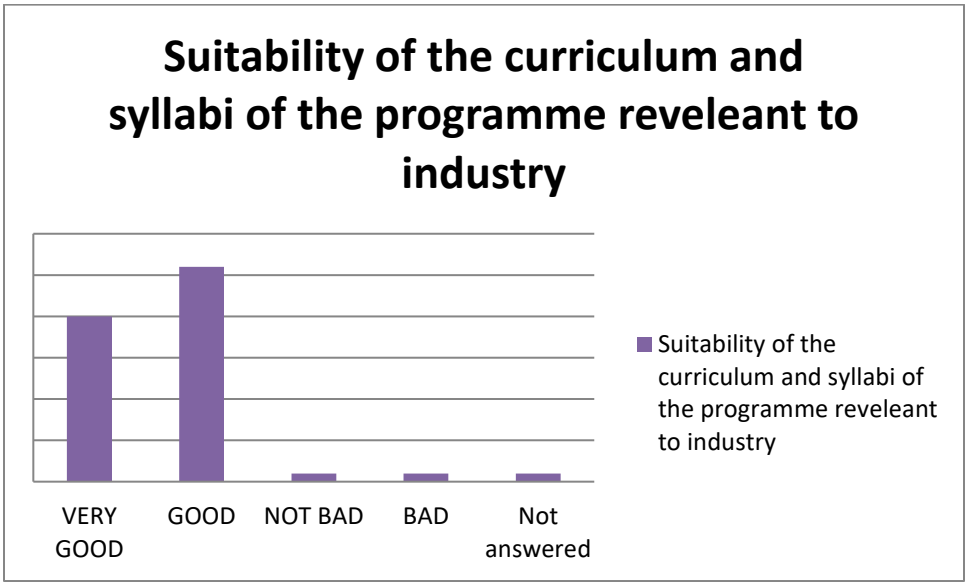
Action taken: Annexure II

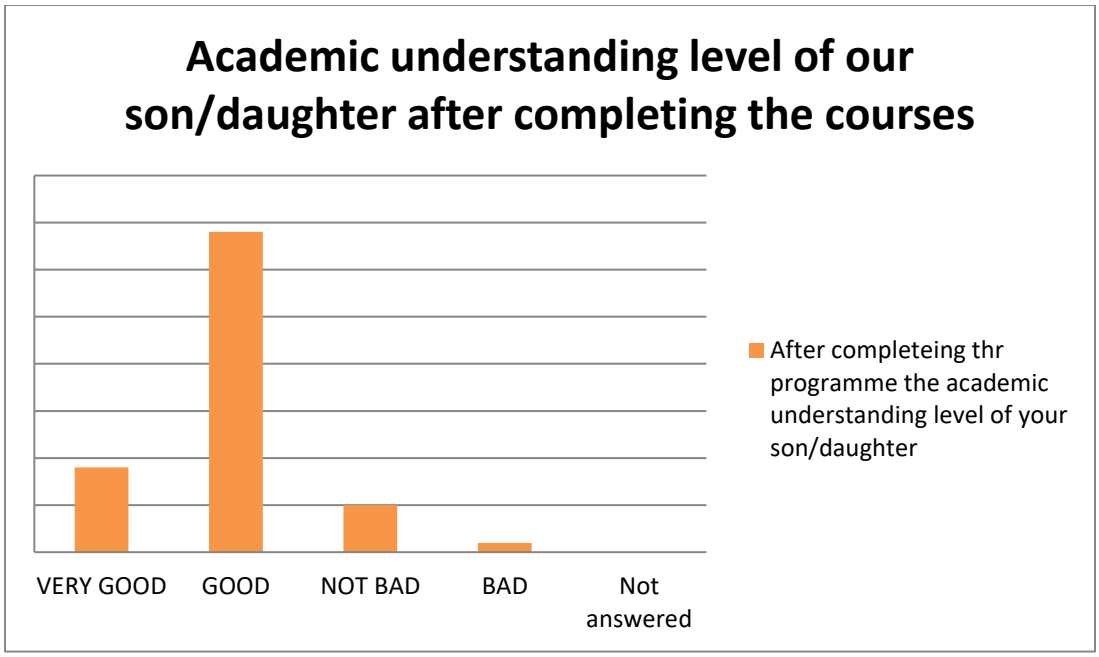
FEEDBACK ANALYSIS 2019-20

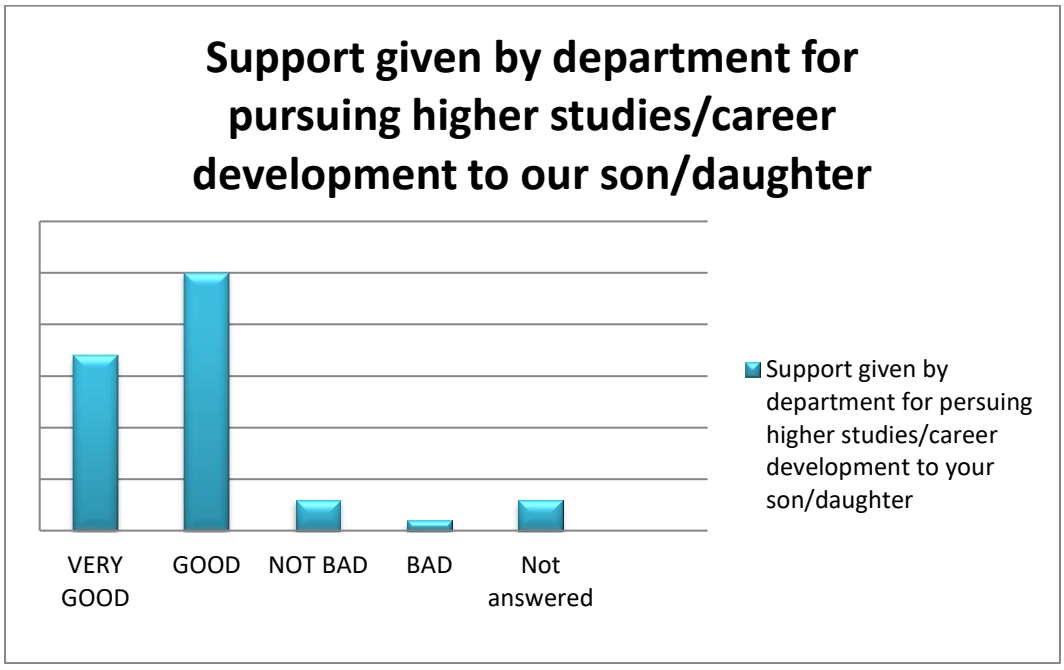
The feedback from the parents, employers, alumnus, students and faculty members are analyzed using various criterions and evaluated below.

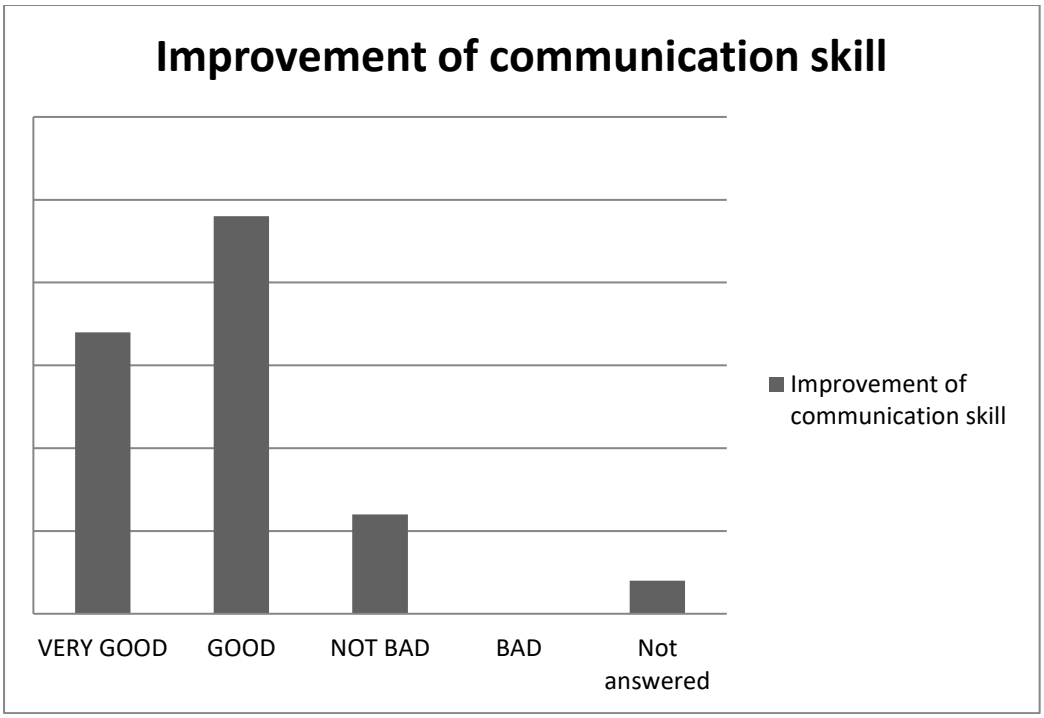
Number of parents participated; approximately 68
Filled in feedback received; 24

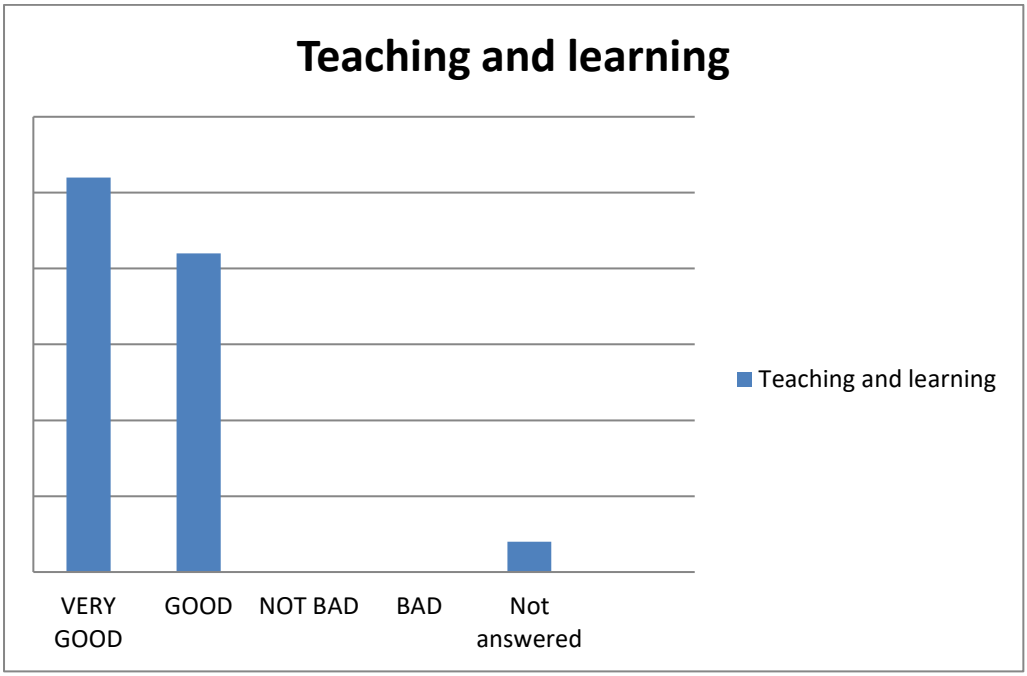





Academic understanding level of our son/daughter after completing the courses
VERY GOOD
GOOD
NOT BAD
BAD
Not answered
After completeing thr programme the academic understanding level of your son/daughter

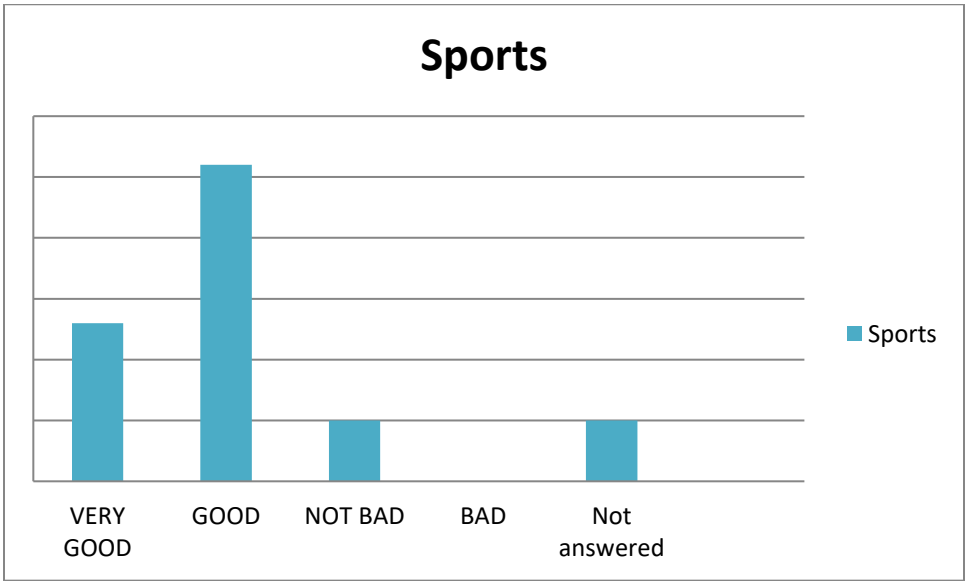

Support given by department for pursuing higher studies/career development to our son/daughter
VERY GOOD
GOOD
NOT BAD
BAD
Not answered
Support given by department for persuing higher studies/career development to your son/daughter

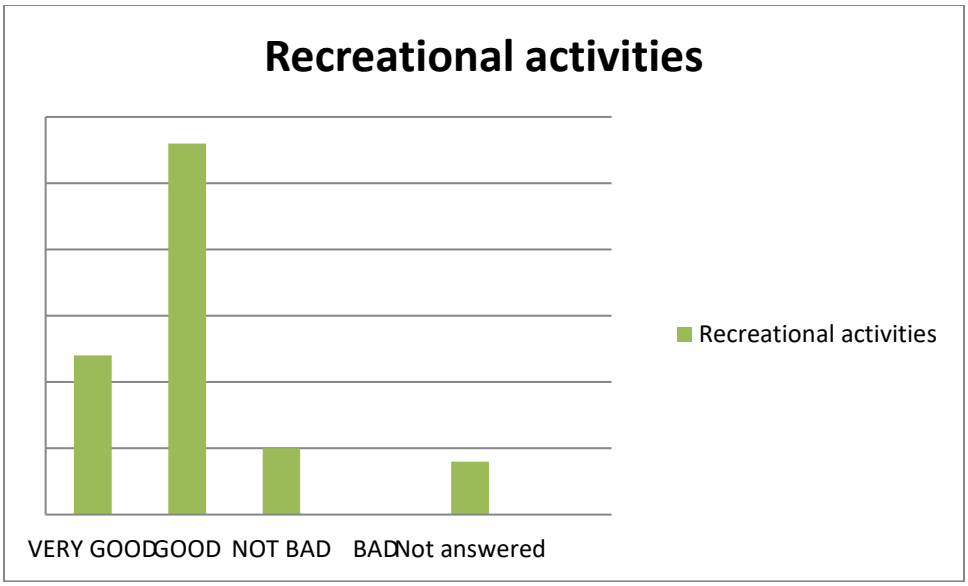

Improvement of communication skill
VERY GOOD
GOOD
NOT BAD
BAD
Not answered
Improvement of communication skill


Teaching and learning
VERY GOOD
GOOD
NOT BAD
BAD
Not answered
Teaching and learning


Placement
VERY GOOD
GOOD
NOT BAD
BAD
Not answered
placement


Hostel and mess
VERY GOOD
GOOD
NOT BAD
BAD
Not answered
Hostel and mess


Sports
VERY GOOD
GOOD
NOT BAD
BAD
Not answered
Sports


Recreational activities
VERY GOOD
GOOD
NOT BAD
BAD
Not answered
Recreational activities