

7.2 Best Practices



THAMIRABHARANI ENGINEERING COLLEGE

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Chathirampudukulam, Chidambaranagar - Vepemkulam Road
Thatchanallur, Tirunelveli 627 358, Tamil Nadu.

CRITERIA 7.2 BEST PRACTICES

Title of the Practice: Activity Based Learning (ABL) – Learning by Doing

Activity Based Learning (ABL) is a major quality initiative introduced in Thamirabharani Engineering College. It is based on the pedagogical principle of learning through activities. The ABL initiative aimed, most importantly, changing the role of our teachers to that of facilitators. ABL is implemented in the eighth hour of all classes daily. Students in ABL classes use a variety of learning methods by conducting various activities such as puzzle Solving, Extempore, Newspaper reading, Group discussions, Quiz and so on.

Teaching-learning in ABL is meant to be Student-centered, our teachers act as facilitators and students work with groups and move from the teacher-supported group to the self-evaluation group. In ABL, each student monitors his or her own learning and gets support from peers.

Objectives:

TEC encouraged this method by having the following objectives:

- To observe the interaction of students
- To observe the voluntary participation of students
- To find out what the student knows or be able to do

Context:

In each activity, under ABL, the competencies are split into different parts or units called milestones that are developed into different activities. These milestones and activities are arranged in a logical sequence from simple to complex. Clusters of milestones are linked together into ladders. Each milestone has different steps of the learning processes represented by logos having six types of activities viz., introduction, practice, reinforcement, self-assessment or evaluation, remedial and enrichment activities. Qualitative Initiatives pointed to several non-academic outcomes associated with the ABL initiative. These included greater self-confidence, increased motivation and less fear of teachers and exams among students; improved student-teacher relations; better cooperation among students; increased teacher involvement; a greater focus on Student-centered practices.

Practice:

Mostly the classroom practices were highly teacher dominated and involved rare use of ABL method. Our college found out that great emphasis was placed on rote learning, and lecture


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mode was the common practice adopted by teachers who assumed that students did not know anything and needed to be taught everything by teachers. It was assumed that students learn at a uniform pace and achieve curricular competencies uniformly. It was also found that the existing classroom practices did not offer a range of opportunities to the learners as there was an implicit assumption that each student learnt in the same way.

There was a wide gap between teacher's expectations and student's learning. Also observed that when students were absent for a few days, there was no way for them to recover the loss of learning during the period of absence. There was no joyful learning and neither any scope for self, peer and group learning. Also the students were not exposed to modern ways of assessment. Hence, there was a need for an approach having learning processes that would offer scope for diverse learning styles, intelligences and abilities.

Evidence of Success:

Thamirabharani Engineering College (TEC) conducted Training programmes for the college Activity Committee Members later with their support to all the faculty members of our college. The Activity Committee Members share their experience through demonstrating ABL activities. Training programmes were conducted, based on specific content to enrich ABL activities and enhance the teacher's performance in implementing the ABL methodology.

Training was focused on conducting Group Discussions, solving Puzzles, Brain Storming, use of self-learning material and so on. Follow-up activities after training were provided through regular visits by the Activity Committee Members daily in the eighth hour. Our Principal, after the visits, organize review meetings, and discuss records being maintained by the committee.

Thus TEC strongly believes that ABL provides rich and varied experiences to the students, thereby building their knowledge, boosting creativity skills and increasing cognitive skills. In addition, the self-confidence of students is boosted as they explore both familiar and unfamiliar concepts in creative ways.

It is based on the pedagogical principle of learning through activities. The ABL initiative aimed, most importantly, changing the role of our teachers to that of facilitators. ABL is implemented in the eighth hour of all classes daily. Students in ABL classes use a variety of learning methods by conducting various activities such as puzzle Solving, Newspaper Reading, Quiz, and so on.

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Activity Committee Members

S. No	Name of the Staff
1	Ms. S. Merlin AP/ S&H
2	Mr. S. Selva kumar AP/S&H
3	Mr. R. Ramar Kalangiyam AP/ ECE

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Fig. 1. Instructions given by Activity committee members


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Fig. 2. Instructions given by Activity committee members



Fig. 3. Instructions given by Activity committee members


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LIST OF ACTIVITIES

S. No	ACTIVITIES	DOCUMENT LINK
1.	QUIZ	<u>QUIZ</u>
2.	PUZZLES SOLVING	<u>PUZZLES SOLVING</u>
3.	EXTEMPORE	<u>EXTEMPORE</u>
4.	MOTIVATION SPEECH	<u>MOTIVATIONAL SPEECH</u>
5.	GROUP DISCUSSION	<u>GROUP DISCUSSION</u>
6.	MOCK INTERVIEW/INTERVIEW QUESTIONS DISCUSSION	<u>MOCK INTERVIEW</u>
7	TAMIL POEM WRITING/PICTURE AND STORY NARRATION/	<u>POEM WRITING /PICTURE AND STORY NARRATION</u>
8	NEWSPAPER READING	<u>NEWSPAPER READING</u>

OUTCOME:

Instead of transmitting information to the student as is commonly done in a lecture, activity-based learning provides students a way to experience and interact with ideas and information. Because activity-based learning connects students with real world practical problems, it increases student engagement. The benefits to using activities are many, including improved critical thinking skills, transfer of new information, increased motivation, improved interpersonal skills and improved job placement.

ACTIVITIES	DOCUMENT LINK
<u>Additional Information</u>	<u>Placement Details</u>



THAMIRABHARANI ENGINEERING COLLEGE
 Thatchanallur - 627358
TIME-TABLE for EVEN SEMESTER (2019-20)
FIRST YEAR

w.e.f. 06/01/2020

BRANCH/SEM: ECE II

DAY/HOUR	I (09.00 - 09.45)	II (09.45 - 10.30)	(10.30 - 10.45)	III (10.45 - 11.30)	IV (11.30 - 12.15)	(12.15 - 12.55)	V (12.55 - 01.40)	VI (01.40 - 02.25)	VII (02.25 - 03.10)	VIII* (03.20 - 04.05)
MONDAY	ED(PSS)	ENG(RR)	BREAK	MAT(PK)	MAT(PK)(T)	LUNCH BREAK	CA(AM)	CA(AM/EP)(T)	ED(PSS)	ACT (EP)
TUESDAY	MAT(PK)	CA(AM)		PHY(VB)	PHY(VB)		BEIE(EP)	BEIE(EP)	ENG(RR)	BEIE(EP)
WEDNESDAY	EPL (EP/NS)		EPL (EP/NS)		CD LAB (PSS/SK)		CD LAB (PSS/SK)		CD LAB (PSS/SK)	
THURSDAY	CA(AM)	CA(AM)	ED(PSS)	ENG(RR)	ENG(RR)	PHY(VB)	BEIE(EP)	ENG(RR)	BREAK	
FRIDAY	ED(PSS)	ED(PSS)	ENG(RR)	MAT(PK)	MAT(PK)	PHY(VB)	MAT(PK)	BEIE(EP)	ACT (RR)	ACT (RR)
SPECIALDAY	ENG(RR)(T)	CA(AM/AAM)(T)	MAT(PK)(T)	MAT(PK)(T)	MAT(PK)(T)	ACT (VB)	ACT (RR)	ACT (PK)	ACT (VB)	

T-Tutorial * : Browsing/Library/NPTEL/Brain Storming/ PPT/Quiz/Class test/Coaching/Fundamentals work shop ACT:Activity, Sport
 M - T

SUB CODE	SUBJECT	FACULTY NAME
HS8251	TECHNICAL ENGLISH	Dr. R. RAJAKUMARI(RR), P/ENGLISH
MA8251	ENGINEERING MATHEMATICS-II (T)	Ms. P. KANAGAVALLI(PK), AP/MATHS
PH8253	PHYSICS FOR ELECTRONICS ENGINEERING	Ms. V. BURVIN LEELA(VB), AP/PHYSICS
BE8254	BASIC ELECTRICAL & INSTRUMENTATION ENGINEERING	Mr. E. PERUMAL(EP), AP/EEE
EC8251	CIRCUIT ANALYSIS (T)	Mr. A. MARIMUTHU(AM), AP/EEE, Mr. A. ARUN MUTHARASU(AMA), AP/EEE, Mr. E. PERUMAL(EP), AP/EEE
EC8252	ELECTRONIC DEVICE	Ms. P. SARAVANA SELVI(PSS), AP/ECE
EC8261	CIRCUITS AND DEVICES LABORTORY	Ms. P. SARAVANA SELVI(PSS), AP/ECE, NEW STAFF, AP/ECE
GE8261	EINGINEERING PRACTICE LABORATORY	Mr. E. PERUMAL(EP), AP/EEE, NEW STAFF(MECH) <i>Nig</i>

TIME TABLE INCHARGE
M. J. J. J.
 06/01/2020

COORDINATOR

PRINCIPAL

THAMIRABHARANI ENGINEERING COLLEGE
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FIRST YEAR

BRANCH/SEM: MECH II

w.e.f. 06/01/2020

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	PHY(SSK)	PHY(SSK)	PHY(SSK)	PHY(SSK)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	ENG(RR)	ENG(RR)	ENG(RR)	ENG(RR)	ENG(RR)	ENG(RR)	ENG(RR)	ENG(RR)
MONDAY	PHY(SSK)	PHY(SSK)	PHY(SSK)	PHY(SSK)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	ENG(RR)	ENG(RR)	ENG(RR)	ENG(RR)	ENG(RR)	ENG(RR)	ENG(RR)	ENG(RR)
TUESDAY	BEEIE LAB(EP/SAM)	BEEIE LAB(EP/SAM)	BEEIE LAB(EP/SAM)	BEEIE LAB(EP/SAM)	BEEIE LAB(EP/SAM)	BEEIE LAB(EP/SAM)	BEEIE LAB(EP/SAM)	BEEIE LAB(EP/SAM)	EVS(RS)	EVS(RS)	EVS(RS)	EVS(RS)	EVS(RS)	EVS(RS)	EVS(RS)	EVS(RS)
WEDNESDAY	MAT(RK)	MAT(RK)	MAT(RK)	MAT(RK)	ENG(RR)	ENG(RR)	ENG(RR)	ENG(RR)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)
THURSDAY	EPL (AK/ NS/ASK)	EPL (AK/ NS/ASK)	EPL (AK/ NS/ASK)	EPL (AK/ NS/ASK)	EPL (AK/ NS/ASK)	EPL (AK/ NS/ASK)	EPL (AK/ NS/ASK)	EPL (AK/ NS/ASK)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)	BEEIE(EP)
FRIDAY	ENG(RR)	ENG(RR)	ENG(RR)	ENG(RR)	MAT(RK)	MAT(RK)	MAT(RK)	MAT(RK)	EVS(RS)	EVS(RS)	EVS(RS)	EVS(RS)	EVS(RS)	EVS(RS)	EVS(RS)	EVS(RS)
SPECIALDAY	MAT(RK)	MAT(RK)	MAT(RK)	MAT(RK)	ENG(RR)	ENG(RR)	ENG(RR)	ENG(RR)	ACT (SSK)	ACT (SSK)	ACT (SSK)	ACT (SSK)	ACT (SSK)	ACT (SSK)	ACT (SSK)	ACT (SSK)

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PH8251	MATERIAL SCIENCE	Mr. S.SELVAKUMAR(SSK), AP/PHYSICS
BE8253	BASIC ELECTRICAL, ELECTRONICS & INSTRUMENTATION ENGINEERING	Mr. E.PERUMAL(EP), AP/EEE
GE8291	ENVIRONMENTAL SCIENCE AND ENGINEERING	Ms. R.SARANYA(RS), AP/CHEMISTRY
GE8292	ENGINEERING MECHANICS (T)	Mr. M.KARPAKARAJ(MK), AP/MECH. NEW STAFF, AP/MECH.
BE8261	BASIC ELECTRICAL, ELECTRONICS & INSTRUMENTATION ENGINEERING LABORATORY	Mr. E.PERUMAL(EP), AP/EEE, Mr. A.MARIMUTHU(SAM), AP/EEE
GE8261	ENGINEERING PRACTICE LABORATORY	Mr.S. ARUMUGA KANI(AK), AP/EEE, NEWSTAFF (MECH), Mr. A. SAM KINGSLEY (ASK) AP/EE

A/10/2020
Principal

R. Rajakumari
Principal
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TIME TABLE INCHARGE

ATTENDANCE
8th hour - Activity hour

Sl Roll No.	Register No.	Name	Month	Aug			sep		oct		Nov		
			Date	9	26	9	16	23	14	21	29		
			Period	8	8	8	8	8	8	8	8		
1	4001	Aby Shekar		1	a	1	1	1	a	a			
2	4002	Ajith .R.		1	1	1	1	1	1	1			
3	4003	Amarnath .T		1	1	1	1	1	1	1			
4	4004	Anandhan .S		1	a	a	a	1	a	a			
5	4005	Arokia vijaya Raj .M		1	1	1	1	1	1	1			
6	4006	Arumugakani .V		1	1	1	1	1	1	1			
7	4007	Aruna .S		1	1	a	1	1	1	a	1		
8	4008	Bala Krishnan .E		1	1	1	1	1	a	1	1		
9	4009	Boothathar @ Balaji .R		1	1	1	a	1	1	1	1		
10	4010	Gokula kanna .P		1	a	1	a	1	1	1	1		
11	4011	Kavi vignesh .c		1	1	1	1	1	1	1	1		
12	4018	Marivel Murugan		1	1	a	1	a	a	a	a		
13	4012	Manikanda Prabhu .P		1	1	1	1	1	1	1	1		
14	4013	Manoj Kumar .R.		1	1	1	1	1	a	a	a		
15	4015	Maria Joshva .E		1	1	1	1	1	1	1	1		
16	4016	Mariappan .v		1	a	a	a	a	a	a	a		
17	4017	Mari Selvam		1	1	1	1	1	1	1	1		
18	4014	Maria Athish .A		1	1	1	1	1	1	1	1		
19	4019	Murugan .S		1	a	1	1	1	1	1	1		
20	4021	Muthu Putthiavan .A.		1	1	1	1	1	1	1	1		
21	4020	Muthu .R.		1	1	1	1	1	1	1	1		
22	4022	Muthu Sivan .M.		1	1	1	1	1	1	1	1		
23	4023	Partha Sarathy .R.		1	a	a	a	1	a	1	a		
24	4024	Raja .M		1	1	1	1	1	1	1	1		
25	4025	Ram Kumar .M		1	1	1	a	1	1	1	1		
26	4026	Samuel .k		1	a	a	a	1	1	a	a		
27	4027	Sathya .S		1	1	1	1	1	1	1	1		
28	4028	Siva Prakash .S		1	a	1	1	a	1	1	1		
29	4030	Siva Saktinathan .		1	a	a	a	1	1	1	1		
30	4029	Sivanama Boothathik		1	1	1	a	1	1	1	1		
31	4031	Sri Ram Kumar .k		1	1	a	1	1	1	1	1		
32	4032	Sudali Mari .M.		1	1	a	1	1	1	1	1		
33	4033	Sunder .M		1	1	1	1	1	1	a	1		
34	4034	Thanga Anand .B		1	1	1	1	1	1	1	1		
35	4035	Uthaya Sankar .M		1	1	1	a	1	1	1	1		
36	4036	Vaikunda Manikumar		1	1	1	1	1	1	1	1		
37	4037	Vel Raja .M		1	a	a	a	a	a	a	a		
No. of Absentees					-	9	11	11	4	7	10	7	
Initial of the Faculty													

9/18/2018
29/8
9/19/2018
6/9/2018
15/11

15/11

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FABBARANI ENGINEERING
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Chennai
15/11/2018