



Best Practice- 1

1. **Title of the Practice: Bridge Course 'Basic Electronics'**

A bridge course is a type of educational program that helps students transition from one educational level to another. The purpose of a Bridge Course is to help students by developing their academic skills and knowledge for moving to higher level of study. Bridge courses typically provide students with the skills and knowledge they need to be successful in their new educational setting. A bridge course is designed to provide students with a solid foundation in the basic academic skills and knowledge they need to succeed in their college studies. A bridge course for newly admitted students is conducted every year before the commencement of the first semester classes. The main objective of the course is to bridge the gap between subjects studied at Pre-university level and subjects they would be studying in Graduation. The syllabus for the course is framed in such a way that they get basic knowledge on the subjects which they would be learning through graduation.

Objectives of the Practice:

- Introduce necessary basics of the subject.
- Strengthening the foundation of the subject.
- Generating and enhancing interest in the subject
- Generate confidence and skills to successfully transit to new curriculum

The Context:

Students coming from 12th Science to First year B. Sc. have many options of subjects to choose from. Students have liking for Electronics as a subject which is having more career opportunity as well as is necessary for Computer Science also. During introduction lectures for First year Teachers observed that student select Electronics as one of the subjects but they lack basic knowledge of the subject. Teachers felt need to design a Bridge course in 'Basic Electronics'.

The Practice:

A Curriculum is framed separately for Bridge Course. During the first week after the commencement of the classes, teachers appeal the students to join the 'Bridge Course', as it is conducted in the initial days of the semester. use college-level materials and provide instruction and ample practice in basic academic skills. The course is offered over the minimum duration. Syllabus and Time Table of the course is provided to the students. Teachers use college-level materials and provide instruction and ample practice in basic academic skills. Previously it used to be conducted offline mode but now it is online mode of teaching. A post bridge course test is conducted after the completion of bridge course syllabus to assess the ability of student's suggestions are given to students for improvisation.

Evidence of Success:

Performance of regular Bridge course students is far better than those not attending the course. Most of the students score well in the final examination. They find it helpful to opt for special subjects like Electronics or Computer Science.

Problems Encountered and Resources Required

Sometimes there is time constrained for teachers and students as time table of First year is very packed. After shifting to online mode of teaching the problem is quite resolved. But, the students face connectivity problem.

R,S,S.P.Mandal Ltd. Chalisgaon Dist. JalgaonSanstha's

Nanasaheb Y. N. Chavan Arts, Science and Commerce College, Chaligaon.

Dist- Jalgaon

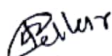
Physics and Electronics Department

Bridge Course- Basic Electronics

Syllabus:

1. **Basic Electronic Components-** Resistor, Capacitor, Inductor, Transformer etc.
2. **Switches-** Types of Switches.
3. **Semiconductor Basic-** Atomic structure, Types of material, semiconductor, p-n junction, Types of Diodes.
4. **Circuit Analysis-** Ohm's law, Kirchhoff's Current Law (KCL), Kirchhoff's Voltage Law (KVL).
5. **Digital Electronics-** Positive logic, Negative logic, Study of Logic Gates (OR, AND, NOT, NAND and NOR)

Year	Class	Course	No. of Students	Subject and Teacher	Dates	Duration
2015-16	F.Y.B.Sc.	Physics and Electronics	23	Basic Electronics- Prof. D. B. Patil	29-06-2015 To 11-07-2015	2 Weeks
2016-17	F.Y.B.Sc.	Physics and Electronics	11	Basic Electronics- Prof. G. D. Deshmukh	27-06-2016 To 09-07-2016	2 Weeks
2017-18	F.Y.B.Sc.	Physics and Electronics	28	Basic Electronics- Prof. Mrs. N. P. Golhar	26-06-2017 To 08-07-2017	2 Weeks
2018-19	F.Y.B.Sc.	Physics and Electronics	33	Basic Electronics- Prof. N. T. Shimpi	02-07-2018 To 14-07-2018	2 Weeks
2019-20	F.Y.B.Sc.	Physics and Electronics	28	Basic Electronics- Prof. Mrs. N. P. Golhar	01-07-2019 To 13-07-2019	2 Weeks
2020-21	F.Y.B.Sc.	Physics and Electronics	32	Basic Electronics- Dr.N.T.Shimpi Dr.G.B.Shelke Dr.G.D.Deshmukh Dr.Mrs.N.P.Golhar	14-12-2020 To 19-07-2020	1 Week



HEAD

DEPT. OF ELECTRONICS

Nanasaheb Yashwantrao Narayanrao Chavan
ARTS, SCIENCE & COMMERCE COLLEGE
CHALISGAON, DIST. JALGAON.



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DEPT. OF PHYSICS

NANASAHEB Y. N. CHAVAN
Arts, Science & Commerce College
CHALISGAON Dist. Jalgaon



NAAC Re-accredited - 'A' Grade

फोन ०२५८९-२२२६०९ (कार्यालय), २२५२८२ (निवास) मो. ९४२२७८९५०९

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rashtriyacollege@rediffmail.com
http://www.rashtriyacollege.org

रा. स. शि. प्र. मंडळ लि. चाळीसगाव जि. जळगाव संस्थेचे
नानासाहेब य. ना. चव्हाण कला, विज्ञान आणि
वाणिज्य महाविद्यालय, चाळीसगाव जि. जळगाव

Dr. S. R. JADHAV
M.Sc., M.Phil., Ph.D.
Principal

डॉ. एस. आर. जाधव
एम. एस्सी., एम. फिल., पीएच. डी.
प्राचार्य

Date / दिनांक - 11/12/2020

Outward No. / जावक क्र.

Bridge Course

All the students from F.Y.B.Sc. Electronics class are hereby noticed that Physics-Electronics Department is going to organize **One week Bridge Course** from 14-12-2020 to 19-12-2020.

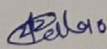
Syllabus:

1. **Basic Electronic Components-** Resistor, Capacitor, Inductor, Transformer etc. (Dr.G.B.Shelke)
2. **Switches-** Types of Switches
3. **Semiconductor Basic-** Atomic structure, Classification of materials, semiconductor, p-n junction, Types of Diodes. (Dr.Mrs.N.P.Golhar)
4. **Circuit Analysis-** Ohm's law, Kirchhoff's Current Law (KCL), Kirchhoff's Voltage Law (KVL). (Dr.G.D.Deshmukh)
5. **Digital Electronics-** Positive logic, Negative logic, Study of Logic Gates (OR, AND, NOT, NAND and NOR). (Prof.N.T.Shimpi)

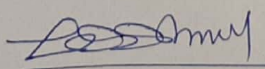
The schedule of this course is as shown in the below table.

Date	Time	Teacher's Name
14-12-20	3.00 pm to 3.40 pm	Dr.G.B.Shelke
15-12-20	3.00 pm to 3.40 pm	Dr.Mrs.N.P.Golhar
16-12-20	3.00 pm to 3.40 pm	Dr.Mrs.N.P.Golhar
17-12-20	3.00 pm to 3.40 pm	Dr.G.D.Deshmukh
18-12-20	3.00 pm to 3.40 pm	Dr.G.D.Deshmukh
19-12-20	3.00 pm to 3.40 pm	Prof.N.T.Shimpi

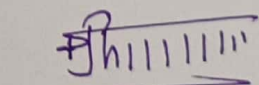
Zoom link of each lecture will be posted at F.Y.B.Sc. Electronics WhatsApp group. All the students from above class are informed to attend this One week Bridge Course. This course is in addition to the syllabus of our university. This will definitely enhance knowledge about Electronics.


(Dr. N.P. Golhar)

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(Dr. G.D. Deshmukh)

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(Prin. Dr. S.R. Jadhav)
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एम. एस्सी., एम. फिल., पीएच. डी.
प्राचार्य

Dr. S. R. JADHAV
M.Sc., M.Phil., Ph.D.
Principal

Outward No. / जावक क्र.

Date / दिनांक - 18 Nov - 21

Bridge Course (2021-22)

All the students from F.Y.B.Sc. Electronics class are hereby noticed that Physics-Electronics Department is going to organize **One week Bridge Course** from 22-11-2021 to 27-11-2021.

Syllabus:

1. **Basic Electronic Components-** Resistor, Capacitor, Inductor, Transformer etc. (Dr.G.B.Shelke)
2. **Switches-** Types of Switches
3. **Semiconductor Basic-** Atomic structure, Classification of materials, semiconductor, p-n junction, Types of Diodes. (Dr.Mrs.N.P.Golhar)
4. **Circuit Analysis-** Ohm's law, Kirchhoff's Current Law (KCL), Kirchhoff's Voltage Law (KVL). (Dr.G.D.Deshmukh)
5. **Digital Electronics-** Positive logic, Negative logic, Study of Logic Gates (OR, AND, NOT, NAND and NOR). (Dr.N.T.Shimpi)


The schedule of this course is as shown in the below table.

Date	Time	Teacher's Name
22-11-21	3.00 pm to 3.40 pm	Dr.G.B.Shelke
23-11-21	3.00 pm to 3.40 pm	Dr.Mrs.N.P.Golhar
24-11-21	3.00 pm to 3.40 pm	Dr.Mrs.N.P.Golhar
25-11-21	3.00 pm to 3.40 pm	Dr.G.D.Deshmukh
26-11-21	3.00 pm to 3.40 pm	Dr.G.D.Deshmukh
27-11-21	3.00 pm to 3.40 pm	Dr..N.T.Shimpi


Zoom link of each lecture will be posted at F.Y.B.Sc. Electronics WhatsApp group. All the students from above class are informed to attend this One week Bridge Course. This course is in addition to the syllabus of our university. This will definitely helpful to you and enhance knowledge about Electronics.


(Dr. Mrs. N. P. Golhar)

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(Dr. G. D. Deshmukh)

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(Dr. S. R. Jadhav)

PRINCIPAL
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Arts, Science & Commerce College,
CHALISGAON, Dist. Jalgaon.

Department of Physics - Electronics

Bridge Course - Basic Electronics

Attendance Report - 2020-21

Timestamp	Name of the student (as per on mark sheet)			Email address
14/12/2020 15:49:24	Chetan sanjayshelake	14/12/2020	03:00:00	chetanshelke147@gmail.com
14/12/2020 15:50:11	NikamVaishnavi Sunil	14/12/2020	03:50:00	vn14052002@gmail.com
14/12/2020 15:50:43	Patil KetakeePraddyumnsingh	14/12/2020	15:00:00	ketakeepatil2002@gmail.com
14/12/2020 15:51:29	Gayatrisonawane	14/12/2020	03:00:00	gayatrisonawane97770@gmail.com
14/12/2020 15:51:40	Swati zodage	14/12/2020	03:51:00	swatizodage2000@gmail.com
14/12/2020 15:52:27	Ragini Prakash more	14/12/2020	15:00:00	raginimore001@gmail.com
14/12/2020 15:52:33	Gayatri Anil Patil	14/12/2020	03:00:00	patilgayatry2002@gmail.com
14/12/2020 15:52:39	Patil BhumikaTukaram	14/12/2020	03:50:00	bhumikap482@gmail.com
14/12/2020 15:52:41	patilsuyogsanjay	14/12/2020	15:00:00	patilsuyog8651@gmail.com
14/12/2020 15:53:15	SachinGorakhpatil	14/12/2020		sr6740473@com.gam
14/12/2020 15:54:01	Kumavatpavansantosh	14/12/2020	15:00:00	pavankumavat1909@gmail.com
14/12/2020 16:24:11	DeoreDivyadilip	14/12/2020	15:00:00	deoredivya2002@gmail.com
14/12/2020 16:32:22	ShimpankarTusharDevidas	14/12/2020	15:00:00	tusharshimpankar@gmail.com
14/12/2020 17:05:33	PavanBhaskarWaikar	14/12/2020	05:05:00	pavanwaikar02@gmail.com
14/12/2020 18:15:21	GAIKWAD MAYUR DIPAK	14/12/2020	18:15:00	mayurgaikwad150702@gmail.com
14/12/2020 19:10:14	SrushtiJitendraBhandarkar	14/12/2020	15:40:00	srushtibhandarkar@gmail.com
14/12/2020 19:15:54	PRAMOD KESHAV PATIL	14/12/2020	11:00:00	PRAMODPATIL09062000@Gmail.com
14/12/2020 21:04:24	Patil Vaishalipralhad	14/12/2020	21:04:00	vaishalipa2020@gamil.com
14/12/2020 22:36:53	GayatriRambihari pal	14/12/2020	03:00:00	gayatripal1520@gmail.com
15/12/2020 08:06:20	Ashwini Dipak Desale	15/12/2020	07:30:00	dipakpatil9890083049@gmail.com
15/12/2020 10:24:35	Chaudharikavitaanil	15/12/2020	09:50:00	kavitachaudhari233@gmail.com
16/12/2020 15:49:30	Patil BhuvneshwariArun	16/12/2020	15:00:00	bhuvneshwaripatil250@gmail.com
16/12/2020 15:50:13	MALI YOGESH PRAKASH	16/12/2020	03:00:00	Ymali3382@gmail.com
16/12/2020 15:51:16	Patil AnkitaDharmaraj	16/12/2020	03:00:00	ankita.patil9890@gmail.com
16/12/2020 15:53:28	Patil Rajashri Sharad	16/12/2020	15:53:00	patilrajeshri378@gmail.com

16/12/2020 15:53:59	ShimpankarTusharDevidas	16/12/2020	15:00:00	tusharshimpankar@gmail.com
16/12/2020 15:54:04	Patil KetakeePraddyumnsingh	16/12/2020	03:00:00	ketakeepatil2002@gmail.com
16/12/2020 15:54:16	Gayatri Anil Patil	16/12/2020	03:00:00	patilgayatry2002@gmail.com
16/12/2020 15:54:25	Swati zodage	16/12/2020	03:54:00	swatizodage2000@gmail.com
16/12/2020 15:55:10	Patil Vaishalipralhad	16/12/2020	15:55:00	vaishalipa2020@gamil.com
16/12/2020 15:56:14	Chaudharikavitaanil	16/12/2020	03:00:00	kavitachaudhari233@gmail.com
16/12/2020 15:57:10	PavanBhaskarWaykar	16/12/2020	03:57:00	pavanwaikar02@gmail.com
16/12/2020 15:58:00	Ragini Prakash more	16/12/2020	15:00:00	raginimore001@gmail.com
16/12/2020 15:58:53	Chetan sanjayshelake	16/12/2020	15:00:00	chetanshelke147@gmail.com
16/12/2020 15:58:53	PavanBhaskarWaikar	16/12/2020	03:58:00	pavanwaikar02@gmail.com
16/12/2020 16:06:01	00	16/12/2020	07:30:00	upasanapatilofficial.@gmail.com
16/12/2020 16:53:04	Patil BhumikaTukaram	16/12/2020	03:40:00	bhumikap482@gmail.com
16/12/2020 16:54:24	NikamVaishnavi Sunil	16/12/2020	03:50:00	vn14052002@gmail.com
16/12/2020 17:10:37	GayatriRambihari pal	16/12/2020	03:30:00	gayatripal1520@gmail.com
16/12/2020 17:11:11	gayatriRambihari pal	16/12/2020	03:00:00	gayatripal1520@gmail.com
16/12/2020 17:27:22	patilsuyogsanjay	16/12/2020	15:00:00	patilsuyog8651@gmail.com
16/12/2020 18:37:41	Kumavatpawansantosh	16/12/2020	15:00:00	pavankumavat1909@gmail.com
16/12/2020 19:34:11	GAIKWAD MAYUR DIPAK	16/12/2020	05:33:00	mayurgaikwad150702@gmail.com
16/12/2020 19:34:18	PavanBhaskarWaykar	16/12/2020	07:34:00	pavanwaikar02@gmail.com
17/12/2020 16:32:56	Mali Digambarsuresh	17/12/2020	04:32:00	digambarmali153@gmail.com
17/12/2020 16:37:31	Patil Rajashri Sharad	17/12/2020	16:37:00	patilrajeshri378@gmail.com
17/12/2020 16:45:43	Mali Yogesh prakash	17/12/2020	03:00:00	Ymali3382@gmail.com
17/12/2020 16:47:43	Patil Vaishalipralhad	17/12/2020	16:47:00	vaishalipa2020@gamil.com
17/12/2020 17:06:09	SachinGorakhpatil	17/12/2020		sr6740473@Gimal.com
17/12/2020 17:06:47	PavanBhaskarWaikar	17/12/2020	05:06:00	pavanwaikar02@gmail.com
17/12/2020 17:06:49	NikamVaishnavi Sunil	17/12/2020	05:06:00	vn14052002@gmail.com

17/12/2020 17:07:25	SachinGorakhpatil	17/12/2020		sr6740473@Gimal.com
17/12/2020 17:10:48	Chetan sanjayshelake	17/12/2020	15:00:00	chetanshelke147@gmail.com
17/12/2020 17:11:31	Patil BhuvneshwariArun	17/12/2020	03:00:00	bhuvneshwaripatil250@gmail.com
17/12/2020 17:45:38	patilsuyogsanjay	17/12/2020	15:00:00	patilsuyog8651@gmail.com
17/12/2020 17:47:04	Swati zodage	17/12/2020	04:00:00	swatizodage2000@gmail.com
17/12/2020 18:14:05	GAIKWAD MAYUR DIPAK	17/12/2020	17:13:00	mayurgaikwad150702@gmail.com
17/12/2020 18:31:29	Sujata laxmanpatil	17/12/2020	15:00:00	sujata231202@gmail.com
17/12/2020 18:48:46	Patil sayalisarjerao	17/12/2020	03:00:00	patilsarjerao198@gmail.com
17/12/2020 18:54:19	Patil KetakeePraddyumnsingh	17/12/2020	07:30:00	ketakeepatil2002@gmail.com
17/12/2020 19:25:26	PRAMOD KESHAV PATIL	17/12/2020	09:50:00	PRAMODPATIL09062000@gmail.com
18/12/2020 15:38:50	Patil BhumikaTukaram	18/12/2020	03:40:00	bhumikap482@gmail.com
18/12/2020 15:38:54	Gayatri Anil Patil	18/12/2020	03:00:00	patilgayatry2002@gmail.com
18/12/2020 15:38:59	Patil AnkitaDharmaraj	18/12/2020	03:00:00	ankita.patil9890@gmail.com
18/12/2020 15:40:06	Patil Rajashri Sharad	18/12/2020	15:40:00	patilrajeshri378@gmail.com
18/12/2020 15:43:52	JayashriRavindraChaudhari	18/12/2020	03:00:00	jchaudhari2002@gmail.com
18/12/2020 15:45:45	DeshmukhPranaliBabasaheb	18/12/2020	03:00:00	deshmukhpranali254@gmail.com
18/12/2020 15:46:12	Nityanandpatil	18/12/2020	03:00:00	nityapatil9021@gmail.com
18/12/2020 15:48:37	NikamVaishnavi Sunil	18/12/2020	03:47:00	vn14052002@gmail.com
18/12/2020 15:49:58	PRAMOD KESHAV PATIL	18/12/2020	03:00:00	PRAMODPATIL3650@GMAIL.COM
18/12/2020 15:50:01	PRAMOD KESHAV PATIL	18/12/2020	03:00:00	PRAMODPATIL3650@GMAIL.COM
18/12/2020 15:50:27	Thakare Ashwini Sanjay	18/12/2020	03:00:00	nk7937515@gmail.com
18/12/2020 15:57:40	Chaudharikavitaanil	18/12/2020	03:00:00	kavitachaudhari233@gmail.com
18/12/2020 16:12:29	Zodageswati	18/12/2020	16:10:00	swatizodage2000@gmail.com
18/12/2020 16:16:08	PavanBhaskarWaikar	18/12/2020	04:15:00	pavanwaikar02@gmail.com
18/12/2020 16:32:10	patilsuyogsanjay	18/12/2020	15:00:00	patilsuyog8651@gmail.com
18/12/2020 18:24:11	GAIKWAD MAYUR DIPAK	18/12/2020	16:24:00	mayurgaikwad150702@gmail.com

18/12/2020 19:44:32	Patil Vaishalipralhad	18/12/2020	19:44:00	vaishalipa2020@gamil.com
18/12/2020 19:49:28	PavanBhaskarWaikar	18/12/2020	07:49:00	pavanwaikar02@gmail.com
18/12/2020 22:50:35	SrushtiJitendraBhandarkar	18/12/2020	07:30:00	srushtibhandarkar@gmail.com
19/12/2020 09:02:59	Patil Vaishalipralhad	19/12/2020	09:02:00	vaishalipa2020@gamil.com
19/12/2020 16:03:27	NikamVaishnavi Sunil	19/12/2020	04:03:00	vn14052002@gmail.com
22/12/2020 10:35:59	Patil bhumikatukaram	22/12/2020	11:30:00	bhumikap482@gmail.com
23/12/2020 08:41:58	Patil sayalisarjerao	23/12/2020	08:10:00	patilsarjerao198@gmail.com

Patil

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Dist- Jalgaon

Physics and Electronics Department

Bridge Course 21-22 - Basic Electronics

Attendance Report 2021-22

Sr.No.	Name of the Student	email
01	AhireDivyaRavindra	rm6611834@gmail.com
02	Akshaydilipmagar	akshymagar623@gmail.com
03	AnushkaNandakishorDeokar	anushkadeokar@gmail.com
04	Chanchal Mohan Patil	lalitapati203@gmail.com
05	DeshmukhNayanaPanjabrao	nehapd2003@gmail.com
06	GavandechandrasahyaDnyaneshwar	chandrasahyagavande@gmail.com
07	GawaliSakshi Prakash	sakshigawali2405@gmail.com
08	Ghanshyamamrutwagh	waghg2019@gmail.com
09	Gopal Anil Mali	gam16032003@gmail.com
10	Harshadaprafullchadrasuryavanshi	harshadasuryavanshi493@gmail.com
11	Harshal Satish Randive	vaishalirandive1984@gmail.com
12	JadhavPradnyaRajendra	pradnyarjadhav129@gmail.com
13	KumavatAbhaySomnath	abhaykumavat8@gmail.com
14	Mahajan Narendra Jagannath	njmahajan621@gmail.com
15	Mali Shubhamjagannath	shubhamali106@gmail.com
16	MulmuleVaibhavGorakhanath	vaibhavmulmule88@gmail.com
17	Nikamvarsha Dipak	nikamvarsha03@gmail.com
18	PradnyaRajendraJadhav	pradnyarjadhav129@gmail.com
19	PurvaDilip Patil	purva4095@gmail.com
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