



FABTECH TECHNICAL CAMPUS

College of Engineering & Research, Sangola

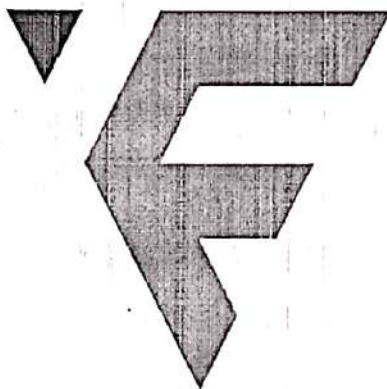
An Autonomous Institute, Accredited by NAAC "A" Grade

Approved by AICTE, New Delhi, DTE, (M.S.), Mumbai & Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Dist- Raigad. DTE CODE-6756

**FABTECH EDUCATION SOCIETY's
FABTECH TECHNICAL CAMPUS
COLLEGE OF ENGINEERING & RESEARCH,
SANGOLA**

(An Autonomous Institute)

Affiliated to Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere



**In-line with the
National Education Policy (NEP) 2020 Compliant
Curriculum
For
DEPARTMENT OF ELECTRICAL ENGINEERING
Second Year B. Tech. to Final Year B.Tech.**

(Sem. III to Sem. VIII)

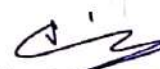
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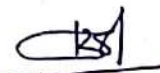


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**Board of Studies (BoS)
Electrical Engineering Department
FTCCOER, Sangola
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College of Engg. & Research, Sangola



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Semester-wise Credit Distribution

Sr. No.	SEM/Course	I	II	III	IV	V	VI	VII	VIII	Total Credits	NEP Requirement
1	Basic Science Course(BSC)	8	7	--	--	---	-	---	-	15	14-18
2	Engineering Science Course (ESC)	8	8	--	--	--	---	--	--	16	12-16
3	Program Core Course(PCC)	--	2	10	11	11	8	7	6	55	44-56
4	Program Elective Course(PEC)	--	--	--	--	4	7	6	--	17	20
5	Multidisciplinary Minor Course (MDM)	--	--	3	3	3	3	2	--	14	14
6	Open Elective Course (OE)	--	--	3	3	2	--	--	--	8	8
7	Vocational & Skill Enhancement Course (VSEC)	2	2	--	--	1	2	--	--	7	8
8	Ability Enhancement Course (AEC)	2	--	1	1	--	---	--	-	4	4
9	Entrepreneurship /Economics/ Management Courses (EMC)	--	--	2	2	--	--	--	--	4	4
10	Indian Knowledge System (IKS)	--	2	--	--	--	--	--	--	2	2
11	Value Education Course (VEC)	--	--	2	2	--	--	--	--	4	4
12	Research Methodology (RM)	--	--	--	--	--	--	4	--	4	4
13	Community Engineering Project (CEP)/ Field Project (FP)	--	--	--	--	01	--	01	--	2	2
14	Project (PR)	--	--	---	--	--	2	2	-	4	4
15	Internship/ On Job Training (OJT)	--	--	--	--	--	--	--	12	12	12
16	Co-Curricular Course (CC)	2	2	--	--	--	--	--	--	4	4
Total Credits-		22	23	21	22	22	22	22	18	172	160-176

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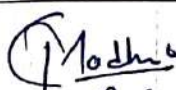
Credit Distribution for each year and Exit Option

NCrF Level	Year/Semester	Exit Option	Credits	Additional Credits for exit students	Total Credits
4.5	Semester I & II	U.G. Certificate	45	08	53
5.0	Semester III & IV	U.G. Diploma	88	08	96
5.5	Semester V & VI	B. Vocational / B.Sc. Engg.	135	08	143
6.0	Semester VII & VIII	B. Tech. Major with Multidisciplinary Minor	174	----	174
		B. Tech. Honors and Multidisciplinary Minor	174+18	----	192
		B. Tech. Honors with Research and Multidisciplinary Minor	174+18	----	192
		B. Tech. with Double Minor (Multidisciplinary and Specialization Minor)	174+18	----	192

Course Category-wise Credit Distribution

Course Category	CC	As per NEPGR	FTCCOER Credits
BSC/ESC	BS	14-18	15
	ES	16--12	16
Program Courses	PC	44-56	55
	PE	20	17
Multidisciplinary Courses	MM	14	14
	OE	08	8
Skill Courses	VSEC	08	7
Humanities, Social Science & Management (HSSM)	AEC	04	4
	EM	04	4
	IKS	02	2
	VEC	04	4
Experiential Courses	RM	04	4
	FP	02	2
	PR	04	4
	IN/OJT	12	12
Liberal Learning Courses	CC	04	4
Total Credits	-	160-176	172


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Curriculum for Second Year B. Tech. (Electrical Engineering) with effect from A.Y.2026-27												
Semester - III												
Course Type	Course Code	Name of the Course	Engagement Hours			Credits	In Semester Evaluation Scheme			End Semester Evaluation Scheme		Total Marks
			L	T	P		MSE	ICA	Total	ESE	OE/POE	
							M	M	M	M	M	
PCC	26UEE21101	Mathematical Applications in Electrical Engineering.	03	-	-	03	30	10	40	60	-	100
	26UEE21102	Transformers and DC Machines	03	-	-	03	30	10	40	60	-	100
	26UEE21103	Transformers and DC Machines Laboratory	-	-	02	01	-	25	25	-	25	50
	26UEE21104	Network Analysis	02	-	-	02	30	10	40	60	-	100
	26UEE21105	Network Analysis Laboratory	-	-	02	01	-	25	25	-	25	50
MDM	-	Multi- Disciplinary Minor-I	03	-	-	03	30	10	40	60	-	100
OE	-	Open Elective-I	03	-	-	03	30	10	40	60	-	100
AEC	26UGS21403	Basic Quantitative Ability	01	-	-	01	-	50	50	-	-	50
VEC	26UGS21801	Universal Human Values	02	-	-	02	-	50	50	-	-	50
EMC	26UET21806	Economics for Engineers	01	-	-	01	-	25	25	-	-	25
	26UET21807	Economics for Engineers Laboratory	-	-	02	01		25	25			25
Audit	26UCE21901	Environmental Studies	01	-	-	-	-	50	50	-	-	50
Audit	26UEE21901	Technical Aptitude-I	-	-	02	-	-	50	50	-	-	50
		Total	19	-	08	21	150	350	500	300	50	850

Abbreviations: L=Lecture, T=Tutorial, P=Practical, M=Marks

NOTE: A minimum of 40% marks is required to pass in the 'In Semester Evaluation Scheme Total', which is the sum of MSE and ICA scores.

Project-I: Minimum of 2 weeks which can be completed partially in third or fourth semester or in at one time. Credits to be evaluated in V Sem

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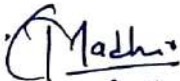
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		Curriculum for Second Year B. Tech. (Electrical Engineering) with effect from A.Y. 2026-27										
		Semester - IV										
Sp Course Type	Course Code	Name of the Course	Engagement Hours			Credits	In Semester Evaluation Scheme			End Semester Evaluation Scheme		Total Marks
			L	T	P		MSE	ICA	Total	ESE	OE/POE	
							M	M	M	M	M	
PCC	26UEE22106	AC Machines	03	-	-	03	30	10	40	60	-	100
	26UEE22107	AC Machines - Laboratory	-	-	02	01	-	25	25	-	25	50
	26UEE22108	Power System	03	-	-	03	30	10	40	60	-	100
	26UEE22109	Power System Laboratory	-	-	02	01	-	25	25	-	25	50
	26UEE22110	Analog and Digital Electronics	03	-	-	03	30	10	40	60	-	100
MDM	-	Multi- Disciplinary Minor-II	03	-	-	03	30	10	40	60	-	100
OE	-	Open Elective-II	03	-	-	03	30	10	40	60	-	100
AEC	26UGS22404	Advanced Quantitative Ability	01	-	-	01	-	50	50	-	-	50
EMC	26UET22802	Start-up for eco-system	01	-	-	01	-	25	25	-	-	25
	26UET22803	Start-up for eco-system Laboratory	-	-	02	01	-	25	25	-	-	25
VEC	26UET22804	Professional Ethics	01	-	-	01	-	25	25	-	-	25
	26UET22805	Professional Ethics Laboratory	-	-	02	01	-	25	25	-	-	25
Audit	26UME22901	Constitution of India	01	-	-	-	-	50	50	-	-	50
Audit	26UEE22902	Technical Aptitude - II	-	-	02	-	-	50	50	-	-	50
Total			19	-	10	22	150	350	500	300	50	850
Abbreviations: L=Lecture, T=Tutorial, P=Practical, M=Marks												
Note: A minimum of 40% marks is required to pass in the 'In Semester Evaluation Scheme Total', which is the sum of MSE and ICA scores.												


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Curriculum for Third Year B. Tech. (Electrical Engineering) with effect from A.Y. 2027-28												
Semester - V												
Course Type	Course Code	Name of the Course	Engagement Hours			Credits	In Semester Evaluation Scheme			End Semester Evaluation Scheme		Total Marks
			L	T	P		MSE M	ICA M	Total M	ESE M	OE/POE M	
PCC	27UEE31111	Power System Analysis	03	-	-	03	30	10	40	60	-	100
	27UEE31112	Power System Analysis Laboratory	-	-	02	01	-	50	-	-	-	50
	27UEE31113	Control System Engineering	03	-	-	03	30	10	40	60	-	100
	27UEE31114	Control System Engineering Laboratory.	-	-	02	01	-	25	25	-	25	50
	27UEE31115	Electrical Safety	03	-	-	03	30	10	40	60	-	100
PEC	27UEE31201	Program Elective-I	03	-	-	03	30	10	40	60	-	100
	27UEE31202	Program Elective-I Laboratory	-	-	02	01	-	25	25	-	25	50
MDM	-	Multi- Disciplinary Minor-III	03	-	-	03	30	10	40	60	-	100
OE	-	Open Elective-III	02	-	-	02	30	10	40	60	-	100
VSEC	27UGS31901	Logical Reasoning	-	-	02	01	-	50	50	-	-	50
CEP/FP	27UEE31741	Field Project-I	-	-	-	01	-	50	-	-	-	50
Audit	27UEE31903	Technical Aptitude-III	01	-	-	-	-	50	50	-	-	50
Total			18		08	22	180	310	390	360	50	900
Abbreviations: L=Lecture, T=Tutorial, P=Practical, M=Marks												
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Abbreviations: L=Lecture, T=Tutorial, P=Practical, M=Marks

Note: A minimum of 40% marks is required to pass in the 'In Semester Evaluation Scheme Total', which is the sum of MSE and ICA scores.

*Field Project-II: Minimum of 2 weeks which can be completed partially in fifth or sixth semester or in at one time. Credits to be evaluated in VII Sem


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Curriculum for Third Year B. Tech. (Electrical Engineering) with effect from A.Y. 2027-28

Semester - VI

Course Type	Course Code	Name of the Course	Engagement Hours			Credits	In Semester Evaluation Scheme			End Semester Evaluation Scheme		Total Marks
			L	T	P		MSE	ICA	Total	ESE	OE/POE	
							M	M	M	M	M	
PCC	27UEE32116	Power Electronics	03	-	-	03	30	10	40	60	-	100
	27UEE32117	Power Electronics Laboratory	-	-	02	01	-	25	25	-	25	50
	27UEE32118	Switchgear and Protection	03	-	-	03	30	10	40	60	-	100
	27UEE32119	Switchgear and Protection Laboratory	-	-	02	01	-	25	25	-	25	50
PEC	27UEE32203	Program Elective-II	03	-	-	03	30	10	40	60	-	100
	27UEE32204	Program Elective-II Laboratory	-	-	02	01	-	50	50	-	-	50
	27UEE32205	Program Elective-III	03	-	-	03	30	10	40	60	-	100
MDM	-	Multi- Disciplinary Minor-IV	03	-	-	03	30	10	40	60	-	100
VSEC	27UEE32604	Computational Programming & Simulation	01	-	02	02	-	50	50	-	-	50
Project	27UEE32751	Project Phase-I	-	-	04	02	-	50	50	-	50	100
Audit	27UGS32902	Data Interpretation	02	-	-	-	-	50	50	-	-	50
Audit	27UEE32904	Technical Aptitude-IV	-	-	02	-	-	50	50	-	-	50
Total			18		14	22	150	250	500	300	125	900

Abbreviations: L=Lecture, T=Tutorial, P=Practical, M=Marks

Note: A minimum of 40% marks is required to pass in the 'In Semester Evaluation Scheme Total', which is the sum of MSE and ICA scores.

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Curriculum for Final Year B. Tech. (Electrical Engineering) with effect from A.Y. 2028-29													
Semester - VII													
Course Type	Course Code	Name of the Course	Engagement Hours			Credits	In Semester Evaluation Scheme			End Semester Evaluation Scheme		Total Marks	
			L	T	P		MSE	ICA	Total	ESE	OE/POE		
							M	M	M	M	M		
PCC	28UEE41120	Electrical Machine Design	03	-	-	03	30	10	40	60	-	100	
	28UEE41121	Electrical Machine Design Laboratory	-	-	02	01	-	25	25	-	25	50	
	28UEE41122	Electric Vehicle Technology	02	-	-	02	30	10	40	60	-	100	
	28UEE41123	Electric Vehicle Technology Laboratory	-	-	02	01	-	50	50	-	-	50	
PEC	28UEE41206	Program Elective-IV	03	-	-	03	30	10	40	60	-	100	
	28UEE41207	Program Elective-V	03	-	-	03	30	10	40	60	-	100	
MDM	-	Multi-Disciplinary Minor-V	02	-	-	02	30	10	40	60	-	100	
RM	28UEE41701	Research Methodology	03	01	-	04	30	10	40	60	-	100	
CEP/FP	28UEE41742	Field Project-II	-	-	-	01	-	50	-	-	-	50	
Project	28UEE41752	Project Phase-II	-	-	04	2	-	50	50	-	50	100	
Total			16	01	8	22	180	235	365	360	75	850	
Abbreviations: L=Lecture, T=Tutorial, P=Practical, M=Marks													
Note: A minimum of 40% marks is required to pass in the 'In Semester Evaluation Scheme Total', which is the sum of MSE and ICA scores.													

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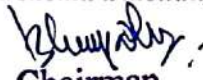


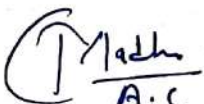
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Curriculum for Final Year B. Tech. (Electrical Engineering) with effect from A.Y. 2028-29												
Semester VIII												
Course Type	Course Code	Name of the Course	Engagement Hours			Credits	In Semester Evaluation Scheme			End Semester Evaluation Scheme		Total Marks
			L	T	P		MSE	ICA	Total	ESE	OE/POE	
							M	M	M	M	M	
PCC	28UEE42124	Self-Learning Course-I #	-	-	-	3	-	-	-	60	40	100
	28UEE42125	Self-Learning Course-II#	-	-	-	3	-	-	-	60	40	100
OJT	28UEE42761	Internship/OJT \$	-	-	-	12	-	100@	100	-	100	200
		Total	0	0	0	18	0	100	100	120	180	400
Abbreviations: L=Lecture, T=Tutorial, P=Practical, M=Marks												

These subjects are to be studied using SWAYAM/NPTEL (8 weeks)) (The list may alter and modify as per the availability of the subjects on the NPTEL/ SWYAM platform and usefulness, every year). Students who fail to satisfy the passing criteria of the course shall be required to appear for an offline examination for the same course and secure the minimum passing marks/grade as prescribed by the Institute.

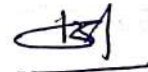
\$ Twelve weeks of Internship in the industry.

@ Student has to submit a monthly internship activity report as per prescribed format to the department internship coordinator.


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LIST OF PROGRAM ELECTIVE COURSES (PEC)

Semester	Course Code	Power System	Renewable Energy Systems	Automation
V	27UEE31201	A) FACTs and HVDC	B) Advanced Renewable Energy Sources	C) Microprocessor and Microcontroller
V	27UEE31202	A) FACTs and HVDC Lab	B) Advanced Renewable Energy Sources Lab	C) Microprocessor and Microcontroller Lab
VI	27UEE32203	A) High Voltage Engineering	B) Renewable Energy Sources Integration with grid	C) Industrial Automation & IoT
VI	27UEE32204	A) High Voltage Engineering Lab	B) Renewable Energy Sources Integration with grid Lab	C) Industrial Automation & IoT Lab
VI	27UEE41205	A) Electrical Utilization	B) Renewable Energy Planning & Economics	C) PLC&SCADA
VII	28UEE42206	A) Power System operation and control	B) Electrical Energy Conservation & Auditing	C) Advanced Electrical Drives and Control
VII	28UEE42207	A) Power Quality Issues	B) Energy Storage Systems	C) Industrial Robotics

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Multi-Disciplinary Minor Courses Offered by Various Department

As per NEP guidelines, Semester-wise Credit Distribution for MDM are as below

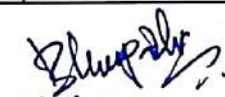
SEM	I	II	III	IV	V	VI	VII	VIII	Total Credits	NEP Requirement
Multi-Disciplinary Minor (MDM)	--	--	02	02	04	02	02	02	14	14

As per Institute guidelines, Semester-wise Credit Distribution for MDM are as below

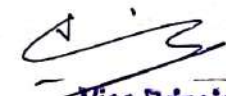
SEM	I	II	III	IV	V	VI	VII	VIII	Total Credits	NEP Requirement
Multi-Disciplinary Minor (MDM)	--	--	03	03	03	03	02	--	14	14

MDM offered by Electrical Engineering

Sr No.	Offering Department	Name of Minor Domain	Courses Offered	Course Code	Students from Department who can register
1	Electrical Engineering	EV Technology	Basics of Electric Motors and Converters		CSE, AI&DS, ENTIC, ME, CE
			Energy storage system for EV	26UEE22402	
			Electric and Hybrid Vehicles	26UEE31403	
			Electric Charging Systems for EVs	26UEE32404	
			IoT in EV Applications	26UEE41405	


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LIST OF OPEN ELECTIVE COURSES

Sr. No	Elective Type	OE-I with 3 Credit Sem-III	OE-II with 3 Credit Sem-IV	OE-III with 2 Credit Sem-V	Course offered by Department
1	Health & Management	Emotional Intelligence (26UOE21501)	Leadership Skills (26UOE22507)	Stress Management (27UOE31513)	AI&DS
2	Environment & Sustainability	Climate Change & Mitigation (26UOE21502)	Waste Management & Recycling (26UOE22508)	Green Technology (27UOE31514)	Civil
3	Sustainable Development	Fundamentals of IoT for Smart Agriculture (26UOE21503)	Industrial IoT and SCADA Systems (26UOE22509)	AI-Enabled Precision Agriculture & Smart Monitoring (27UOE31515)	CSE
4	Humanities & Arts	Fundamentals of IPR (26UOE21504)	Legal Aspects of Innovation and Intellectual Property (26UOE22510)	Patents search and Analytics (27UOE31516)	Electrical
5	Management & Commerce	Behavioral Economics (26UOE21505)	Financial Management for Engineers (26UOE22511)	Business Ethics (27UOE31517)	E&TC
6	Arts & Design	Design Thinking (26UOE21506)	Managerial Innovation & Entrepreneurship (26UOE22512)	Product Development (27UOE31518)	Mechanical

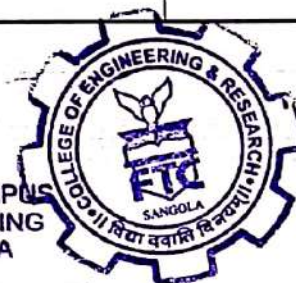

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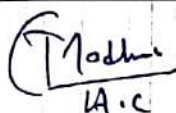
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List of Courses and Course Code

Sr. No.	Semester	Course Name	Course Code
1	III	Mathematical Applications in Electrical Engineering.	26UEE21101
2		Transformers and DC Machines	26UEE21102
3		Transformers and DC Machines Laboratory	26UEE21103
4		Network Analysis	26UEE21104
5		Network Analysis Laboratory	26UEE21105
6		Multi- Disciplinary Minor-I	-
7		Open Elective-I	-
8		Basic Quantitative Ability	26UGS21403
9		Universal Human Values	26UGS21801
10		Economics for Engineers	26UET21806
11		Economics for Engineers Laboratory	26UET21807
12		Environmental Studies	26UCE21901
13		Technical Aptitude-I	26UEE21901
14	IV	AC Machines	26UEE22106
15		AC Machines - Laboratory	26UEE22107
16		Power System	26UEE22108
17		Power System Laboratory	26UEE22109
18		Analog and Digital Electronics	26UEE22110
19		Multi- Disciplinary Minor-II	-
20		Open Elective-II	-
21		Advanced Quantitative Ability	26UGS22404
22		Start-up for eco-system	26UET22802
23		Start-up for eco-system Laboratory	26UET22803
24		Professional Ethics	26UET22804
25		Professional Ethics Laboratory	26UET22805
26		Constitution of India	26UME22901
27		Technical Aptitude - II	26UEE22902
28	V	Power System Analysis	27UEE31111
29		Power System Analysis Laboratory	27UEE31112
30		Control System Engineering	27UEE31113
31		Control System Engineering Laboratory.	27UEE31114
32		Electrical Safety	27UEE31115
33		Program Elective-I	27UEE31201
34		Program Elective-I Laboratory	27UEE31202
35		Multi- Disciplinary Minor-II	-
36		Open Elective-III	-
37		Logical Reasoning	27UGS31901
38		Field Project-I	27UEE31741
39		Technical Aptitude-III	27UEE31903
40	VI	Power Electronics	27UEE32116


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41		Power Electronics Laboratory	27UEE32117
42		Switchgear and Protection	27UEE32118
43		Switchgear and Protection Laboratory	27UEE32119
44		Program Elective-II	27UEE32203
45		Program Elective-II Laboratory	27UEE32204
46		Program Elective-III	27UEE32205
47		Multi- Disciplinary Minor-IV	-
48		Computational Programming & Simulation	27UEE32604
49		Project Phase-I	27UEE32751
50		Data Interpretation	27UGS32902
51		Technical Aptitude-IV	27UEE32904
52	VII	Electrical Machine Design	28UEE41120
53		Electrical Machine Design Laboratory	28UEE41121
54		Electric Vehicle Technology	28UEE41122
55		Electric Vehicle Technology Laboratory	28UEE41123
56		Program Elective-IV	28UEE41206
57		Program Elective-V	28UEE41207
58		Multi-Disciplinary Minor-V	-
59		Research Methodology	28UEE41701
60		Field Project-II	28UEE41742
61		Project Phase-II	28UEE41752
62		Self-Learning Course-I #	28UEE42124
63	VIII	Self-Learning Course-II#	28UEE42125
64		Internship/OJT \$	28UEE42761

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