

# Dr.Chandrashekhar V. Murumkar

PRINCIPAL

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**Anekant Education Society's** 

# TULIARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati, 413102

Religious Minority Institute NAAC REACCREDITED 'A+', CGPA 3.55

- Best College Award SPPU 2017
- UGC CPE Status
- DBT Star College Scheme
- ISO Certified 9001 2008
- Best Principal Award SPPU 2017
- UGC B. Voc. Programme
- · DST FIST 'O' Level

UGC - COC

of Pune) (Id No.PU/PN/ASC/016/1962) Univ. College Code No. 032, HSC Board Code No.J 11.02.001(1976-77) Affiliated to Savitribai Phule Pune Unive

Ref. No. AES/TCC/ Gelm 31

To. Dr. Garima Gupta, Scientist D, Department of Biotechnology, New Delhi

Sub.: Submission of progress report for STAR College Scheme (2016-17)

Ref.: Your email dated 06/04/2017

Respected Dr. Gupta,

Thank you for your e-mail. We are sending, herewith, the copy of the Annual progress report for the STAR college scheme granted to our college for the academic year 2016-17. The scheme is sanctioned to four departments of our institute viz. Microbiology, Botany, Zoology and Physics which consequently resulted in increase in the quality of education and infrastructure.

Hope you will find the progress report in order.

Thanking you with regards,

Yours faithfully,

(Dr. S. J. Sathe) Coordinator,

DBT-STAR College Scheme

### ANNUAL PROGRESS REPORT (2016-17) OF DBT-STAR COLLEGE SCHEME

Annexure I

1. Name of the College: Tuljaram Chaturchand College

of Arts, Science and Commerce, Baramati

2. Status (Govt./ Govt. Aided/ Autonomous/Pvt): Govt. Aided

3. Women's College or Co-educational : Co-educational

**4.** Urban/Rural : Rural

5. No. of departments supported : 04

**6. NAAC Ranking + Year** :A+ (CGPA-3.55), 2017

7. Details of extramural funding received in the last 3 years (UGC, DBT, DST; duration, period and amount):

### Funding Received for the period 2014-15 to 2016-17

Sr.No.	Agency	2014-15	2015-16	2016-17	Total
1	DBT				
	DBT Star	-	20,00,000	9,00,000	29,00,000
	DBT (Prof.S.T. Pawar)	-	3,34,966		3,34,966
2	DST – FIST	39,50,000	-	17,80,980	57,30,980
	DST-SERB	3,00,000	6,00,000		9,00,000
3	UGC				
	G.D.A.	4,80,000			4,80,000
	IQAC	3,00,000			3,00,000
	MRP (Prof.N.K.Dhane)	2,90,000			2,90,000
	Substitute Teacher	14,45,024	54,81,565		69,26,589
	Teacher Fellowship	30,000	75,000		1,05,000
	11 <sup>th</sup> Plan	-	1,93,610		1,93,610
	C.O.C.	-		21,59,550	21,59,550
	B.Voc.	65,00,000		18,70,820	83,70,820
	СРЕ	-		1,02,00,000	1,02,00,000
	MRP (Prof.S.T.Pawar)	-		4,26,007	4,26,007
				TOTAL	2,94,51,576

#### **QUANTITATIVE**

(Data to be provided in the figures as well as bar graphs, before and after the Star College Scheme was implemented in the college)

### 8. No. of applicants vs. No. of seats in each department:

		Microbiology	Botany	Zoology	Physics
F. Y. B. Sc.	No. of	400	500	407	275
	Applicants				
	No. of Seats	218	248	185	212
	(Admission)				
S. Y. B. Sc.	No. of	51	145	154	160
	Applicants				
	No. of Seats	51	145	154	146
	(Admission)				
T. Y. B. Sc.	No. of	31	24	41	63
	Applicants				
	No. of Seats	31	22	41	53
	(Admission)				

# 9. Number of students admitted year wise in different courses supported under the Star College Scheme:

Class	Number of students admitted					
	Microbiology Botany Zoology P					
F. Y. B. Sc.	30	22	30	27		
S. Y. B. Sc.	49	26	27	22		
T. Y. B. Sc.	31	16	22	23		

- 10. Change in the cut off percentage/admission: N.A. [First Year]
- 11. Change in the dropout rate: N.A. [First Year]
- 12. Data on pass percentage (UG level): N.A. [First Year]
- 13. Data on how many students opted for PG courses: N.A. [First Year]
- 14. List of additional practicals introduced

#### Microbiology:

- 1. Good laboratory Practices.
- 2. Wrapping of Glasswares and Plugging of Flasks and Tubes.
- 3. Adjustment of pH meter using pH meter.
- 4. Handling of Micropipetts.
- 5. Preparation of Slants and Butts.
- 6. Preparation of Molar/Normal/% solution.
- 7. Preparation of SOP for UV Spectrophotometer.

- 8. Preparation of SOP for operation of Cooling Centrifuge.
- 9. Preparation of Manuscript using Microsoft Word and Microsoft Exel.
- 10. Calibration of pH meter.
- 11. Fumigation of Lab.
- 12. Handling of Laminar Air Flow.

#### **Botany:**

- 1. Vermiculture technique.
- 2. Use of biofertilizers in crop field.
- 3. Phytoremediation of saline soil.
- 4. Practical's based on nursery management preparation of beds and raising seedlings.
- 5. Techniques of seed scarification.
- 6. Seed testing for viability and vigor.
- 7. Practical's based on nursery management- cultivation techniques.
- 8. Practical's based on nursery management
- 9. Raising of different types of green and poly house.

#### Zoology:

- 1. Culturing of Earthworm
- 2. To estimate the Morphometric measurements in fishes.
- 3. Handling of microscopes.
- 4. Preparation of buffer of desired pH and molarity.
- 5. Preparation of normal, molar and percent solution.
- 6. Study of heart beat in cockroach.
- 7. Analysis of Sugars by TLC.
- 8. Sectioning and staining and mounting from animal tissues.
- 9. Population dynamics of insects with Quadrate method.
- 10. Chick embryo culture on glass ring.
- 11. Study of fecundity in fishes.
- 12. Effect of acetylcholine & adrenaline on fish chromatophores.

## Physics:

#### F.Y B.Sc

- 1. Young's Modulus of Metal Bar by flexural vibration method
- 2. Rigidity modulus of brass
- 3. Study and use of digital vernier, micrometer screw gauge, CRO etc.

#### S.Y. B.Sc

- 4. Calibration of Si diode as thermometer
- 5. Energy band gap of semiconductor
- 6. Measurement of capacitance
- 7. Characteristics of solar cell

#### T.Y. B.Sc

- 8. Measurement of electrical and thermal conductivity of copper
- 9. Study of AC bridges
- 10. Dielectric constant of non-polar liquid and dipole moment of organic liquid
- 11. B-H curve of ferromagnetic materials
- 12. Measurement of self inductance of coil
- 13. Determination of wavelength of given source

# 15. List of minor projects implemented name of students and supervisor Microbiology

Sr. No.	Name of the Project	Name of Students	Name of Guide
1.	Isolation and purification of bacteriophage of <i>Xanthomonas</i> axonopodis.	<ol> <li>Kajal Gaikawad</li> <li>Sayali Doshi</li> <li>Monika Shejal</li> <li>Bhakti Swami</li> <li>Sayali Shinde</li> <li>Kalyani Sonawane</li> </ol>	Dr. M. H. Gajbhiye
2.	Isolation and characterization of amylase producing bacteria from soil	<ol> <li>Nisha Bajaj</li> <li>Santosh Gulumkar</li> <li>Geetanjali Pansare</li> <li>Mayur Pawar</li> <li>Happiza Mallick</li> <li>Komal Jagtap</li> </ol>	Mrs. Y. R. Mulay
3.	Isolation and identification of normal flora present in acne	1. Gayatri Bhavsar 2. Kanchan Mengade 3. Geetanjali Karve 4. Pranali Nale 5. Pravin More 6. Neha Khandale	Mr. D. V. Doshi
4.	Analysis of water sample	<ol> <li>Vidhya Nale</li> <li>Vaishali Londhe</li> <li>Richa Jarande</li> <li>Shraddha Shinde</li> <li>Onkar Khaire</li> <li>Jayvardhan Bagade</li> </ol>	Mrs. K. R. Jagtap
6	Isolation and characterization of probiotic bacteria from milk and yogurt sample	1. Mayur Bankar 2. Pooja Dhapte 3. Kajal Bhosale 4. Sajid Mujawar 5. Shivani Dombale 6. Jyoti Kulthe	Mrs .S. R. Shaikh
7	Isolation and identification of nitrogen fixation bacteria from soil sample	<ol> <li>Sudeshna mandlik</li> <li>Rutuja Bedake</li> <li>Shubham Shitole.</li> <li>Shrutika Mhetre</li> <li>Rupali Sirsat</li> <li>Ankita Chavan</li> </ol>	Miss. S. P. Owal
8	Isolation and characterization of lactic acid bacteria in dairy product ( milk and yogurt )	<ol> <li>Yogesh Yele</li> <li>Mayur Rupnawar</li> <li>Anjali Chande</li> <li>Shweta Kharade</li> <li>Pratiksha Salunkhe</li> <li>Aishwarya Patil</li> </ol>	Mrs. P. C. Bhosale
9	Isolation and characterization of amylase producing bacteria from soil	<ol> <li>Prashant rupnawar</li> <li>Priya Pande</li> <li>Shrutika Mane</li> <li>Rohini Gawali</li> </ol>	Miss. S. S. Shah

	<ul><li>5. Vrushali Gawade</li><li>6. Snehal Kale</li></ul>	
	7. Ganesh Karanjkar	

# **Botany:**

Sr. No.	Name of the Project	Name of Students	Name of Guide
1.	Survey and collection of seasonal plants from different areas	More Rupali Bapu Wagh Priyanka Bhausaheb	Dr. (Mrs.) R. D. Chitale
2.	Phytoremediation of saline soil by using salt tolerant plant species	Taware Rohit Dadaso Bankar Suraj Bhivaji Mohite Digvijay Prataprao	Dr. B. S. Mali
3.	Estimation of bioactive compounds from different plant sources	Lalage Vidya Satish Zende Kshitija Vikash Khomane Komal Sunil Kadam Supriya Nandraj	Dr. (Mrs.) M. P. Patil
4.	Effect of vehicular pollution on growth and development of roadside plants	Nale Shital Shankar Gawade Urmila Somnath More Kajal Laxman Shinde Shital Jyotiram	Dr. A. B. Telave
5.	Isolation, Identification and characterization fungi from crop field	Khomane Ranjeet R. More Aakash Abaji Gadhave Rahul Rajendra Sutar Vishal Jalindar	Dr. M. B. Kanade
6.	Antimicrobial assessment of bryophytes from ghat regions	Surve Usha Jalindar Gophane Pratiksha R Fulari Megha Gorakh	Dr. S. J. Chavan
7.	Ecophysiological studies on weeds from arid region	Thorat Tejashree Manoj Takale Harshada Vijay	Dr. (Mrs.) M. P. Patil

# Zoology:

Sr.	Name of the Project	Name of Students	Name of Guide
No.			
1.	Diversity of Dung beetles from	Ms. Sokate Vaishnavi Sunil	
	Baramati Tehsil	Ms. Wagh Supriya Mahadev	Dr. V.B.Nale
		Ms. Barage Monika Dattatray	
		Ms. Jain Pratiksha Santosh	
2.	Comparative Study of	Mr. Lonkar Dipak Gajanan	Mr S.L.Londhe
	Entomotoxicity & Antimicrobial	Ms. Tamhane Apurva Baban	
	Activity of Plant extract against	Ms. Waghmode Sagar Dnyandeo	
	Sitophilus Oryzae	Ms. Khomane Ashwini Shankar	
3.	Studies on degradation of Honey	Ms.Shivarkar Manali Vijay	Mr M.B.Atole
	bee venom protein by Neem	Ms.Rajmane Dhanshri Jaikumar	
	plant leaves aqueous extract.	Ms.Shinde Neha Sarjerao	

# Physics:

Sr. No.	Name of the Project	Name of Students	Name of Guide
1.	Thin films by thermal evaporation	Chandgude Dipti Digamber	Dr R D Kale
2.	Thin films by thermal evaporation	Chandgude Manali Digamber	Dr R D Kale
3.	Water level Controller	Dharmadhikari Vidhya Ramkrushna	Dr A E Kalange
4.	Synthesis of Silver Nan particles	Gadekar Nikita Dadaso	Dr R T Sapkal
5.	IR Transmitter and Receiver	Gaikwad Dhanshri Vishwanath	Dr A E Kalange
6.	Solar Tracking	Ghadge Vinayak Balasaheb	M K Kokare
7.	Wireless switching using IC CD 4027	Godase Mayur Bajrang	Dr A E Kalange
8.	Thin films by Spray Pyrolysis	Hambire Reshma Chandrashekhar	Dr V S Mohite
9.	Synthesis of Silver Nan particles	Jagtap Harshada Hanumant	Dr R T Sapkal
10.	Synthesis of Nanoparticles by Hydrothermal	Kaule Sonali Arun	Dr R T Sapkal
11.	Synthesis of Silver Nan particles	Kokate Aishwarya Rajendra	Dr R T Sapkal
12.	Thin films by Spray Pyrolysis	Mhetre Madhuri Sunil	Dr R T Sapkal
13.	Synthesis of Nanoparticles by Hydrothermal	Mohite Nisha Santosh	Dr R T Sapkal
14.	Mobile Projector	Patil Pranav Govind	Dr S B Kulkarni
15.	Thin Films by CBD	Phadtare Kajal Babaso	Dr V S Mohite
16.	Thin films by Spray Pyrolysis	Sankpal Nilam Narayan	Dr R T Sapkal
17.		Shelar Mohini Tukaram	

18.	Thin Films by CBD	Shinde Supriya Jyotiram	Dr V S Mohite
19.	Thin films by Spray Pyrolysis	Tamhane Yogita Pandurang	Dr V S Mohite
20.	Thin films by Spray Pyrolysis	Zol Mohini Bharat	Dr V S Mohite
21.	Atomatic washroom light switch	Jadhav Vinaya Narayan	Dr A E Kalange
22.	IR Remote Switch	Kulkarni Akshata Arvind	Dr A E Kalange

# 16. Faculty improvement activities such as training courses, seminar.

# Training course organized:

Sr.No	Title of Workshop	Name of Speakers	Participants	Date of Workshop
1	NET-SET	Dhawal V.Doshi	Microbiology-48	22/02/2018
	Preparation		Botany-48	
			Zoology-48	
			Total-114	
		Miss. T.D. Nadaf	Microbiology-48	
			Botany-48	
			Zoology-48	
			Total-114	
		Mr. Suresh Palve	Microbiology-48	
			Botany-48	
			Zoology-48	
			Total-114	

# **Training course (Participated): (Common to all)**

Sr.No	Title of	Organized By	<b>Participants</b>	Date of
	Workshop			Workshop
1	Application of	Tuljaram	10	12/12/18
	FTIR	Chaturchand College		
		Baramati		
2	One day	Shardabai Pawar	02	30/01/2018
	Workshop entitled	Mahila		to
	"Use of Statistical	Mahavidyalaya,		31/01/2018
	Tools in Research	Shardanagar		
	Data Analysis"			
3	SDS-PAGE	Tuljaram	10	08/02/2018
	Electrophoresis	Chaturchand College		to
		Baramati		09/02/2018
4	One day	Tuljaram	03	22/02/2018
	Workshop entitled	Chaturchand College		
	"NET- SET	Baramati		

	Preparation"			
5	Fermentor	Tuljaram	06	13/03/2018
	Demonstation	Chaturchand College		
		Baramati		

# 17. Outreach activities conducted and their impact / follow up

Sr.	Class	Name of students	Name of institute	Duration
No.				
1	S.Y.B.Sc.	Gawade Trupti	Ferrero India Pvt ltd	15 days
	Microbiology	Sonawane Kiran	MIDC, Baramati	
2	T. Y. B. Sc	Ms. Rahudkar Kajal	training in Explores &	Two
	Zoology	Bharat	Understand DNA by	days
			Bio Era Life Science	
			Private Ltd., Pune on	
			22 <sup>nd</sup> to 23 <sup>rd</sup> Aug. 2017	

# 18. Any outstanding achievement by student/faculty (merit, award, research paper, presentation in national/international conference/ etc; full citation to be provided)

### **Participation:**

Name of students	Type of event	Venue	Dates
Tamhane Apurva Baban	Avishkar at Zonal	BJ's Wagholi,	20-04-2017
Adagale Mansi Arvind	Level research	Pune	
	compitation		

# 19. List of Short term training courses/workshops conducted for students and faculty, including title, duration, no. of beneficiaries

Department	Title	Duration	No. of
			Beneficiaries
Microbiology	SDS- Gel Electrophoresis	08/02/2018 to	79
		09/02/2018	
	Application of FTIR	12/12/2018	31
	Workshop conducted by Bio-Era	22/08/2018 to	07
	Research and Development Pvt. Ltd.,	23/08/2018	
	Pune.		
	Soft Skill Development Programme	14/02/2018	31
	Motivational Training Programme.	02/08/2018	84

Botany	Application of FTIR	12/12/2018	?
	Soft Skill Development Programme	14/02/2018	?
	Motivational Training Programme.	02/08/2018	?
Zoology			
Physics	PCB Design and fabrication	08 to 13/01/ 2018	45
	ICANN 2017	7-9 Dec. 2017	50

# 20. Guest lectures:

# Microbiology:

Sr. No	Title of Guest	Name of Speakers	Participants	Date of
	Lectures			Lectures
1	Scientific	1) Dr.Deewane	48	07/03/18
	Communication	2) Dr.Bhole B.D		
		3) Dr.Kshirsagar V.J		
2	Research	Singh	79	31/01/2018
3	Recent Techniques in	Dr.paresh Vishawsrao	48	07/09/2017
	Immunology			

# Zoology:

Sr. No.	Name of Faculty	Designation	Host Institute	Duration of Visit	Topic of lecture / discussion	Participants
1	Dr. Saroj Ghaskadabi	Professor	Zoology Department, SPPU,Pune	30.01.2018	Genome organosation	35
2	Dr. Chanda Nimkar	Scientist	NARI, Phaltan	10.02.2018	New breed of sheep, Suwarna Nari.	35
3	Dr. Priyanka Dutta Saha	Assistant Professor	Modern College, Shivajinagar, Pune.	16.02.2018	Dragonfly & Damselfly	30
4	Dr. Netral Kulkarni	Assistant Professor	Modern College, Shivajinagar, Pune.	16.02.2018	Protein Synthesis	30

# Physics:

Sr. No	Title of Guest Lectures	Name of Speakers	Participants	Date of Lectures
1	Experimental Techniques in Physics	Dr K Y Rajpure	48	9/02/2018
2	Physics Experiments	Dr. V. H. Raybaghkar, Wadia College Pune	135	6/02/2018
3	NET/SET preparation	Prof. More T. B Prof. Ashok Kamble Prof Phadtre P Prof Borate H Dr Nimbalkar R Dr Kakade Sandip	55	15-20 /01/ 2018

# 21. Visits to industries, institutes etc (name of place, duration of visit and no. of students)

# Microbiology:

Name of place	<b>Duration of visit</b>	No. of Students
NIASM (National Intitutes of Abiotic	14/12/2017	15
Stress Management)		
Late Manikbai Chandulal Saraf Blood	13/03\2017	30
Bank		
Mala's Fruit Pvt. Ltd	12/01/2017	77

# Botany:

Name of place	<b>Duration of visit</b>	No. of Students
1. Department of Botany, Osmania University	04/02/2018 to	
Hyderabad		
2. Botanical Survey of India, Deccan circle,		15
Hyderabad		
3.Central Institute of Medicinal and Aromatic,		
Plants, Hyderabad		
Aundh, Kartikswami	17/02/2018	26

# Zoology:

Name of place	<b>Duration of visit</b>	No. of Students
Sericulture, Apiculture, Dairy Farm & Poultry at KVK, Baramati	19-08-2017	30
NIO, Goa.	15 <sup>th</sup> to 17 <sup>th</sup> Jan. 2018	27

# Physics:

Name of place	<b>Duration of visit</b>	No. of Students
Science Park at Pimpari-Chinchwad, Dist Pune And Muktangan Pune	21/02/2018	45

### 22. List of lab manuals / SOPs generated for all participating departments

# Microbiology:

- Spectrophotometer
- Colorimeter
- pH meter
- Autoclave
- Laminar air flow cabinet
- Cooling centrifuge

### **Botany:**

- Flame photometer
- UV- Vis spectrophotometer
- Microphotography
- BOD incubator

### **Zoology:**

- Spectrophotometer
- Colorimeter
- pH meter
- Autoclave

- Laminar air flow cabinet
- BOD incubator
- Rotary Shaker

#### **Physics:**

- Vacuum Evaporation and Electron beam Evaporation
- Spray Pyrolysis System
- Potantiostat
- Chemical Bath deposition
- Synthesis of Nanomaterials by Hydrothermal method

# Feedback mechanism adopted (to be indicated in term of how the quality of teaching and hands on training improved)

The college has a feedback mechanism for receiving and analyzing the student feedback on the various activities organized in the college. We have designed a feedback mechanism for the different activities conducted under STAR College scheme. The feedback is collected on specially designed form / students remarks on the register.

# 24. Any special innovative approach adopted by the college in improving the UG education

- Pre admission counseling
- Induction program
- Preliminary and term end examinations
- Soft skill program at entry and exit level
- Use of ICT for teaching
- Organization of guest lectures
- Use of ICT in teaching learning process.
- Animal films shown to the students
- Preparation of PPT's for teaching
- Use of Models
- Use of charts

# 25. A summary on "how the Scheme helped in strengthening of the UG education and what would not have been possible without this" (not more than 1000 characters)

The program helps to strengthen the laboratory and infrastructural facilities for the students. Hands on exposure to the various experiments improve the practical skills of the students. The scheme provides an opportunity to undertake project at S.Y. and T. Y. B. Sc. Level. Students learn how to design experiments, learn how to do referencing, research methodology and scientific writing from the minor research projects. The communication and soft skill program improve the skills among the students. Also, the exposure through guest lecturers provides an opportunity to interact with the experts/eminent scientist in the field.

Overall the scheme has played a significant role in thorough understanding of the subject and development of the students. DBT-STAR college scheme made us to achieve NAAC A+ Grade (CGPA 3.55) for 3<sup>rd</sup> cycle of NAAC accreditation. NAAC peer team interacted with students under STAR college scheme it was found that these students were more confident. The chairman of peer team was happy for their performance.

DBT – STAR college scheme also helped us to achieve best college awards and best Principal award from Savitribai Phule Pune University during the academic year 2016-17.

#### 26. Suggestions/feedback for improving the scheme

STAR college scheme is very good for the UG students for improving their overall skills in terms of their hands on experiments, communication skill and increasing their vision due to visit conducted to industry and research institutions.

We have following suggestions for improving the scheme.

- 1. We would be happy to know clear guidelines regarding the expenditure under the head "recurring grant" especially remunerations for resource persons.
- 2. If DBT identifies the names of scientist from different research institutes, it will be easier for us to place the students for summer training.

#### 27. DBT STAR College advisory committee.

#### **DBT Representative**

- 1. Dr. C. V. Murumkar Principal, Tuljaram Chaturchand College, Baramati
- 2. Dr. Suman Govil Advisor HRD, New Delhi
- Dr. Garima Gupta Scientist D, Nodal Officer for STAR College Scheme,
   Department of Biotechnology, Government of India,

#### New Delhi.

## **External Experts**

- 4. Dr. K. K. Krushnani Head School of Ediapetic Stress Management, National
  - Institute of Abiotic Stress Management (NIASM), Baramati
- 5. Dr. K. C. Ahire Dept. of Zoology, Savitribai Phule Pune University, Pune

# **Coordinator & Member Secretary**

6. Dr. S. J. Sathe - Coordinator

#### **Coordinator & Member Secretary**

- 7. Mrs. Y. R. Mulay Coordinator for Microbiology Dept.
- 8. Dr. A. B. Telave Coordinator for Botany Dept.
- 9. Dr. V. B. Nale Coordinator for Zoology Dept.
- 10. Dr. R. D. Kale Coordinator for Physics Dept.

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# **COORDINATORS DETAILS**



Name : Dr. Shivaji Jagannath Sathe

Designation : Coordinator DBT-STAR College Scheme

Associate Professor & Head,

Department of Microbiology

Vice Principal, Tuljaram Chaturchand College,

Baramati

Address: P. O. Box – 051, Baramati, Dist. Pune

413102 (Maharashtra)

# **COLLEGE LOGO**





































