

Shikshan Prasarak Sanstha's

Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe-Mahankal.

**Department of Commerce
Program and Course Outcomes
Bachelor of Commerce – B.Com
Year 2020-21**

Mechanism for framing Learning Outcomes and Measuring their Attainment

Step 1: Defining the Vision and Mission of commerce the Department.

Vision

1. To strengthen the teaching of commerce and applications of commerce
2. To occupy a significant place in the field of commerce by offering distinguished effective and on-going opportunities to the students.
3. To popularize the Department as center for excellence in Commerce.

Mission

1. To produce potential graduates having sound knowledge of major various concepts of Commerce.
2. To develop the entrepreneurship techniques that can be applied in various domains of research areas.
3. Promoting a culture of ethical behavior, social responsibility, and lifelong learning.
4. Better understanding of this interdisciplinary subject will result into fruitful outcomes for the betterment of science and society.

Step 2: Defining Program Outcomes (PO's) and Program Specific Outcomes (PSO's) of the program.

PO 1	Students can synthesize values through the three year degree program of Bachelor of Commerce which helps build character that is unique to a commerce graduate and contributes a lifelong way of thinking that influences their holistic development.
PO 2	After completing a three-year Bachelor of Commerce (B.Com.) course; Students will be able to apply comprehensive knowledge, understanding and ability to analyse financial data, interpret economic trends to make informed decisions
PO 3	The students will develop application skills in the domain of Accountancy, Management, Auditing, Taxation, Economics, Commerce, Costing, Marketing And Finance.
PO 4	This program improves logical thinking, statistical and accounting skills. Competing globally requires communication skills, confidence and practical awareness Employability in the corporate world and development into a resourceful and responsible citizen India.
PO 5	Students develop an entrepreneurial mind set, recognizing the

	importance of lifelong learning and staying updated with evolving business practices, regulations, and technologies
PO 6	The students will acquire the capacity to demonstrate decision making skills in the areas of accounting, taxation, advertising, economics, e-commerce and environment.

Program Specific Outcomes (PSO's)

After completion of **B. Com** Programme Students will be able to,

PO1: Maintaining books of accounts and small medium scale industrial units

PO2: Students will learn relevant managerial accounting career skill applying both quantity and quantitative knowledge to their future careers in business.

PO3: Aware the knowledge about basic concept corporate accounting

PO4: Builds abilities become successful entrepreneurs prepare a business plan set up and own venture.

Step 3: Defining Course Outcomes (CO's) of each course in a Program.

Course outcomes (CO's)

Course: 1 Management Principles and Application -Paper-I

CO01: To get an idea about motivation concept and theories

CO02: To develop their leadership skill, coordination and control, green management

Course2: *Management Principles and Application -Paper-II*

After completing this course, students will be able:

CO 01 To provide basic knowledge of concepts and principles of marketing.

CO 02 The students will be aware with four basic elements of marketing i.e.4Ps in detail and he will be armed with various Skills about branding, labeling and advertisement.

Course3: **Industrial Management Paper – I**

CO01 Understanding the concept Industrial Management, Work Environment

CO02 Acquaintance with the Plant Maintenance, Financial Management

Course4: **Industrial Management Paper – II**

CO01 Knowledge about the Human Resource Management.

CO02 Acquaintance with the Employee Training and Recent Trends in HRM

Course5: **Industrial Management Paper-III**

CO01 Understanding the Meaning concept of Production Management and PPC, Inventory Management

CO02 Acquaintance with the Productivity, Logistic Management

Course6 Industrial Management Paper-IV

CO01 Knowing the meaning and concept about the Employee Remuneration.

CO02 Acquaintance with the Industrial Relations, Employee Safety, Health and Moral, HR accounting.

Step 4: Defining relation between Course Outcomes (COs) and POs/PSOs for each course to obtain overall CO mapping with each POs/PSOs. (Course Articulation Matrix)

In this step, CO's of each course are mapped with PO's & PSO's. A correlation is established between CO's and PO's / PSO's in the scale of 0 to 3. 0 if there is no correlation between CO's and PO's / PSO's, 1 being low, 2 being median and 3 being high.

For example, suppose Program XYZ (say) has 4 PO's & 4 PSO's. Then, course articulation matrix for a course – 1 (say) with two CO's is as follows.

CO's – PO's & PSO's mapping matrix (1-low, 2-medium, 3-high, 0-No correlation)

CO's	PO's / PSO's							
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4
CO 1.1	2	0	1	1	2	0	1	1
CO 1.2	3	1	0	1	3	1	0	0

In the same way we have course articulation matrices for all courses in that Program.

CO's – PO's & PSO's mapping matrix (1-low, 2-medium, 3-high, 0-No correlation)

CO's	PO's / PSO's							
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4
CO 1.1	2	0	1	1	2	0	1	1
CO 1.2	3	1	0	1	3	1	0	0
CO 2.1	2	2	1	2	0	0	3	1
CO 2.2	1	2	1	0	1	0	3	2
CO 3.1	2	3	3	2	0	0	2	1
CO 3.2	3	2	2	2	1	2	3	3
CO 4.1	2	2	1	0	2	2	1	1
CO 4.2	1	1	2	0	1	1	1	3
CO 5.1	2	3	3	0	2	0	0	1
CO 5.2	0	2	3	3	3	2	1	0
CO 6.1	1	1	3	3	2	1	3	2
CO 6.2	3	0	2	1	3	2	0	2

Step 5: Development of overall CO's-PO's mapping matrix for all courses (Program Articulation Matrix).

The CO levels corresponding to each PO/PSO in course articulation matrix are averaged to obtain overall level of relation of course with each PO & PSO. For example, the overall relation of course – 1 (say) are reported the following matrix.

CO's	PO's / PSO's							
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4
CO 1.1	2	0	1	1	2	0	1	1
CO 1.2	3	1	0	1	3	1	0	0
Average ($X_{1,..,i}$)	2.5	0.5	0.5	1	2.5	0.5	0.5	0.5

Similarly, the overall level of relation of all the courses in the Program is established. These levels are reported in the matrix form and this matrix is called as the Program articulation matrix. For example, if the Program XYZ has 19 courses then the Program articulation matrix will be as follows.

Program Articulation Matrix

ID	Course name	$X_{i,..,1}$	$X_{i,..,2}$	$X_{i,..,3}$	$X_{i,..,4}$	$X_{i,..,5}$	$X_{i,..,6}$	$X_{i,..,7}$	$X_{i,..,8}$
C_1	Course_1	2.5	0.5	0.5	1	2.5	0.5	0.5	0.5
C_2	Course_2	1.5	2	1	1	0.5	0	3	1.5
C_3	Course_3	2.5	2.5	2.5	2	0.5	1	2.5	2
C_4	Course_4	1.5	1.5	1.5	0	1.5	1.5	1	2
C_5	Course_5	1	2.5	3	1.5	2.5	1	0.5	0.5
C_6	Course_6	2	0.5	2.5	2	2.5	1.5	1.5	2

Step 6: Methodology for measuring of Course Outcomes (CO's), Program Specific Outcomes (PSO's) and Program Outcomes (PO's) and setting up the target level.

In this step, methodology for measuring the attainment level of learning outcomes is defined and the target levels for the batch are defined.

➤ **Methodology for the attainment of learning outcomes for this year:**

Details of a Program:

- Name of the Program: XYZ
- Program has n_1 PO's, say, $PO_1, PO_2, \dots, PO_{n_1}$
- Program has n_2 PSO's, say, $PSO_1, PSO_2, \dots, PSO_{n_2}$

Let $n = n_1 + n_2$, total number of PO's and PSO's.

- For convenience, let us denote the PO's & PSO's $PO_1, PO_2, \dots, PO_{n_1}, PSO_1, PSO_2, \dots, PSO_{n_2}$ by P_1, P_2, \dots, P_n

- Program has m courses, say, C_1, C_2, \dots, C_m
- Each course C_i has k course outcomes (CO's) denoted as $CO_{i,1}, CO_{i,2}, \dots, CO_{i,k}$, $i = 1, 2, \dots, m$, and k represents the number of outcomes particularly that of course.

Course articulation matrices and Program articulation matrix are obtained as discussed in previous steps. Let $X_{i,j,l}$ be the level of correlation of $CO_{i,j}$ with P_l where, $i = 1, 2, \dots, m$, $j = 1, 2, \dots, k$, $l = 1, 2, \dots, n$. Then, the overall CO levels with PO's & PSO's of course C_i is computed as $X_{i,l} = \frac{1}{k} \sum_{j=1}^k X_{ijl}$ Here k be the number of outcome in the average course taken.

➤ Attainment of COs:

The CO attainment levels are measured based on the results of the internal assessment and external examination conducted by the university. The CO attainment level based on internal assessment and external assessment are computed separately.

Attainment levels based on internal/external assessment method are defined as follows:

Level 1: Average of student marks belongs to the class 0% - 20% for that assessment method

Level 2: Average of student marks belongs to the class 20% - 40% for that assessment method

Level 3: Average of student marks belongs to the class 40% - 60% for that assessment method

Level 4: Average of student marks belongs to the class 60% - 80% for that assessment method

Level 5: Average of student marks belongs to the class 80%-100% for that assessment method

Let ALC_E and ALC_I be the CO attainment level of the course based on external assessment and internal assessment respectively. The overall CO attainment of the course is calculated by taking 100% weightage to external assessment.

$$ALC = ALC_E.$$

Let $ALC_1, ALC_2, \dots, ALC_m$ be the attainment levels of the courses C_1, C_2, \dots, C_m respectively.

The overall course attainment levels are categorized as below,

Level 1: Poor – if $0 < ALC_i \leq 1$,

Level 2: Average – if $1 < ALC_i \leq 2$,

Level 3: Good – if $2 < ALC_i \leq 3$,

Level 4: Very Good – if $3 < ALC_i \leq 4$,

Level 5: Excellent – if $4 < ALC_i \leq 5$

For every course, we have set Good – Attained as target level that is we are aiming minimum level 3 (good) and how the course status is attained in the performance of abilities of students.

At the end we will have attainment levels of all the courses,

ID	Course name	$X_{i, \dots, 1}$	Level	Status
C_1	Course_1	3	Good	Attained
C_2	Course_2	3	Good	Attained
C_3	Course_3	4	Very Good	Attained
C_4	Course_4	4	Very Good	Attained
C_5	Course_5	4	Very Good	Attained
C_6	Course_6	4	Very Good	Attained

Step 7: Calculation of attainment levels of PO's and PSO's.

➤ **Attainment of PO's & PSO's:**

The attainment of PO's & PSO's are calculated using direct method. In direct method the attainment of PO's & PSO's are calculated through the attainment levels of courses. The course attainment values (ALC_i , $i = 1, 2, 3, \dots, m$.) and the overall level of relation of course with each PO and PSO ($X_{i, \dots, l}$, $i = 1, 2, 3, \dots, m$, $l = 1, 2, 3, \dots, n$.) are used to compute direct attainment level of each PO and PSO.

Direct Assessment: Direct attainment level of the l^{th} , PO's & PSO's is calculated as follows.

$$DALP_l = \frac{1}{\sum_{i=1}^m ALC_i} \sum_{i=1}^m x_{i,l} * ALC_i, l=1,2,\dots,n.$$

ID	Course name	ALCi	$X_{i, \dots, 1}$	$ALC_i * X_{i, \dots, 1}$
C_1	Course_1	3	2.5	7.5
C_2	Course_2	3	1.5	4.5
C_3	Course_3	4	2.5	10
C_4	Course_4	4	1.5	6
C_5	Course_5	4	1	4
C_6	Course_6	4	2	8
Sum		22		40
$DALP_l = 40/22$				1.8182

Similarly, we have to find attainment levels of all PO's and PSO's.

Sr. No.	ALC_i	$X_{i, \dots, 1}$	$X_{i, \dots, 2}$	$X_{i, \dots, 3}$	$X_{i, \dots, 4}$	$X_{i, \dots, 5}$	$X_{i, \dots, 6}$	$X_{i, \dots, 7}$	$X_{i, \dots, 8}$
1	3	2.5	0.5	0.5	1	2.5	0.5	0.5	0.5
2	3	1.5	2	1	1	0.5	0	3	1.5
3	4	2.5	2.5	2.5	2	0.5	1	2.5	2
4	4	1.5	1.5	1.5	0	1.5	1.5	1	2
5	4	1	2.5	3	1.5	2.5	1	0.5	0.5
6	4	2	0.5	2.5	2	2.5	1.5	1.5	2
Sum	22	11	9.5	11	7.5	10	5.5	9	8.5

Sr. No.	ALC_i^* $X_{i, \dots, 1}$	ALC_i^* $X_{i, \dots, 2}$	ALC_i^* $X_{i, \dots, 3}$	ALC_i^* $X_{i, \dots, 4}$	ALC_i^* $X_{i, \dots, 5}$	ALC_i^* $X_{i, \dots, 6}$	ALC_i^* $X_{i, \dots, 7}$	ALC_i^* $X_{i, \dots, 8}$
1	7.5	1.5	1.5	3	7.5	1.5	1.5	1.5
2	4.5	6	3	3	1.5	0	9	4.5
3	10	10	10	8	2	4	10	8
4	6	6	6	0	6	6	4	8
5	4	10	12	6	10	4	2	2
6	8	2	10	8	10	6	6	8
Sum	40	35.5	42.5	28	37	21.5	32.5	32
$DALP_i$	1.8182	1.6136	1.9318	1.2727	1.6818	0.9773	1.4773	1.4545

Step 8: Comparison of target level with obtained PO attainment.

In this step the target level of PO's and PSO's attainment are compared with obtained $DALP_i$

Attainment levels are defined as stated below.

Level 1: Poor – if $0 < ALC_i \leq 1$,

Level 2: Average – if $1 < ALC_i \leq 1.5$,

Level 3: Good – if $1.5 < ALC_i \leq 2$,

Level 4: Very Good – if $2 < ALC_i \leq 2.5$,

Level 5: Excellent – if $2.5 < ALC_i \leq 3$.

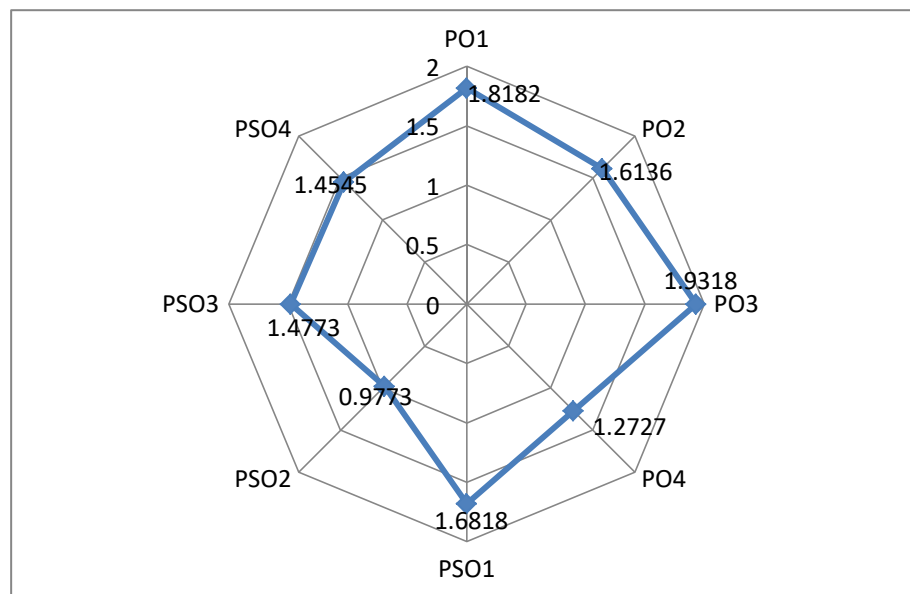
For every PO's and PSO's, we have set level 3 as target level that is we are aiming minimum level 3 (good) in the performance of abilities of students.

Attainment level of all the POs and PSOs

PO's	$DALP_i$	Level	Status
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PO1	1.8182	Good	Attained
PO2	1.6136	Good	Attained
PO3	1.9318	Good	Attained
PO4	1.2727	Average	Not Attained
PO5	1.6818	Good	Attained
PO6	0.9773	Poor	Not Attained
PO7	1.4773	Average	Not Attained
PO8	1.4545	Average	Not Attained

P_i attainment target level say, 3, indicates that, the department is aiming minimum level-3 (good) in the performance of abilities of students.



Step 9: Planned actions

Remedial Actions:

Planned actions for course attainment: Courses having course level less than level-3 are addressed by designing the different remedial measures like assignment/tutorials/remedial teaching.

Planned actions for program outcome attainment: PO's and PSO's with level attainment less than level-3 are addressed by planning remedial measures for the corresponding courses with respect to than P_i .

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Student Marklist

PR N	Student Name	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	C 13	C 14	C 15	C 16	C 17	C 18	C 19	C 20	C 21	C 22	C 23	C 24	C 25	C 26	C 27	C 28	C 29	C 30	C 31	C 32	C 33	C 34	C 35	C 36
274 804 2	!ATHAVAL E NAKUSA SHRIDHA R	27	19	25	30	23	24	26	30	35	20	27	22	28	42	31	44	46	20	31	40	43	26	38	33	27	37	27	27	27	27	41	38	43	28	36	38
274 514 2	BABAR DNYANE SHWAR ANANDR AV	25	27	20	19	37	25	19	22	22	26	34	18	35	43	28	44	40	29	34	27	24	24	35	24	32	24	24	24	38	43	45	38	38	40		
275 412 4	BABAR GANESH SAMBHA JI	18	18	18	24	24	18	18	27	25	23	22	35	38	26	38	40	26	18	18	26	18	22	20	22	31	22	22	22	28	27	43	38	33	33		
274 582 5	BANSOD E AJIT SURESH	19	23	21	27	20	24	33	39	19	24	41	41	45	36	40	36	34	26	46	26	23	31	33	33	33	33	33	33	41	43	46	38	38			
274 668 1	!BANSOD E DIKSHA SHIVKUM AR	22	18	22	29	18	19	28	26	18	20	29	33	40	28	38	28	21	22	40	24	25	22	24	32	24	24	24	46	35	42	41	40	44			
274 827 9	!BANSOD E	20	23	19	19	18	21	25	21	09	20	24	35	30	24	46	28	19	22	31	22	18	22	31	22	22	22	31	35	35	41	31	28				

274 551 7	CHAVAN RAJ ANIL	2 8	3 0	2 6	3 8	2 9	2 9	3 3	2 7	2 1	1 9	2 9	2 2	2 7	3 4	2 6	4 1	3 4	2 6	3 6	2 7	2 2	3 2	3 1	2 3	2 5	3 3	2 5	2 5	2 5	2 5	3 3	3 8	3 2	3 5	3 1	4 1
274 488 4	DESAI MAHESH RAMESH	2 9	2 9	3 1	3 5	2 9	3 3	3 1	4 1	2 7	3 2	3 3	4 2	3 5	4 1	3 5	4 3	4 6	3 4	3 0	3 1	4 1	2 8	3 4	2 4	3 4	3 4	3 4	3 4	3 4	3 4	3 9	4 6	4 2	4 7	4 2	4 4
274 676 5	DESAI SHIVANA ND DADASO	1 8	1 8	2 5	1 8	3 4	1 9	1 8	2 7	2 5	2 0	3 2	4 1	3 2	2 5	4 3	4 0	2 4	1 8	1 8	2 0	1 8	1 8	2 4	2 5	3 2	2 5	2 5	2 5	2 5	3 9	4 3	4 3	3 9	3 5	3 5	
274 572 3	DHOBLE ANIKET BALU	1 8	2 8	2 2	1 9	1 8	2 0	2 3	3 4	2 4	1 4	1 8	2 4	4 1	3 7	2 7	4 3	3 6	2 6	1 8	2 6	2 4	2 1	3 8	2 1	3 4	2 2	2 4	2 4	2 4	4 4	4 6	4 8	3 3	4 0	3 6	
275 264 2	DUDHAL HARSHA VARDHA N TUKARA M	1 8	3 0	2 0	1 8	2 3	1 8	1 8	4 0	1 9	1 8	2 0	3 6	3 1	4 0	2 8	3 6	3 8	3 2	2 5	2 0	2 6	1 9	2 3	1 8	2 4	2 0	2 2	3 2	3 5	3 8	4 5	4 1	4 6	2 3	3 4	
274 820 3	! GADADE RUPALI RAMCHA NDRA	1 8	3 8	4 0	3 2	3 4	3 3	3 0	2 5	3 3	3 0	3 8	3 6	4 1	3 8	2 9	3 9	4 8	3 0	3 2	3 7	4 3	3 1	3 8	3 8	3 1	3 1	3 1	3 1	2 3	4 1	4 2	4 3	4 3	3 4	3 8	
	GAIKWA D ANIKET LAVHU	2 0	2 5	1 9	1 8	1 8	1 8	2 4	2 9	2 0	2 6	1 8	2 2	3 1	4 0	2 1	3 9	3 9	2 2	1 8	2 2	1 8	1 8	2 5	1 8	2 1	2 1	2 1	2 1	3 1	3 9	4 0	3 1	4 0	3 5	2 7	3 2
275 550 3	GAIKWA D MAHESH MUKUND	1 8	3 1	1 8	2 1	2 1	1 9	2 0	2 4	1 8	1 8	2 9	3 4	3 5	2 8	4 3	4 6	3 2	2 8	2 8	2 0	2 4	2 3	1 8	2 1	3 0	2 1	2 1	2 1	2 1	3 9	4 3	4 5	4 1	4 8	3 8	4 0
291 740 8	! GAVALI ROSHANI DEVI HIRAMAN	2 1	2 4	2 1	2 1	1 9	2 4	2 5	2 2	1 8	2 3	1 8	2 5	3 2	2 1	2 7	2 8	2 9	3 2	2 8	2 7	2 9	2 7	3 2	2 2	3 1	2 2	2 2	2 2	2 2	3 0	3 9	3 8	3 9	3 8	2 9	3 6
275 313 0	GHORAP ADE SURAJ NANDKIS HOR	1 8	1 9	1 8	2 7	2 0	2 4	2 5	2 7	1 9	1 8	2 4	3 0	4 1	3 4	3 2	3 5	2 8	3 6	2 6	2 5	3 0	2 8	2 7	2 8	3 4	2 4	2 4	2 4	2 4	4 4	4 1	4 0	4 4	4 4	3 5	3 6
274 807 4	! GUJALE POONAM BALU	2 7	2 5	4 0	2 1	2 4	2 4	2 1	2 2	2 0	2 2	3 8	4 2	3 1	2 5	3 4	3 6	3 7	3 1	2 8	3 2	2 1	2 4	2 5	2 4	3 2	2 4	2 4	2 4	2 4	3 9	4 4	4 3	4 7	4 9	2 6	
275 451 9	HAKE HARISH LAXMAN	1 8	2 4	2 4	2 5	1 8	1 8	2 3	2 4	1 8	1 8	2 3	2 5	3 6	4 4	2 9	4 3	4 6	2 4	2 4	2 8	3 3	2 1	3 0	3 4	2 2	2 2	2 2	2 2	2 2	3 8	4 3	4 5	4 1	4 0	4 0	
274 661	HANGE NITIN	1	2	3	2	1	2	2	2	1	2	1	2	2	2	2	3	4	2	1	2	1	1	2	2	2	3	2	2	2	2	3	4	4	3	3	3

7	BALU	8	1	8	0	8	0	4	4	8	8	9	4	5	9	9	6	2	4	8	4	8	8	2	6	3	1	3	3	3	3	5	3	2	1	5	9	
274 944 8	! HANKAR E MAMATA SUBHAS H	1 9	2 5	2 5	3 2	2 8	3 6	3 3	2 6	2 6	1 9	2 7	3 3	4 4	3 6	3 3	4 6	2 2	3 0	2 9	4 5	2 8	3 2	3 7	2 7	3 7	2 7	2 7	2 7	2 7	3 9	4 1	3 2	4 3	4 8	3 6		
275 276 5	JADHAV PRAVIN ANIL	0	2 0	2 6	2 2	1 8	2 2	2 0	2 7	2 2	1 8	2 2	2 9	3 5	2 2	4 1	4 2	2 6	1 8	2 4	1 9	2 0	2 3	2 0	2 2	2 2	2 2	2 2	2 2									
274 789 7	! JADHAV PRIYANK A ASHOK	1 8	2 1	2 2	2 7	3 0	3 7	3 0	2 2	3 0	2 4	3 8	1 5	2 8	3 5	2 8	3 8	3 4	2 2	3 3	2 0	2 6	3 3	4 1	2 2	3 7	2 7	2 7	2 7	2 7	4 1	4 1	4 5	4 6	4 4	4 8		
274 480 8	! JAGTAP PRATIKS HA PRAKAS H	1 8	1 8	4 0	2 7	2 4	2 1	2 6	2 4	2 1	2 0	3 2	3 8	3 6	3 4	3 1	3 3	2 9	2 6	3 5	2 6	2 3	2 0	2 2	2 7	3 3	2 7	2 7	2 7	2 7	3 9	4 4	4 5	4 3	4 1	4 4		
	! JAGTAP SUCHITA SHIVAJI	3 4	2 4	2 4	3 0	2 0	2 5	3 6	3 0	2 8	2 8	3 7	3 9	3 9	3 0	1 8	3 9	3 2	2 4	3 4	2 4	3 4	2 6	3 6	2 1	3 6	3 1	3 1	3 1	3 1	3 1	3 1	3 1	3 1	3 1	2 8		
275 265 4	KADAM ABHIJIT BABASA HEB	1 8	2 3	2 2	1 8	2 3	1 8	1 9	2 6	1 8	2 5	2 1	3 8	3 6	4 2	2 8	4 1	3 9	3 6	1 8	2 5	1 8	2 0	2 8	3 5	2 5	2 5	2 5	2 5	2 5	4 1	4 1	4 5	4 1	4 9	3 9		
275 329 9	KADAM MARUTI LAXMAN	2 0	2 1	1 8	1 9	1 8	2 1	2 6	2 7	2 0	1 8	1 8	1 8	3 5	3 8	2 8	4 1	4 2	2 9	2 6	2 6	2 3	1 8	2 4	1 9	1 9	2 9	1 9	1 9	1 9	2 8	3 8	4 0	3 5	3 6	2 4		
275 310 9	KADAM PRAMOD RAMCHA NDRA	1 8	3 1	2 0	1 8	1 8	1 9	2 2	2 6	2 2	1 8	2 3	1 8	3 8	3 8	2 2	4 1	4 3	3 0	2 7	2 5	1 8	2 4	2 2	1 8	2 2	3 1	2 2	2 2	2 2	2 2	2 2	2 2	2 2	3 5	4 0	3 5	2 0
275 407 8	! KALE PRAJAKT A SANJAY	1 8	2 7	2 2	1 8	2 2	1 8	2 3	2 2	2 3	1 8	2 6	3 3	3 5	2 2	3 1	3 8	3 7	2 6	2 9	2 8	2 1	2 6	1 8	2 4	3 2	2 4	2 4	2 4	2 4	3 5	3 5	3 5	3 8	3 3	3 6		
277 097 3	KALE SHANTA NU JAYDEV	1 8	3 1	2 4	2 3	2 4	2 1	2 6	2 1	2 0	1 8	1 8	2 2	3 5	2 9	2 8	3 3	2 9	3 0	1 8	3 3	1 8	1 8	2 7	1 8	2 1	3 0	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	3 2	
275 114 5	KAULAP URE ONKAR SAKHAR AM	1 8	1 8	2 3	1 8	1 8	1 8	1 8	2 1	1 9	1 8	2 2	3 6	3 5	3 2	2 5	3 8	3 9	2 4	1 9	2 2	1 8	1 8	1 8	1 8	2 2	3 1	2 2	2 2	2 2	2 2	3 8	3 9	2 9	3 9	3 9	3 8	
275 423	KHOT ABHIJEE	1 8	2 1	2 2	2 1	1 8	1 8	2 6	2 3	2 8	2 0	2 8	3 2	3 5	2 4	2 4	3 6	4 2	3 6	2 7	3 0	2 7	3 0	2 8	2 0	2 6	3 8	2 6	2 6	2 6	2 6	3 8	3 8	3 7	4 1	2 7	3 2	

274 799 2	! MALI VAISHALI SIDDHEH WAR	2 2	3 4	2 2	2 7	2 9	2 2	2 9	3 0	3 5	2 4	3 7	2 0	3 5	3 5	2 8	3 3	4 8	3 0	3 3	4 4	2 4	3 4	3 3	2 9	3 5	2 9	2 9	2 9	2 9	3 8	4 3	4 0	4 3	2 4	3 6	3 5
274 707 3	! MANE PRATIKS HA PRABHA KAR	2 6	3 5	2 5	3 6	3 5	3 7	3 3	3 6	2 5	2 8	3 7	2 4	3 3	4 3	3 0	4 6	2 4	3 4	3 6	4 8	3 3	4 0	3 8	3 1	3 5	3 1	3 1	3 1	3 1	3 3	3 3	4 3	3 0	4 3	3 6	3 2
	MANE ROHIT RAMCHA NDRA	1 8	3 4	1 8	3 4	1 9	2 5	2 1	2 6	1 8	1 9	2 3	3 0	3 9	3 2	2 7	3 6	2 3	2 9	1 8	1 8	3 1	2 2	3 3	2 3	2 3	2 3	2 3	2 3	2 3	2 8	4 1	3 7	4 6	3 3	3 9	
275 061 2	! MANE SAYALI JAGNNA TH	2 7	2 5	2 3	3 1	2 5	2 8	3 3	2 6	2 5	2 1	3 2	2 6	3 0	3 7	2 8	4 1	2 8	2 4	3 1	2 5	2 4	3 2	2 7	2 7	2 7	2 7	2 7	2 7	4 1	3 9	1 9	2 9	3 3	2 4	2 4	
274 486 0	! MANE SONALI VISHVAS	2 2	3 3	2 6	2 3	3 3	2 4	2 3	2 1	3 5	2 1	2 7	2 6	3 9	3 2	2 9	3 3	4 6	2 9	3 7	3 7	3 9	2 0	2 9	2 6	3 3	2 6	2 6	2 6	2 6	3 3	4 1	3 5	3 6	2 9	3 5	
277 006 4	MIRAJKA R SOURAB H VASANT	1 8	2 2	2 0	1 8	2 0	2 5	1 9	2 9	1 8	2 8	2 1	3 0	3 6	4 2	3 6	4 3	3 9	2 9	1 8	2 1	1 8	1 8	2 2	2 4	2 4	2 4	2 4	2 4	4 4	3 9	4 2	4 4	4 4	3 4	3 6	
274 539 3	MORE SHRIDHA R BALIRAM	1 8	2 2	1 8	2 2	2 0	1 8	2 4	3 1	1 8	1 8	2 0	2 0	4 3	4 3	3 5	4 4	4 6	3 4	1 8	2 6	2 4	2 5	2 5	1 8	2 2	2 2	2 2	2 2	4 3	4 1	4 5	4 6	4 2	4 8	3 8	
275 315 2	! NIKAM PRAGATI MADAN	2 0	2 4	1 8	2 7	2 2	2 0	2 8	2 1	1 9	2 2	2 4	2 0	3 9	4 0	2 8	3 9	3 3	2 8	2 1	2 9	1 9	2 2	2 3	2 8	2 2	2 2	2 2	2 2	4 1	4 1	3 8	4 1	3 1	3 9		
274 550 9	! PANDIT PRAGATI PRASHA NT	1 9	2 9	2 6	2 8	3 1	2 0	3 8	3 0	2 7	2 8	2 8	3 3	3 9	4 1	3 3	4 1	4 2	3 0	3 2	2 9	4 2	2 7	4 6	3 1	3 1	3 5	3 1	3 1	3 1	3 1	3 3	3 3	4 6	3 3	3 0	3 0
274 692 7	! PATIL AKSHAT A TULASHI RAM	2 2	2 3	2 0	2 7	2 8	2 2	2 6	2 1	1 8	3 0	2 4	2 0	3 6	3 7	3 3	4 1	4 0	3 7	2 7	2 2	3 8	2 7	2 4	2 2	2 3	2 3	2 3	2 3	3 9	4 4	4 5	3 5	3 6	3 9		
275 069 9	! PATIL DHANAS HRI SANTOS H	1 8	2 9	1 9	2 4	1 8	2 7	2 5	2 1	1 9	3 2	2 1	2 2	3 3	3 6	3 6	3 9	3 9	3 4	2 8	2 0	2 1	2 2	2 2	2 3	2 3	2 3	2 3	2 3	3 6	3 9	3 2	3 6	3 6	3 7	3 7	
275 556	PATIL HARSHA	1	2	1	1	2	2	1	2	2	2	3	1	4	4	3	4	3	2	2	2	2	1	1	1	2	3	2	2	2	4	4	4	4	4	3	3

3	D DHANAN JAY	8	1	8	8	4	0	9	7	2	2	4	9	3	2	4	4	6	6	0	5	6	8	8	8	4	2	4	4	4	4	6	3	3	4	6	6	
275 067 0	! PATIL KOMAL PAPASO	2 0	2 0	1 8	2 1	2 0	2 4	2 6	2 1	2 8	2 3	1 9	1 4	4 3	4 4	3 3	4 6	4 0	4 8	1 0	2 0	4 0	2 6	2 2	2 1	2 0	2 1	2 1	2 1	2 1	4 3	3 5	3 7	4 1	3 4	4 0		
	PATIL MAHESH MADHUK AR	1 8	2 7	2 5	3 1	2 5	2 8	2 5	2 7	2 0	2 8	2 1	2 4	3 0	3 4	3 9	3 5	3 4	3 4	1 8	2 5	1 8	3 1	2 4	2 0	2 3	2 4	2 3	2 3	2 3	3 5	4 3	3 7	4 3	4 3	2 2	3 2	
274 554 4	! PATIL MRUNALI SHIVAJI	1 8	2 2	1 8	2 4	2 7	2 7	2 6	2 1	2 8	2 9	2 3	2 5	2 8	2 8	2 5	3 3	4 4	1 8	3 2	3 1	3 1	2 8	2 4	3 1	2 5	2 5	2 5	2 5	2 5	3 0	3 0	2 6	3 3	2 0	3 0	2 2	
274 481 2	! PATIL PRATIBH A VIJAY	3 1	2 9	2 9	2 7	2 4	3 1	2 8	2 8	2 9	3 4	2 9	3 8	3 5	3 4	2 5	3 3	4 2	3 4	3 4	3 8	4 1	3 1	2 5	2 9	3 1	3 6	3 1	3 1	3 1	3 1	3 1	3 8	3 8	4 0	4 6	3 6	3 6
274 560 6	! PATIL PRIYANK A SATISH	2 3	2 0	1 8	2 3	2 4	3 6	2 8	2 1	2 2	2 1	1 8	2 5	2 5	3 8	3 1	4 3	2 6	2 4	2 4	2 9	1 8	2 6	2 5	2 6	2 3	2 3	2 3	2 3	2 3	3 0	3 3	3 4	3 0	3 6	2 0	3 0	
274 495 6	! PATIL ROHINI NANDKU MAR	3 6	3 9	3 9	3 3	4 2	3 2	2 8	2 9	2 6	2 7	3 4	4 2	3 0	3 2	2 2	3 9	2 2	3 4	3 5	4 0	4 6	3 6	3 5	3 8	3 1	3 6	3 1	3 1	3 1	3 1	2 8	2 3	2 2	2 2	1 6	1 6	
275 441 5	PATIL SHIVAPR ASAD SUNIL	1 8	2 3	2 0	1 8	1 9	2 4	1 9	2 6	2 4	1 8	2 4	2 8	2 4	4 2	2 6	3 9	4 4	4 6	1 8	2 3	1 8	2 0	1 9	3 4	2 3	2 3	2 3	2 3	2 3	3 5	3 5	3 7	3 9	3 4	3 4	3 2	
291 751 4	! PATIL SHWETA RAJEND RA	2 2	1 8	2 1	1 9	2 5	2 0	2 5	2 1	2 9	1 8	1 0	3 2	4 1	3 5	2 5	3 8	3 1	3 3	2 7	2 1	2 0	2 5	2 3	2 8	1 0	2 0	2 0	2 0	2 0	2 0	2 8	2 5	4 2	3 9	2 6	4 1	
274 968 9	! PATIL SNEHAL DHONDI RAM	2 9	2 7	3 2	3 1	3 0	2 5	3 3	3 2	3 4	2 7	2 6	2 3	3 1	2 9	3 7	3 4	2 8	3 6	3 9	4 6	2 8	2 8	3 9	2 9	2 9	2 9	2 9	2 9	2 9	3 3	3 1	3 0	3 0	3 0	4 0	3 4	
275 068 4	! PATIL SNEHAL SURESH	1 9	2 0	1 8	1 8	2 8	3 5	2 5	2 2	1 9	2 6	2 2	2 4	2 7	3 6	3 1	4 0	3 0	3 4	2 6	2 3	1 9	2 6	2 9	2 3	2 2	2 3	2 3	2 3	2 3	3 6	4 3	4 3	3 5	4 0	3 0	3 0	
274 548 1	PATIL SOURAB H SUKHDE O	2 0	2 0	2 1	1 8	2 2	1 8	1 8	3 0	2 8	3 0	2 4	2 4	3 6	3 5	3 3	4 1	4 2	2 6	2 0	2 1	2 0	1 8	1 8	1 9	2 6	3 3	2 6	2 6	2 6	2 6	3 5	4 4	3 8	3 5	3 3	3 9	
274 950 8	! PATIL SUSHAM A SHIVAJI	1 8	1 8	4 1	1 9	2 6	2 2	2 4	2 5	2 3	2 2	4 0	2 5	3 1	3 9	2 6	3 9	2 2	2 8	3 5	3 9	2 7	3 2	3 5	2 7	3 3	2 7	2 7	2 7	2 7	2 7	3 0	2 8	2 9	3 1	4 0	3 4	

274 545 6	! SOUNDA DE SANIKA DATTA	2 4	3 2	1 9	3 0	2 6	2 8	3 4	2 5	2 4	1 8	2 0	2 0	2 7	3 8	3 0	3 1	4 6	2 8	2 5	2 0	3 3	3 1	2 4	2 7	2 4	3 2	2 4	2 4	2 4	2 4	3 9	3 8	3 5	3 0	3 0	2 8			
274 790 9	SURYAW ANSHI SAURAB H SUNIL	1 8	1 8	2 0	2 2	1 8	1 9	2 6	2 4	2 1	3 0	1 8	1 8	4 1	4 0	3 6	4 4	3 6	2 9	1 8	2 3	3 5	1 8	2 2	1 9	2 3	3 1	2 3	2 3	2 3	3 3	3 3	4 8	4 3	4 5	4 1	4 9	3 1	4 9	4 1
275 107 9	SURYAW ANSHI VINAYAK SURESH	2 0	1 8	1 8	1 9	1 8	1 8	1 8	3 0	2 5	2 3	2 8	3 2	4 1	4 0	2 7	4 1	3 2	2 9	1 8	2 4	1 9	1 8	3 1	1 9	2 4	2 8	3 0	3 2	1 2	2 4	4 1	3 8	3 8	3 8	3 8	2 9	3 9	2 9	3 2
275 434 8	SUTAR ROHAN VIJAY	1 8	2 3	1 8	2 1	1 8	2 8	2 0	2 2	2 2	1 8	3 6	1 8	3 8	4 0	3 4	4 3	4 4	2 8	2 3	1 8	2 0	1 9	2 0	1 8	2 3	3 1	2 3	2 3	2 3	2 3	4 3	4 1	4 2	4 8	3 0	4 8	4 0	3 6	
275 063 9	! SUTAR SARIKA RAMCHA NDRA	1 8	2 8	3 3	2 7	2 7	2 5	3 3	4 0	2 5	2 2	2 2	1 9	4 1	3 8	3 0	3 5	4 4	3 0	2 8	2 6	3 4	3 1	2 1	2 4	2 7	3 3	2 7	2 7	2 7	2 7	3 5	4 1	4 0	4 3	4 4	4 3	3 4	3 6	
274 540 5	SUTAR SWAPNIL MAHADE V	1 8	1 8	3 6	2 1	1 8	1 8	2 2	2 5	2 4	3 0	1 8	1 9	3 3	2 7	4 3	3 3	3 4	2 4	2 0	2 1	3 0	3 9	1 6	2 8	2 3	3 3	2 3	2 3	2 3	2 3	4 3	3 9	4 3	4 3	3 5	3 7	4 2		
274 485 2	SUTAR VISHWAJ IT VITTHAL	1 8	1 8	1 8	2 0	1 9	1 8	1 8	2 6	1 8	2 6	2 8	1 8	2 7	3 0	2 9	3 5	3 8	2 3	2 0	1 8	2 0	2 7	2 0	1 9	2 2	3 1	2 2	2 2	2 2	2 2	3 5	3 6	2 4	4 2	3 0	4 0	3 0	2 0	
274 483 3	TAMBOLI SADDAM GAFUR	2 4	2 0	1 8	2 2	2 3	2 1	2 9	2 0	2 1	1 8	2 4	1 9	3 1	4 0	3 2	4 3	3 2	2 4	1 8	2 1	2 2	2 2	2 8	2 2	3 1	2 2	2 2	2 2	2 2	3 6	4 3	4 0	4 3	4 3	4 3	3 3	3 1		
274 564 6	! THORAT PRATIKA BALASAH EB	1 9	3 0	2 8	3 2	3 3	2 8	3 5	2 4	3 0	2 0	2 5	2 0	4 1	4 0	2 8	3 3	4 8	4 0	3 1	2 6	1 9	2 8	2 5	2 6	2 6	3 3	2 6	2 6	2 6	2 6	3 3	4 1	4 2	4 3	4 4	4 3	2 4	3 6	
	! TODKAR AVANTI TANAJI	2 5	2 7	3 7	2 2	2 7	3 1	3 1	2 0	2 4	1 8	2 8	2 6	3 6	3 2	3 5	4 4	2 2	2 0	3 3	4 0	2 8	2 6	3 1	2 2	3 2	2 2	2 2	2 2	2 2	3 0	2 7	2 2	2 5	2 8	3 8	3 6			
275 267 2	! VAJRAW AD SAMEEN A KAMALS AB	3 0	3 0	3 4	3 1	2 8	2 8	3 3	2 2	2 3	1 9	4 2	1 8	4 1	3 8	2 9	3 9	3 2	3 0	2 5	3 9	2 6	2 9	4 0	3 2	2 2	3 1	2 2	2 2	2 2	2 2	3 6	3 8	2 2	3 6	4 2	4 2	3 6		

274 582 1	WAGHAM ARE SWAPNIL RAJARA M	1 8	2 4	4 0	1 9	1 8	1 8	2 3	3 1	2 6	1 9	4 2	2 5	4 3	4 3	3 3	4 4	4 4	3 6	2 1	2 7	4 2	1 9	1 8	2 1	2 8	3 4	2 8	2 8	2 8	2 8	4 4	4 1	4 5	4 4	4 4	3 6	3 6			
290 862 6	! WAGHMA RE AISHWA RYA UMESH	1 9	2 8	1 8	1 8	2 3	1 8	2 8	2 2	2 6	2 1	1 8	2 0	2 7	3 0	2 8	3 3	4 4	2 8	2 5	2 6	2 5	2 1	3 4	2 3	2 3	3 1	2 3	2 3	2 3	2 3	2 3	2 3	3 3	3 0	3 2	2 3	2 0	2 4		
291 743 8	! WAGHMA RE ANJALI BHARAT	1 8	1 8	3 2	2 8	1 8	1 9	2 1	2 7	2 2	2 4	3 6	2 2	3 5	3 5	2 4	3 9	3 5	2 7	2 2	1 8	3 5	1 9	1 8	1 8	2 5	3 3	2 5	2 5	2 5	2 5	2 5	4 1	4 1	3 8	4 3	4 8	2 8	3 7		
275 408 8	! WAVARE KAJAL MARUTI	1 8	1 8	1 9	2 3	2 1	1 8	3 0	3 0	2 5	1 8	1 8	1 8	3 9	4 3	3 0	4 1	3 4	2 8	2 5	2 6	2 0	2 3	2 7	2 2	2 3	3 2	2 3	2 3	2 3	2 3	2 3	2 3	2 3	2 3	4 4	4 7	4 0	4 1	3 1	4 1
275 420 1	YADAV PRAMOD KRUSHN ADEV	1 8	3 8	3 9	2 6	3 5	4 0	2 8	3 2	2 6	2 3	2 4	2 3	3 0	4 3	2 3	3 5	3 1	2 6	3 3	3 0	4 3	3 4	3 6	3 7	2 2	3 1	2 2	2 2	2 2	2 2	2 2	2 2	3 1	3 5	2 2	3 1	2 7	3 6		
275 443 9	YADAV SUNIL SHIVAJI	1 8	1 8	1 8	2 8	1 8	2 8	2 2	2 2	1 9	3 0	2 6	1 8	4 4	3 8	3 6	3 8	3 1	2 9	2 0	1 8	1 8	2 9	2 3	3 4	2 3	3 1	2 3	2 3	2 3	2 3	2 3	2 3	2 3	2 3	3 5	3 9	3 0	4 3	3 3	3 4