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CONTENTS

Research Papers	
MIXED CONVECTION FLOWS WITH VISCOUS DISSIPATION IN A VERTICAL DOUBLE-PASSAGE CHANNEL CONTAINING PERMEABLE FLUID	1 – 10
SUVARNA D. KAMBLE AND DR. SHARADKUMAR V. JAGTAP	
RELATIONSHIP BETWEEN SELF-COMPASSION AND RESILIENCE	11 – 13
DR. D. SUMATHI AND J. ANGELIN DEVAKUMARI	
A SEMANTIC TRANSFER OF ENGLISH WORDS FOR ACCESSING ENGLISH TEXT IN HINDI	14 - 16
VIVEK DUBEY, H. R. SHARMA, DINESH B. HANCHATE AND VAISHALI RAHATE	
ON HOMOGENEOUS QUADRATIC WITH FIVE UNKNOWNS $4w^2-x^2-y^2+z^2=16t^2$	17 – 20
A. VIJAYASANKAR, SHARADHA KUMARAND M. A. GOPALAN	
EFFECTS OF ROTATION AND MAGNETIC FIELD ON THERMOSOLUTAL CONVECTION IN ELASTICO- VISCOUS WALTERS' (MODEL B') NANOFLUID WITH POROUS MEDIUM	21 – 30
PUSHAP LATA SHARMA, DEEPAK AND ASHOK KUMAR	
KNOWLEDGE OF GUJJAR RESPONDENTS RELATED TO POSTNATAL CARE IN DODA DISTRICT (J&K)	31 – 36
SAMIRIDHI ARORA AND SANYA KHAN	
THE INFLUENCE OF FRENCH LANGUAGE IN THE PRESENCE OF ARABIC LANGUAGE IN NORTH AFRICA	37 – 46
HUSAIN ABID RIZVI	
ON THE PRINCIPLE OF EXCHANGE OF STABILITIES IN A DARCY-BRINKMAN POROUS MEDIUM FOR A RIVLIN-ERICKSEN FLUID PERMEATEDWITH SUSPENDED PARTICLES USING POSITIVE OPERATOR METHOD	47 – 55
PUSHAPLATA SHARMA, ASHOK KUMAR AND G. C. RANA	
INTERDEPENDENCY OF TWO GRAND THEOREMS OF FUNCTIONAL ANALYSIS: A BAIRE-FREE APPROACH	56 – 59

ABHIJIT KONCH

BLENDED LEARNING: A COMBINATION OF THEORETICAL & PRACTICAL ASPECT	60 – 62
NEHA SHRMA	
CONSUMER CONTRACTS IN E-COMMERCE: A CRITICAL ANALYSIS OF INDIAN LEGAL FRAMEWORK THROUGH THE LENS OF CONSUMER PROTECTION	63 – 72
DR. JEHIRUL ISLAM	
EXAMINING THE EFFECTIVENESS OF BOSS-SUBORDINATE RELATIONSHIP AIMING TO EMPLOYEES' PERFORMANCE AND ATTITUDE	73 – 86
RITIKA GUPTA AND DR. SAROJ KUMAR SAHOO	
HEALTH CONSEQUENCES OF FEMALES GENITAL MUTILATION: A THEORETICAL PERSPECTIVE	87 – 92
MS. HARSHITA JAIN	
INVESTIGATING RAKE ANGLE'S EFFECT ON METAL MACHINING MECHANICS AND SURFACE TOPOGRAPHY	93 – 97
S. NAGAKALYAN, M. RAMALINGA REDDY AND S.V. RANGANAYAKULU	
ON THE HOMOGENEOUS CONE $z^{2} = (2k^{2} - 2k + 22)x^{2} + y^{2}$	98 – 103
A. VIJAYASANKAR, SHARADHAKUMAR AND M. A. GOPALAN	
A NOVEL PROBABILITY GMM-UBM SUPERVECTOR METHOD FOR SPOKEN INDIAN LANGUAGE RECOGNITION SYSTEM	104 – 110
DR. B. CHANDRASEKARAM	
WHY CHILD ARE VICTIMISED TO SEXUAL OFFENCES WITH SPECIAL REFERENCES TO POCSO ACT	111 – 118
E. KEERTHIREKHA AND ANUHYA VENKAT PADMA NIDADAVOLU	
MAGNESIUM OXIDE NANOPARTICLES AS A NOVEL ADSORBENT: PREPARATION, CHARACTERIZATION AND REMOVAL OF REACTIVE BLUE 19 FROM AQUEOUS SOLUTIONS	119 – 122
M. N. NAFISA BEGAM, D. ANGELINE KIRUBA, T. MALARVIZHI*, DEEPIKA V AND SARANYA MUTHUMATHY K	
A STATE OF THE-ART OF SUMS, CONGRUENCE RELATIONS AND DIVISIBILITY PROPERTIES OF PELL AND PELL-LUCAS NUMBERS	123 – 129
P. SANDHYA AND V. PANDICHELVI	
STRATEGIC PLANNING AT PANORAMA LTD.	130 - 132
DR SARIT PRAVA DAS AND DR ARPITA PANDEY	
MORDELL'S EQUATION WHICH HAS NO SOLUTION FOR CERTAIN SELECTION OF K	133 – 135

P. SANDHYA AND V. PANDICHELVI

NATIONALIZATION TO PRIVATIZATION: DO PUBLIC SECTOR BANKS DESERVE THIS REVERSAL?	136 – 143
AMRITA GUPTA	
A STUDY ON UTAUT MODEL FOR SMARTPHONE RELATED TO EDUCATION SECTOR	144 – 151
RINKU DULLOO, PRIYANKA SINGH AND HEMANT KATOLE	
ANALYSIS OF THE REAL WAGE- PRODUCTIVITY RELATIONSHIP IN THE ORGANIZED TEXTILE SECTOR OF INDIA USING THE VECM APPROACH	152 – 164
RAJESH V. SHETGAOKAR	
COMBINED BLOCK CIPHER MODES TO THWART BRUTE FORCE ATTACK IN PROTECTING HOT	165 – 170
V. MUTHU GANESHAN AND S. SIVAGURUNATHAN	
DOES PRESUMED TO SOCIAL MEDIA IN A MANAGEMENT AND TRANSFORMS OF ITS BENEFACTION FOR EMPLOYEE ENGAGEMENT?"	171 – 175
ASHU AND DR. DEEPTI WADERA	
GIVING THE LUXURIOUS TOUCH TO THE AFFORDABILITY: A STUDY OF THE TOTAL BUDGET, THAT THE CLIENTS ARE SPENDING BEHIND VALUE ADDITION AFTER PURCHASING OF AN AFFORDABLE FLAT	176 – 183
AMIT KUMAR A. MEHTA AND DR. TEJAS N. DAVE	
IMPACT OF VACATIONS ON HOTEL SERVICE QUALITY AND CUSTOMER SATISFACTION	184 – 188
YOGESHWAR PRASAD THAPLIYAL, DR MONIKA BANGARI AND DR NEERAJ AGGARWAL	
PERFORMANCE COMPARISION OF STANDARD TOPOLOGY BASED ROUTING PROTOCOLS IN VANETS	189 – 194
RANGISETTI RAJASEKHAR AND K. ANNAPURNA	
POLITICAL LEADERS OF INDIA AND POLITICAL PARTICIPATION ON TWITTER: A CASE STUDY OF CAA PROTEST	195 – 204
JENITH SEKAR AND DR. KULDEEP M SIWACH	
STRUCTURAL ANALYSIS, OPTICAL PROPERTIES AND ANTIBACTERIAL ACTIVITY OF NANOSTRUCTURED ZNAL $_2\mathrm{O}_4$ SYNTHESIZED BY AUTO-IGNITION COMBUSTION TECHNIQUE	205 - 212
MANJU S. JOHN, AMBA PRASAD AND FERGY JOHN	
IMPACT ANALYSIS OF SANDWICH COMPOSITE PLATES MADE OFF HONEYCOMB AND FOAM CORES	213 – 222

MAHESH.C AND RAJESH P NAIR

A STUDY OF THE SATISFACTION LEVEL OF THE STUDENTS IN THE ERA OF VIRTUAL LEARNING	223 – 225
MS. KIRTI SIGTIA AND DR. SHIVA PADME	
ROLE OF HR AND TECHNOLOGY IN MANAGEMENT OF PERFORMANCE OF INDIAN RAILWAYS	226 – 232
DR. SHOBHA DEDHIA	
IMPACT OF MAHARASHTRA GOVERNMENT'S LEARN AND EARN INITIATIVE FOR STUDENT SKILLS DEVELOPMENT IMPLEMENTED IN THE AUTO INDUSTRY BY YASHASWI INSTITUTE OF TECHNOLOGY (YIT)	233 – 240
NARENDRA PATIL AND DR. SUPRIYA PATIL	
STUDY OF PENDING CLAIMS WITH LIFE INSURANCE COMPANIES IN INDIA	241 – 247
DR. RITESH KUMAR SINGHAL	
IMPACT OF ICT IN EDUCATION	248 – 252
MS. DEEPA NATHWANI	
A STUDY OF SUBSCRIBER SATISFACTION TOWARDS THE SERVICES OF TELECOM COMPANIES	253 – 256
VARSHA TANDEL AND DR. GAJANAN WADER	
BEHAVIOR ANALYSIS OF YARN PRODUCTION SYSTEM: A CASE STUDY	257 - 261
VIKAS MODGIL	
FLOOD SUBMERGENCE STUDY FOR SHIPRA RIVER BASIN OF MADHYA PRADESH, INDIA	262 – 269
PARIKSHIT JOSHI AND JAYESH JUREMALANI	
PRESENT STATUS OF MICROFINANCE SECTOR IN INDIA: AN ANALYSIS	270 – 277
ALAKESH KALITA AND CHIRANJEEB BISWAS	
IDENTIFICATION AND INTERPRETATION OF PRATYUTSAARA AND UDDHARA TANTRAYUKTI IN CHARAKA SAMHITA	278 – 281
DR AKHINNA SASIDHARAN AND PROF (DR) JAYASANKAR MUND	
RELATIVE CHARACTERISTICS OF MACHINED SURFACE ROUGHNESS VIS-À- VIS THE THEORITICALLY MODELLED PROFILES	282 – 286
S. NAGAKALYAN, M. RAMALINGA REDDY AND S.V. RANGANAYAKULU	
PROSPECTS ON ECO-TOURISM AS AN ALTERNATIVE LIVELIHOOD WITH SPECIAL REFERENCE TO DIMA HASAO DISTRICT OF ASSAM	287 – 291
BIRAJ DAS AND PAPUL DAS	

ANALYSIS OF DEEP LEARNING BASED ECHO CANCELLATION WITH THE RECURSIVE LEAST SQUARE ALGORITHM HAVING DESCENT COORDINATE ITERATION MODIFICATION	292 - 304
SHAMBHU KUMAR SUMAN, DR. LAXMI SINGH AND DR. SANJEEV GUPTA	
AN ANALYSIS OF HYBRID MAXIMUM POWER POINT TRACKING CONTROLLER FOR PARTIALLY SHADED PHOTOVOLTAIC SYSTEM WITH BOOST AND CUK CONVERTER	305 – 320
ANGKOOR DEEP NATH AND DR. BARNALI GOSWAMI	
PROBLEMS FACED BY MICRO ENTERPRISES IN DIGITAL KERALA: STRATEGIES FOR THEIR SUSTAINED PERFORMANCE IN THE ICT ERA	321 – 326
DR. PRADEEP P, DR. PRASANTH C B, DR. ANEEB K JOSE AND DR. MANOJ P K	
FUEL PRICING POLICY OF INDIA AND THE FACTORS INFLUENCING FUEL PRICING	327 – 334
SRUTHI SREENIVAS AND DR. MANOJ P. K.	
AN AUTOMATED APPROACH FOR RECOMMENDATION OF ONLINE PRODUCTS BASED ON OPINION AND RATINGS	335 – 340
DR. SASIKALA. P AND DR. MARY IMMACULATE SHEELA L	
ICT AND HIGHER EDUCATION IN INDIA	341 – 344
DR. KOEL ROY CHOUDHURY	
SEASONAL VARIATION OF ATMOSPHERIC AEROSOLS OVER INDIAN SUB- ONTINENT USING SATELLITE DATASETS	345 – 353
V. L. KIRANMAI, P. VISHNU PRASANTH AND T. KIRAN KUMAR	
A SIMPLE AND SENSITIVE SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF TAMSULOSIN FROM PHARMACEUTICAL FORMULATION	354 - 358
D. VENKATESWARLU AND E. CHAKRAVARTHY	
EFFICIENT WAY TO MEASURE THE OXYGEN LEVEL IN WATER USING IOT DEVICES	359 – 363
MR. A YUVA KRISHNA, MR VAHIDUDDIN SHARIF AND MR SIVA GANESH MANURI	
EFFICIENT WAY TO APPLY THE DATA MINING PRIMITIVES IN REAL WORLD APPLICATIONS EFFECTIVELY	364 – 369
MR. LOKESH SAI KUMAR DR. K. KOTESWARA RAO	
FACE MASK - ITS IMPACT ON COMMUNITY AND FASHION DURING COVID-19	370 – 378
DR. LAKSHMI M. PALOTI AND DR. NAMRATA M.	
SOFTWARE DEFECT PREDICTION BY USING LRACO-I CLASSIFICATION	379 – 391
M. THANGAVEL AND DR. R. PUGAZENDI	

CONDITIONAL DENSITY BASED STATISTICAL PREDICTION	392 - 406
DR J RAMA DEVI, DR J USA KRANTHI AND DR M VENKATESWARA RAO	
POINT BASED FORGERY DETECTION USING TRANSFER LEARNING	407 – 414
D. NAGA SUDHA AND NIHARIKA	
A REVIEW ON INFLUENCE OF MOLD VIBRATION AND OTHER PROCESS PARAMETERS ON MECHANICAL PROPERTIES OF ALUMINUM ALLOY DURING GRAVITY DIE CASTING	415 – 427
ARIF VARSI*, AKSHAY GUPTA AND YASHSINHKHENGAR	
AN APPLICATION OF M/M/1 QUEUING MODEL IN BANKING SYSTEM	428 - 432
THANESHWAR LAL VERMA AND D. K. GANGESHWER	
STANDARD OF FRENCH LANGUAGE EDUCATION IN NIGERIA (AFRICA)	433 – 438
HUSAIN ABID RIZVI	
INCORPORATING STRATEGIC PLANNING IN MARKETING MANAGEMENT	439 – 452
ANKUR SAINI AND DR. ANUPAMA RAJESH	
THEORIES, PRACTICE AND RESEARCH IN SOCIAL MARKETING: A REVIEW	453 – 468
GAUTAM SRIVASTAVA AND DR SANJEEV BANSAL	
ADDITION OF DIG DAMA DAGED AND AN DAMANG DATE OF THE	
APPLICATION OF BIG DATA-BASED URBAN PLANNING IN TACKLING CLIMATE CHANGE	469 – 478
	469 – 478
CLIMATE CHANGE	469 – 478 479 – 484
CLIMATE CHANGE PRATEEK MANGAL, DR. ANUPAMA RAJESH AND DR. RICHA MISRA	
CLIMATE CHANGE PRATEEK MANGAL, DR. ANUPAMA RAJESH AND DR. RICHA MISRA DIGITALISATION IN EDUCATION	
CLIMATE CHANGE PRATEEK MANGAL, DR. ANUPAMA RAJESH AND DR. RICHA MISRA DIGITALISATION IN EDUCATION MS. SHRUTI SINGH AND DR. SHUCHI GOEL	479 – 484
CLIMATE CHANGE PRATEEK MANGAL, DR. ANUPAMA RAJESH AND DR. RICHA MISRA DIGITALISATION IN EDUCATION MS. SHRUTI SINGH AND DR. SHUCHI GOEL COVID-19 UNLOCKS REVENGE TOURISM: THE CASE OF INDIA	479 – 484
CLIMATE CHANGE PRATEEK MANGAL, DR. ANUPAMA RAJESH AND DR. RICHA MISRA DIGITALISATION IN EDUCATION MS. SHRUTI SINGH AND DR. SHUCHI GOEL COVID-19 UNLOCKS REVENGE TOURISM: THE CASE OF INDIA SHRUTI AUPLISH AND PROF. KAVITA CHAUHAN	479 – 484 485 – 490
CLIMATE CHANGE PRATEEK MANGAL, DR. ANUPAMA RAJESH AND DR. RICHA MISRA DIGITALISATION IN EDUCATION MS. SHRUTI SINGH AND DR. SHUCHI GOEL COVID-19 UNLOCKS REVENGE TOURISM: THE CASE OF INDIA SHRUTI AUPLISH AND PROF. KAVITA CHAUHAN LEGALITIES IN HR TECHNOLOGICAL INTEGRATIONS	479 – 484 485 – 490
CLIMATE CHANGE PRATEEK MANGAL, DR. ANUPAMA RAJESH AND DR. RICHA MISRA DIGITALISATION IN EDUCATION MS. SHRUTI SINGH AND DR. SHUCHI GOEL COVID-19 UNLOCKS REVENGE TOURISM: THE CASE OF INDIA SHRUTI AUPLISH AND PROF. KAVITA CHAUHAN LEGALITIES IN HR TECHNOLOGICAL INTEGRATIONS SUKANYA DUTTA AND DR. SEEMA MAM A THEMATIC ANALYSIS OF E-LEARNING EXPERIENCES DURING THE COVID-	479 – 484 485 – 490 491 – 496
CLIMATE CHANGE PRATEEK MANGAL, DR. ANUPAMA RAJESH AND DR. RICHA MISRA DIGITALISATION IN EDUCATION MS. SHRUTI SINGH AND DR. SHUCHI GOEL COVID-19 UNLOCKS REVENGE TOURISM: THE CASE OF INDIA SHRUTI AUPLISH AND PROF. KAVITA CHAUHAN LEGALITIES IN HR TECHNOLOGICAL INTEGRATIONS SUKANYA DUTTA AND DR. SEEMA MAM A THEMATIC ANALYSIS OF E-LEARNING EXPERIENCES DURING THE COVID- 19: AN ENTREPRENEURIAL STUDENTS PERSPECTIVE	479 – 484 485 – 490 491 – 496
CLIMATE CHANGE PRATEEK MANGAL, DR. ANUPAMA RAJESH AND DR. RICHA MISRA DIGITALISATION IN EDUCATION MS. SHRUTI SINGH AND DR. SHUCHI GOEL COVID-19 UNLOCKS REVENGE TOURISM: THE CASE OF INDIA SHRUTI AUPLISH AND PROF. KAVITA CHAUHAN LEGALITIES IN HR TECHNOLOGICAL INTEGRATIONS SUKANYA DUTTA AND DR. SEEMA MAM A THEMATIC ANALYSIS OF E-LEARNING EXPERIENCES DURING THE COVID- 19: AN ENTREPRENEURIAL STUDENTS PERSPECTIVE SUNAYANA AND SHADAB MOHD KHAN	479 – 484 485 – 490 491 – 496 497 – 509
CLIMATE CHANGE PRATEEK MANGAL, DR. ANUPAMA RAJESH AND DR. RICHA MISRA DIGITALISATION IN EDUCATION MS. SHRUTI SINGH AND DR. SHUCHI GOEL COVID-19 UNLOCKS REVENGE TOURISM: THE CASE OF INDIA SHRUTI AUPLISH AND PROF. KAVITA CHAUHAN LEGALITIES IN HR TECHNOLOGICAL INTEGRATIONS SUKANYA DUTTA AND DR. SEEMA MAM A THEMATIC ANALYSIS OF E-LEARNING EXPERIENCES DURING THE COVID- 19: AN ENTREPRENEURIAL STUDENTS PERSPECTIVE SUNAYANA AND SHADAB MOHD KHAN EFFECTIVENESS OF ONLINE MENTORING TOOLS	479 – 484 485 – 490 491 – 496 497 – 509

CONCEPTUAL STUDY ON "STRATEGIC HR & AGILITY"	527 - 530
PROF (DR) MADHURI SANAP	
CYBERCRIME AND DIGITAL MONEY LAUNDERING	531 – 535
SHOBHA BHAVE AND DR. KISHOR NIKAM	
IOT BASED DRIVER ALERTNESS SYSTEM	536 – 541
VIRAJ Y. RANA, PROF. (DR.) TEJAS V. SHAH AND PROF. (DR.) DEEPALI H. SHAH	
A STUDY OF FINANCIAL INCLUSION THROUGH INSURANCE SCHEME AND POSTAL SERVICES OF STREET VENDORS IN KALYAN DOMBIVLI MUNICIPAL CORPORATION AREA	542 – 547
SONALI ASHUTOSH SATHE AND CA DR. KISHORE SHYAMLAL PESHORI	
EFFECTIVENESS OF EXPONENTIAL SMOOTHING ON PRODUCTION FORECASTING OF HORTICULTURE CROPS IN INDIA	548 – 553
VAIBHAV KULKARNI AND RITU SIDDHARTHA CHAKRABORTY	
A STUDY OF CONSUMERS' BEHAVIOUR TOWARDS DIGITAL PAYMENT IN KALYAN CITY	554 – 560
DR. SUNITA P. GAIKWAD	
EFFECT OF VARIOUS SURFACES OF PLYOMETRIC TRAINING ON EXPLOSIVE POWER AND REACTION TIME AMONG TARGETBALL MEN PLAYERS	561 – 563
DR. SONU SHARMA AND DR. PANKAJA PANDEY	
PULSE MONITORING SYSTEM USING LIGHT FIDELITY (LI-FI)	564 – 570
SALMA FAUZIA	
EVALUATION OF NUTRITIONAL VALUE OF WHEAT FED TO COW AND COLLECTED FROM ITS DUNG FOR DIET IN TYPE II DIABETES MELLITUS	571 – 575
SIVAJOTHY S, JAYASHANKAR MUND AND SWAPNIL GOYAL	
A STUDY ON ICT KNOWLEDGE OF B.ED STUDENT TEACHERS IN RELATION TO ACADEMIC ACHIEVEMENT	576 – 580
PRAVEEN KUMAR T D AND DR. PANNEER SELVAM S.K.	
A REVIEW ON APPLICATIONS OF STOCHASTIC FRONTIER PRODUCTION FUNCTION ON TEXTILE INDUSTRIES	581 – 584
POLI BORUAH	
THE DAMSEL IN DISTRESS IN ASSAMESE FOLKTALES: A CLOSE READING OFLAKSHMINATHBEZBAROA'S SHORT STORIES"TEJEEMOLA" AND "CHAMPAWATI"	585 – 588
SHILPI PRIYA SAIKIA	
ANALYSING MISS MARPLE AS A SPINSTER SLEUTH/SOCIAL CRITIC OF THE VICTORIAN PERIOD	589 – 593

SRUTHI S. KAKKATTIL

TRACING THE EVOLUTION OF MISS HARRIET VANE, THE SCHOLAR SLEUTH IN SAYER'S STRONG POISON	594 – 598
SRUTHI S. KAKKATTIL	
DESIGN AND PERFORMANCE ANALYSIS OF 8/6 RADIAL FIELD SWITCHED RELUCTANCE MOTOR FOR ELECTRIC VEHICLE APPLICATION	599 – 611
NIKUNJ R PATEL AND JITEN K CHAVDA	
SIMULATION ANALYSIS OF DIFFERENT OPERATING MODES OF ZETA-SEPIC CONVERTER FOR ELECTRICAL VEHICLES	612 – 621
DR. NIKUNJ R PATEL, MR. JITEN. K. CHAVDA, MR. SARSVAT N. SHIVANI, MR. ANKIT SAGATHIYA AND MR. RONAK BABARIYA	
ARE WEBINARS AN EFFECTIVE TOOL FOR KNOWLEDGE DISSEMINATION IN COVID ERA? A SURVEY-BASED STUDY IN HIGHER EDUCATIONAL INSTITUTIONS	622 – 632
MS. SHANU JAIN, DR. POOJA SHARMA AND AYUSH DUBE	
COMMUNITY PARTICIPATION IN MANAGEMENT OF COVID-19: A CASE STUDY FROM JODHPUR RAJASTHAN	633 - 636
NOOPUR PUROHIT	
REVEALED COMPARATIVE ADVANTAGE OF TRADE BETWEEN INDIA AND BANGLADESH: AN ANALYSIS	637 – 642
DR. ARIFA TABASSUM	
IMPORTANCE OF HAPPINESS IN LIFE	643 – 646
DR. JATINDER KAUR JUNEJA	
STUDY OF TECHNO PEDAGOGICAL COMPETENCY AND ICT TEACHING ATTITUDE IN RELATION TO TYPE OF SCHOOL	647 – 653
DR RUCHI BHARGAVA	
PERFORMANCE ANALYSIS OF SHARIAH-COMPLAINT MUTUAL FUNDS IN INDIA-A STUDY	654 – 660
DR. SYED KHAJA SAFIUDDIN AND MD. MERAJ HASAN	
INTERVAL VALUED INTUITIONISTIC FUZZY DYNAMIC PROGRAMMING APPROACH OF CAPITAL BUDGETING PROBLEM	661 - 667
M. PRIYANKA JAGADEESWARAN, M. RUTHARA AND G. UTHRA	

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A STUDY OF SUBSCRIBER SATISFACTION TOWARDS THE SERVICES OF TELECOM COMPANIES

VARSHA TANDEL AND DR. GAJANAN WADER

ABSTRACT

The satisfaction of subscribers is the most significant component for telecom companies to gain a competitive advantage from the market. The present study is undertaken to identify the level of satisfaction of subscribers with the services provided by their telecom service provider. This study also describes the overall satisfaction of subscribers towards their service provider. The result showed that selected factors greatly influence the level of satisfaction of subscribers with the services provided by telecom service providers.

Keywords – Subscriber's satisfaction, telecom companies, service provider.

1. INTRODUCTION

The telecom industry is one of the booming industries and it gives a higher contribution to the GDP of an Indian economy. With the need and requirement of information in day-to-day activities, the telecom industry is also flourishing. To retain the existing subscribers and to attract new customers, the telecom service provider is also taking efforts by offering the latest technology and advanced features at affordable prices to their customers. Therefore, customer satisfaction is the crucial key for the companies to maintain balance in the industry in respect of the market share. Satisfied customers will help the companies to increase their revenue and business. On the other hand, dissatisfied customer will search for the alternatives and will move to another service provider.

2. OBJECTIVE OF THE STUDY

- 1. To study the satisfaction level of subscribers towards the services provided by telecom service providers.
- 2. To study the overall satisfaction level of subscribers towards their service provider.

3. REVIEW OF THE LITERATURE

- 3.1 Shebin Mohammed Ali (2006), in his study titled "To study the Impact of Customer Satisfaction on Customer Loyalty in mobile telecom at Ernakulam District" analysed that customer loyalty plays an important role to retain the existing customer as well as to enhance their business. It leads to repurchases of goods and services. The Customer loyalty is dependent upon the satisfaction of customers. The companies should concentrate on the changing needs and habits of their customer. They should not only come up with advanced features and updated technology but also should provide their services at reasonable prices to satisfy their customers.
- 3.2 **Arpan Kumar Kar (2019),** in his paper, determined that the revenue of the business organization is highly depend upon the satisfaction of their customer. A good quality of services by services not only create a favourable impact on the customer but also enhance their satisfaction level. Therefore, the telecom service provider should undertake research activities to fulfil the changing demands of their customers.
- 3.3 **Joseph Kofi Nkuah** (2015), in his study titled "An Evaluation of Customer Satisfaction Levels among the Various Mobile Telecommunication Networks in the Wa Municipality" explained that the staff of organisation should be properly trained to handle the complaints. They should have adequate skills to solve the queries of customers. Services should be provided at reasonable and affordable prices as compared to other service provider, so that customer will not shift to another service provider. Management should plan for marketing strategies to satisfy their customer as per their changing requirements.
- 3.4 Marna Sarmento Baptista, Cristina Galamba Marreiros, and Maria Raquel Lucas (2019), in their study titled "The Quality of Customer Service and the Level of Consumer Satisfaction in Timor Leste Telecommunications", concluded that the satisfaction level of customers is more important than any material things like office hours of an employee, promotional materials, etc. and customers are greatly satisfied with the kind and helpful nature of employees of an organization.

4. NEED OF THE STUDY

Nowadays, companies are facing tough competition from each other in the telecom sector. With changing time, customers' requirements also changed. Therefore, the companies need to find out the satisfaction level of the

customers in respect of their services on a time-to-time basis and accordingly try to improve the quality of their services.

5. SCOPE OF THE STUDY

Telecom companies can use the collected information as feedback. The service provider can use this data to improve the quality of their services and the present study can be extended to different cities or states.

6. LIMITATION OF THE STUDY

The area for this research study was restricted to the subscribers of the Mumbai city. The present study concentrates on the selected factors in the recent time, in the future opinion of customers may change due to the advanced and latest features of services and collected data may be biased due to the behaviour of human being.

7. RESEARCH METHODOLOGY

Descriptive and analytical method of research is used for the study. Population consists of subscribers of the telecom companies in the Mumbai city. Sample includes 100 respondents from the city of Mumbai. The data was collected from the subscribers of Tata Teleservices (MAH) Ltd., Bharti Airtel Ltd., Reliance communication Ltd., Vodafone Idea Ltd and other service provider. Primary data collected for this study by the way of Survey method. Structured questionnaire method was used for the collection of data from the subscribers.

8. FINDINGS

Table 1 shows out of the total respondents, 46% were male and, 54% were female. Table 2 indicates that, out of 100 respondents, the majority of the respondents were from the age group of up to 20 years. Table 3 represents that, 90% of respondents were students. Table 4 shows, the services of Tata Teleservices (MAH) Ltd., Bharati Airtel Ltd., Reliance Communication Ltd., Vodafone Idea Ltd., and others were used by 1%, 20%, 41%, 19%, and 19% of respondents respectively. Table 5 indicates that 80% of respondents preferred pre-paid services and 20% of respondents preferred post-paid services. Table 7, 8, 9, and 10 shows that, majority of respondents were satisfied with the services of availability of network in their area, recharge plans, customer care services, and availability of network while traveling. Tables 11, 12, and 13 show that majority of respondents were highly satisfied with the services of online recharge, 2G, 3G, and 4G internet facility, and full talk time. Tables 6, 14, and 15 indicate that majority of respondents were neutral in respect of services such as connection charges, validity, and availability of recharge coupons by retailers. Table 16-20 represents the overall satisfaction of subscribers towards their service provider. Table 19 indicates that the majority of respondents were neutral and table 20 shows that, majority of respondents were highly satisfied with their service provider.

9. RECOMMENDATION

The survey shows that companies should reduce the connection charges to attract the maximum number of customers. They should undertake research activities in respect of technology and spread their network over the globe to solve the problem of availability of network in local residence area and during traveling. They should provide proper training to their customer support team to handle customer queries effectively and efficiently. The service provider should come up with affordable recharge plans. They should undertake efforts to enhance the services of online recharge. They should adopt the modern and latest technology to improve the quality of internet services. The service provider should also look in the area of talk time, validity, and availability of recharge coupons by the retailer for the benefit of subscribers.

10. CONCLUSION

The study describes that, the level of satisfaction of subscriber is greatly influenced by the various services offered by the service provider. The main objective of the study is to identify the satisfaction level of subscribers towards services provided by telecom companies. In case of services such as recharge plans, customer care services, online recharge services, availability of network while traveling, internet facility, validity and talk time by service provider have a positive and strong impact on the subscribers. Therefore, as per the changing environment, the telecom service provider needs to identify the increasing demands of their subscribers, and accordingly, they should plan and frame innovative strategies so that they can meet the demands of their subscribers in order to satisfy them.

11. REFERENCES

1) Shebin Mohammed Ali (2020), "To study the Impact of Customer Satisfaction on Customer Loyalty in mobile telecom at Ernakulam District", Alochana Chakra Journal, Volume IX, Issue V, Pg – 7887-7904.

- Joseph Kofi Nkuah, Abigail Essel and Lydia Faith Nsubuga (2015), "An Evaluation of Customer Satisfaction Levels among the Various Mobile Telecommunication Networks in the Wa Municipality", International Journal of Research in Business Studies and Management, Volume 2, Issue 4, Pg – 1-15.
- Marna Sarmento Baptista, Cristina Galamba Marreirosand Maria Raquel Lucas (2019), "The Quality of Customer Service and the Level of Consumer Satisfaction in Timor Leste Telecommunications", Asian Business Review, Volume 9, Number 3, Pg – 91-100.
- https://www.researchgate.net/publication/335996970_Determinants_of_Customer_Satisfaction_in_Teleco mmunication

APPENDIX -

HS

15

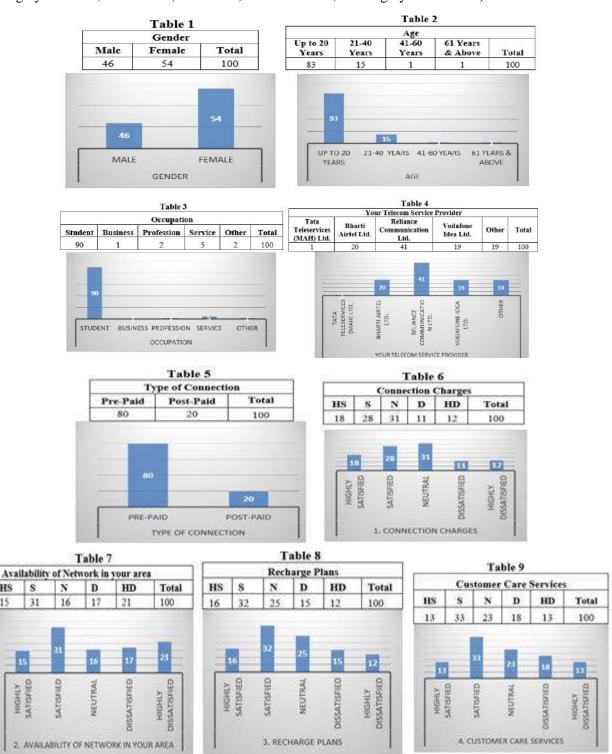
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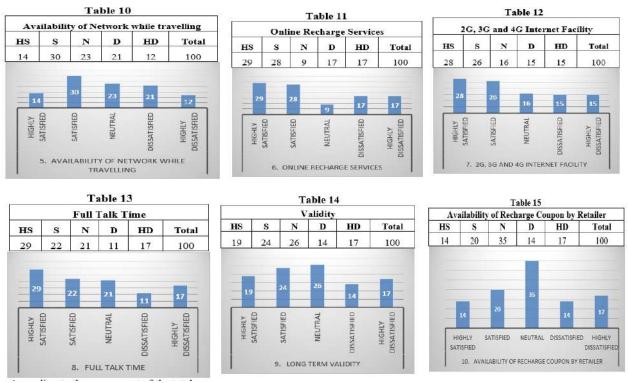
31

SATISFIED

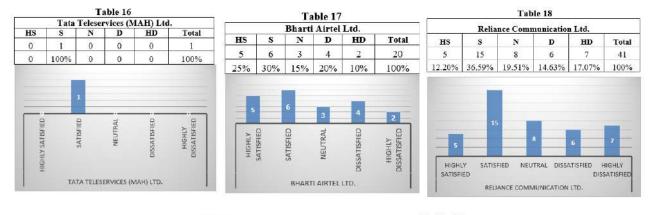
HIGHLY

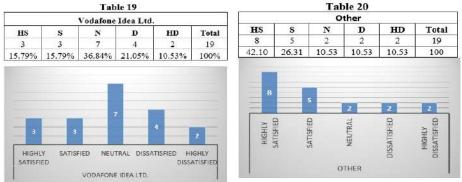
(HS-Highly Satisfied, S-Satisfied, N-Neutral, D-Dissatisfied, HD-Highly Dissatisfied)





Overall Satisfaction of Subscribers towards Service Provider





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